

# Survey Report

## 2025-3

## Survey Specimens

The homogeneity and stability of all specimens were checked before and/or during shipment and no irregularities were noted. The suitability tests were performed by the laboratories of the Universitätsspital Zürich (University Hospital Zurich) (<http://www.uzl.usz.ch/>). The following survey specimens were produced specifically for MQ by a sub-contractor:  
B2 Uricult, H4 Parasitic Hematology, K14 tumor marker

## Determination of target values

For each target value, the type of determination per ISO17043: 2010 B2.1 is indicated (column "type"):

- a Value known due to production.
- b Certified reference value for use with special specimens
- c Reference value determined by analysis
- d Consensus values of expert laboratories
- e Consensus values of the participants

For methods groups with more than 9 participants, consensus values of the participants ("e") are generally determined. In order to calculate the target values, we use the mean value of the method group. Values that differ more than 1.5 times the QUALAB-tolerance are outliers and are not used to calculate the target value. Starting point for the elimination of outliers are the values of our suitability tests. In order to provide all participants with target values that are as meaningful as possible, other methods may also be applied for smaller method groups.

## Uncertainty of the determined target values

The standard uncertainty (ux) is calculated using the following formula (ISO13528):

$$u_x = (\text{target value}/100) * (1.25/\text{square root of "number of participants"}) * \%CV$$

- $u_x$  has the same unit as the target value
- $u_x$  can be compared with the standard deviation of the participants' collective ( $SD = \text{target value} * \%CV/100$ )
- For participant numbers >18, the standard uncertainty ( $u_x$ ) is significantly lower than the scatter of the collective participants and can be neglected.

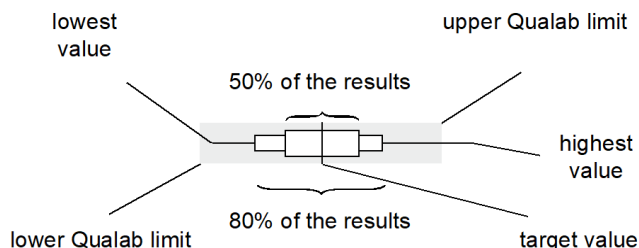
## QUALAB and MQ tolerances

For all mandatory analyzes, QUALAB tolerances are used ([www.qualab.ch](http://www.qualab.ch), external quality control). For non-mandatory analyzes, the tolerances are specified by MQ's survey specimen leader.

If the determined uncertainty,  $u_x$ , of the target value is greater than 15% of the QUALAB or MQ tolerance, the letter indicating the type of target detection is marked with an additional star (example "e\*"). Thereby, we are alerting the participants to the fact that the uncertainty of the target value can have an impact on the evaluation.

## Graphics

The results are shown graphically as follows:

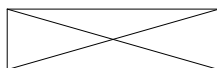


## Comparison of Devices

The data in this report allows you to compare the performance of different devices. However, remember to consider the following:

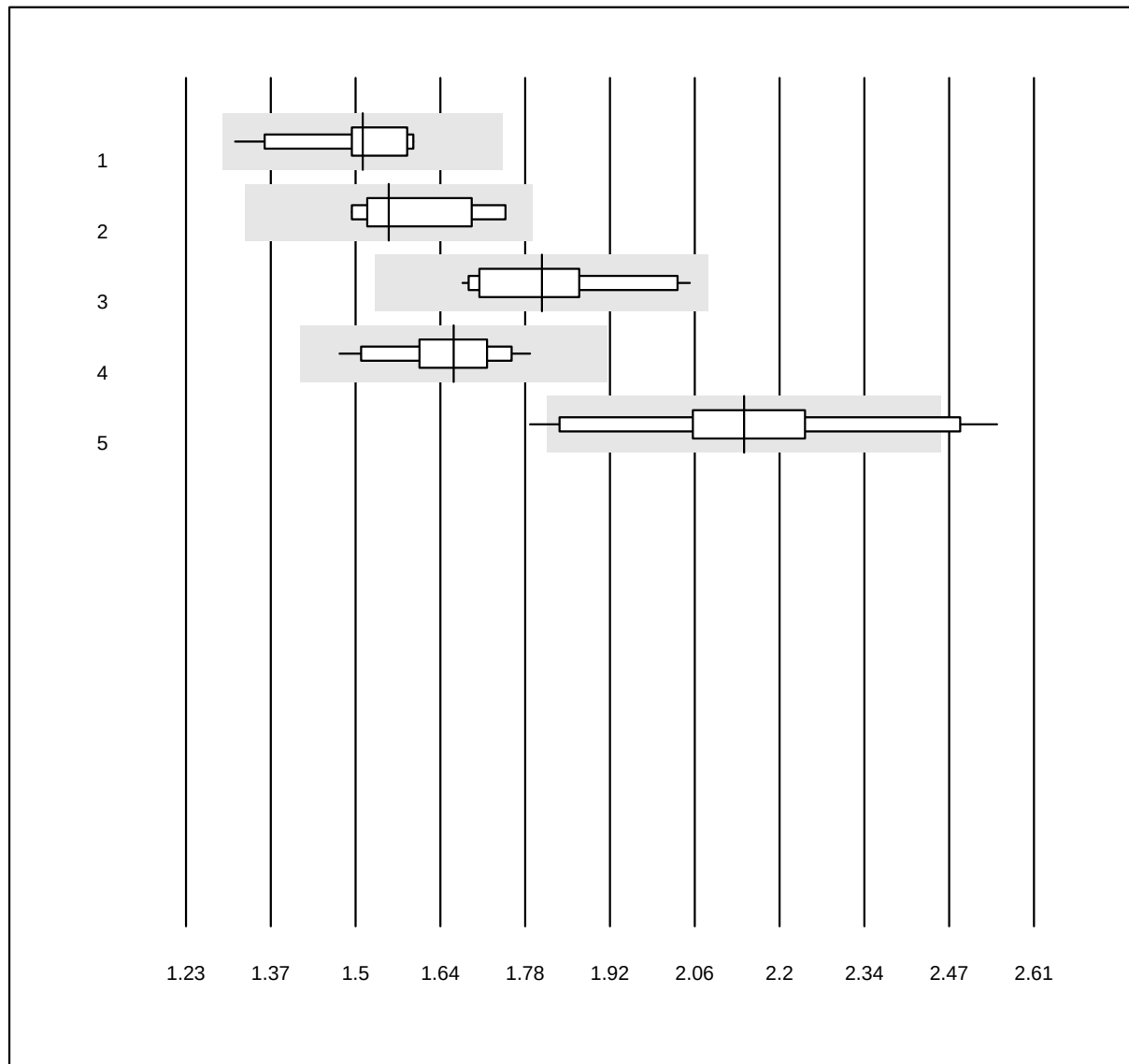
- The chemical control K1 is a ready-to-use commercial control serum. Even if the specimen is of human origin, it is possible that matrix effects occur. These are device-specific and result in different target values.
- Only one specimen was measured. Since the scatter of the results is dependent on the nature of the specimen (matrix effects) and on the signal strength, the determined coefficient of variations (CV in %) cannot be applied generally.
- A large number of runaways is due to administrative errors (wrong unit, results mixed up) or to operator errors (wrong sample, not correctly taken up in solution, not mixed well) and has nothing to do with the type of device.

Zurich, 30.09.2025



Dr. R.Fried  
Survey Director

## INR VKA



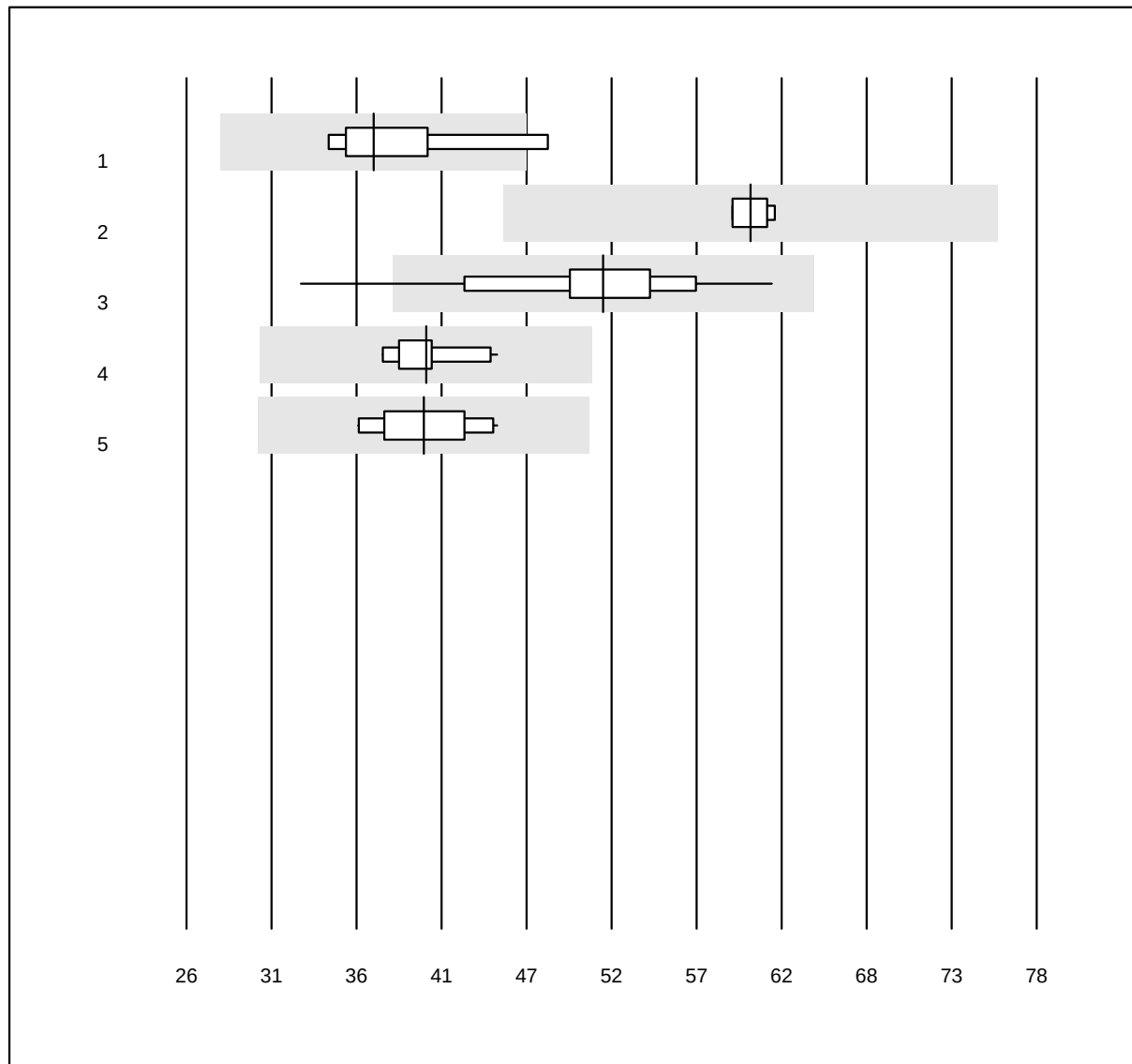
QUALAB Toleranz: 15%

INR VKA (INR)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Innovin           | 15    | 86.7  | 0.0       | 13.3      | 1.52         | 5.3  | e    |
| 2 Neoplastin Plus   | 9     | 100.0 | 0.0       | 0.0       | 1.56         | 5.8  | e*   |
| 3 Neoplastin R      | 16    | 87.5  | 0.0       | 12.5      | 1.81         | 6.2  | e    |
| 4 Recombiplastin 2G | 16    | 87.5  | 0.0       | 12.5      | 1.67         | 5.0  | e    |
| 5 STA-NeoPTimal     | 12    | 83.3  | 16.7      | 0.0       | 2.14         | 9.0  | e*   |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Activated Prothrombin Time

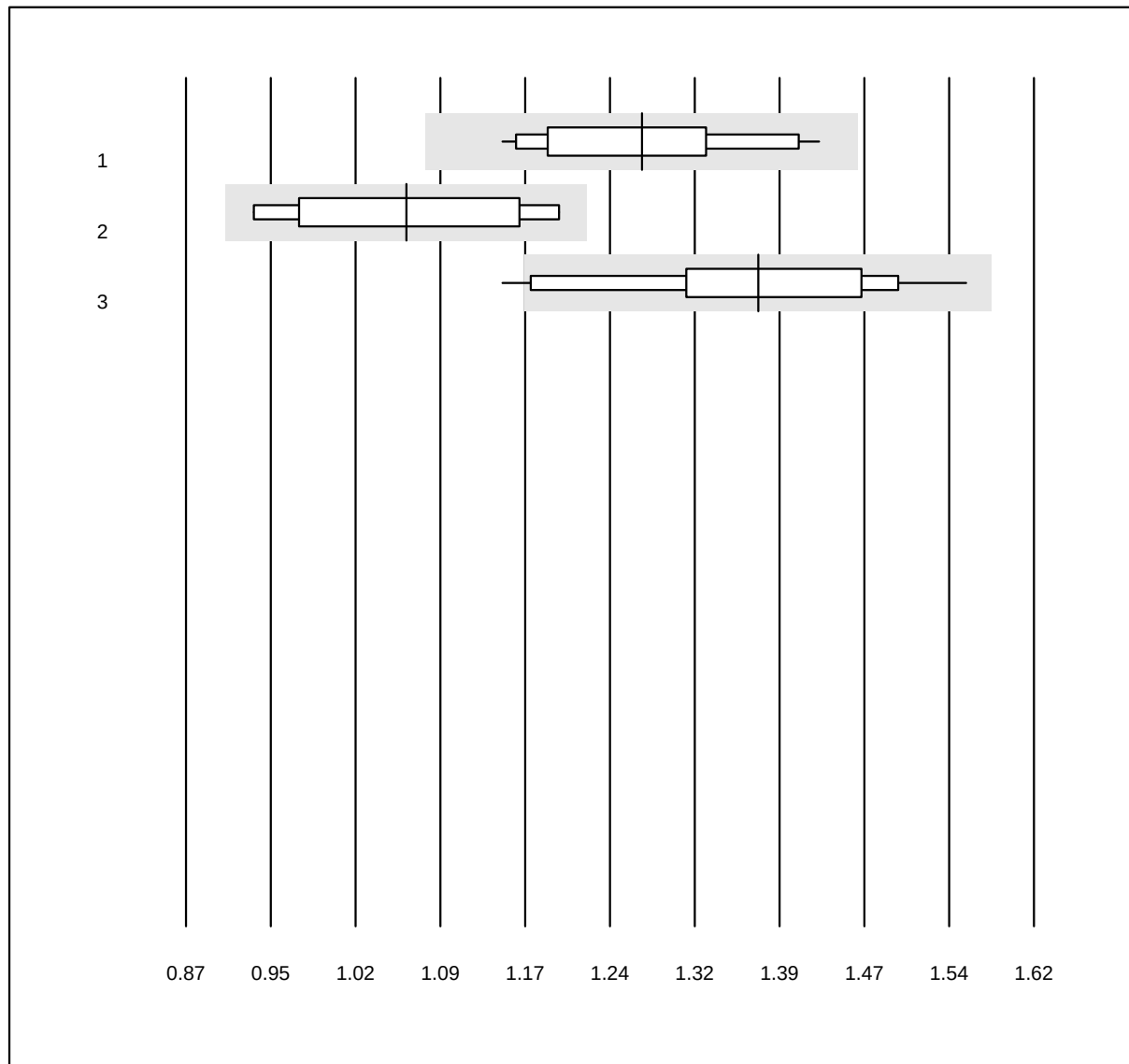


QUALAB Toleranz: 25%

Activated Prothrombin Time  
(Sek)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Actin FS        | 6     | 100.0 | 0.0       | 0.0       | 37.5         | 10.4 | e*   |
| 2 Pathromtin SL   | 6     | 100.0 | 0.0       | 0.0       | 60.5         | 1.8  | e    |
| 3 Stago/STA       | 25    | 96.0  | 4.0       | 0.0       | 51.5         | 11.2 | e    |
| 4 aPTT-SP         | 10    | 100.0 | 0.0       | 0.0       | 40.7         | 4.9  | e    |
| 5 andere Methoden | 11    | 100.0 | 0.0       | 0.0       | 40.5         | 6.8  | e    |

## Fibrinogen OA



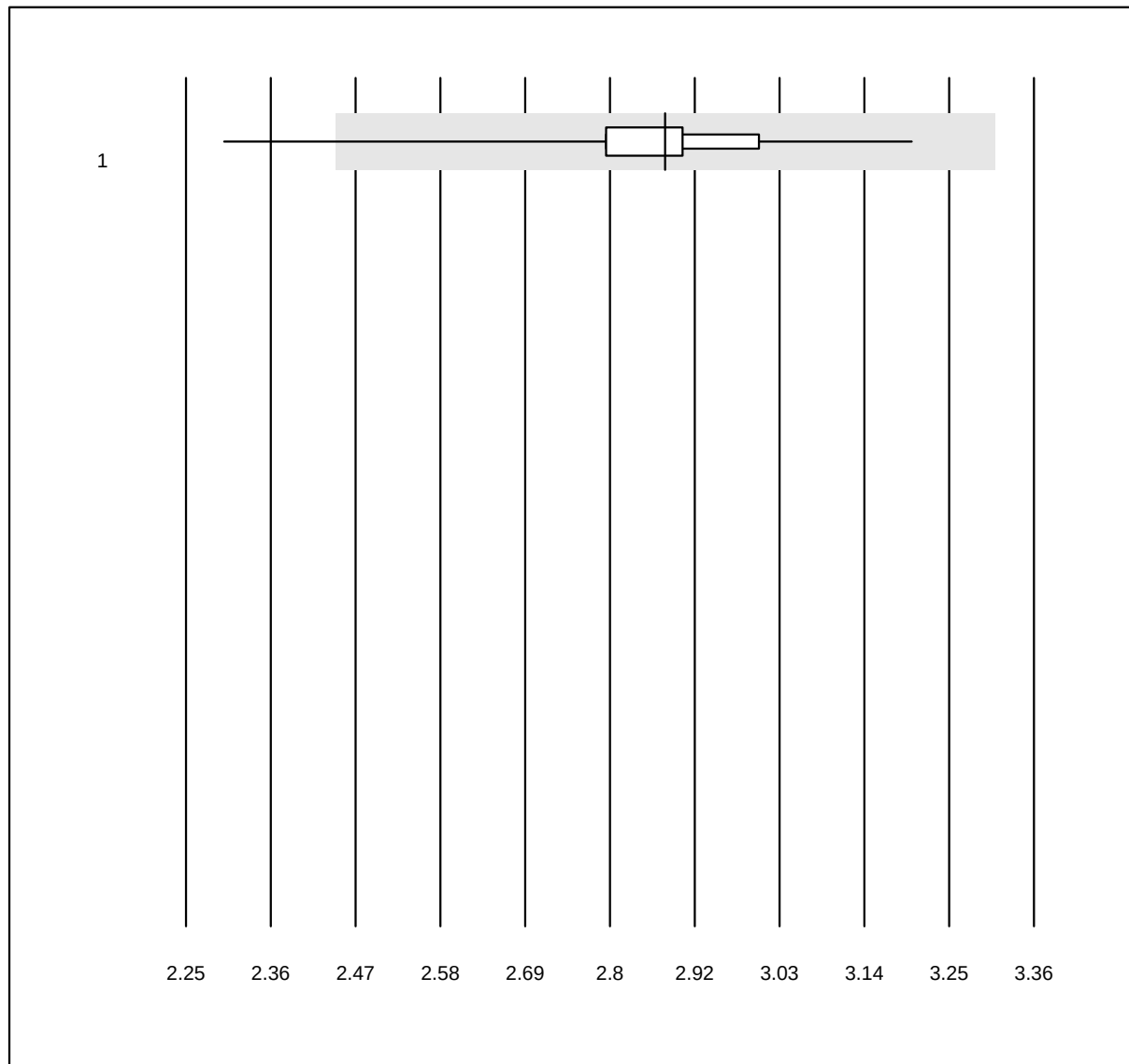
QUALAB Toleranz: 15%

Fibrinogen OA (g/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Fibrinogen Q.F.A. | 15    | 100.0 | 0.0       | 0.0       | 1.27         | 7.1  | e*   |
| 2 Siemens Thrombin  | 9     | 100.0 | 0.0       | 0.0       | 1.06         | 9.8  | a*   |
| 3 Stago/STA         | 24    | 91.7  | 8.3       | 0.0       | 1.38         | 8.0  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## INR CoaguChek

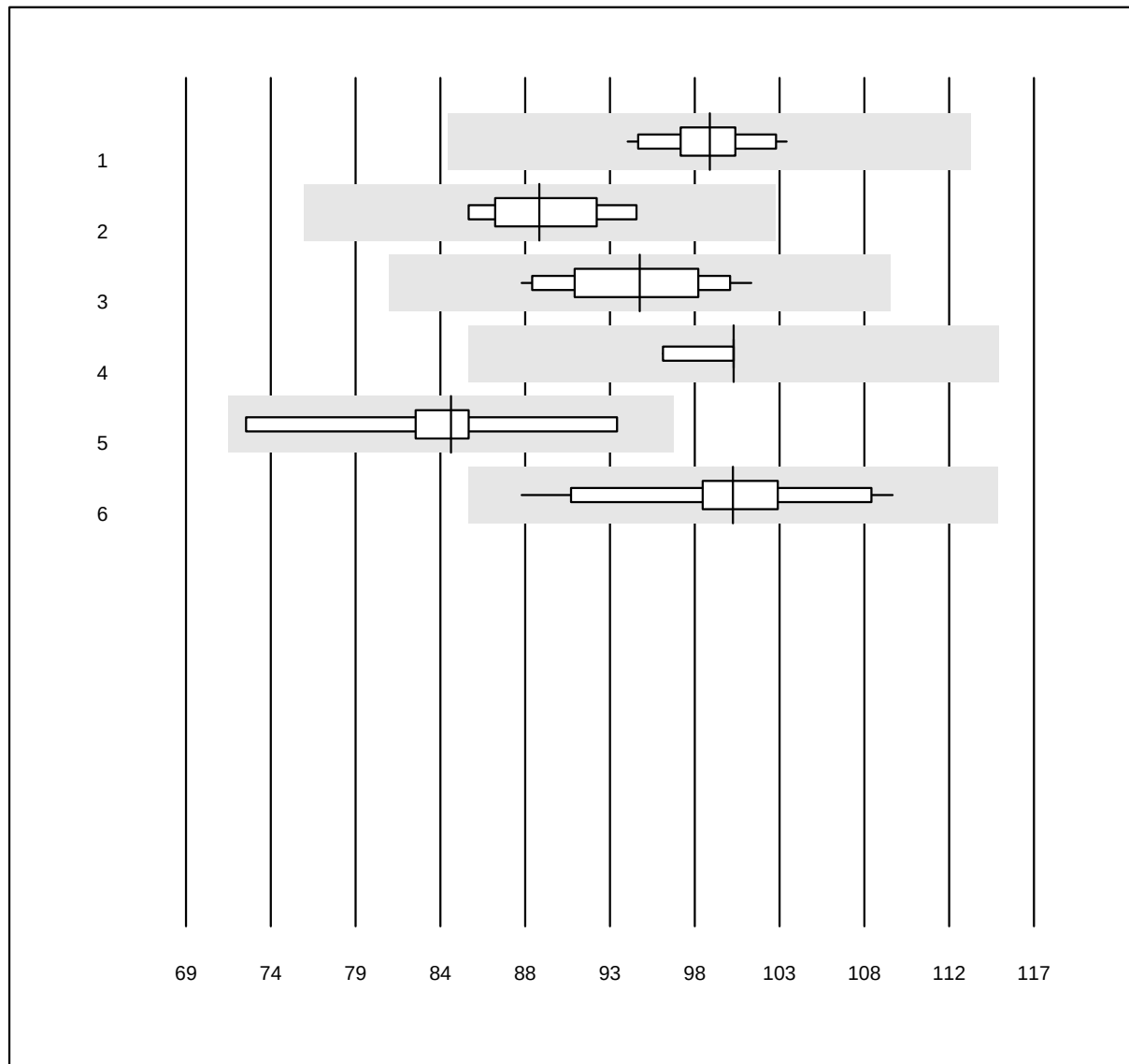


QUALAB Toleranz: 15%

INR CoaguChek (INR)

| No. Methode |                  | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|------------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | CoaguChek Pro II | 979   | 97.0 | 1.3       | 1.6       | 2.9          | 4.3  | e    |

## Prothrombin time NT

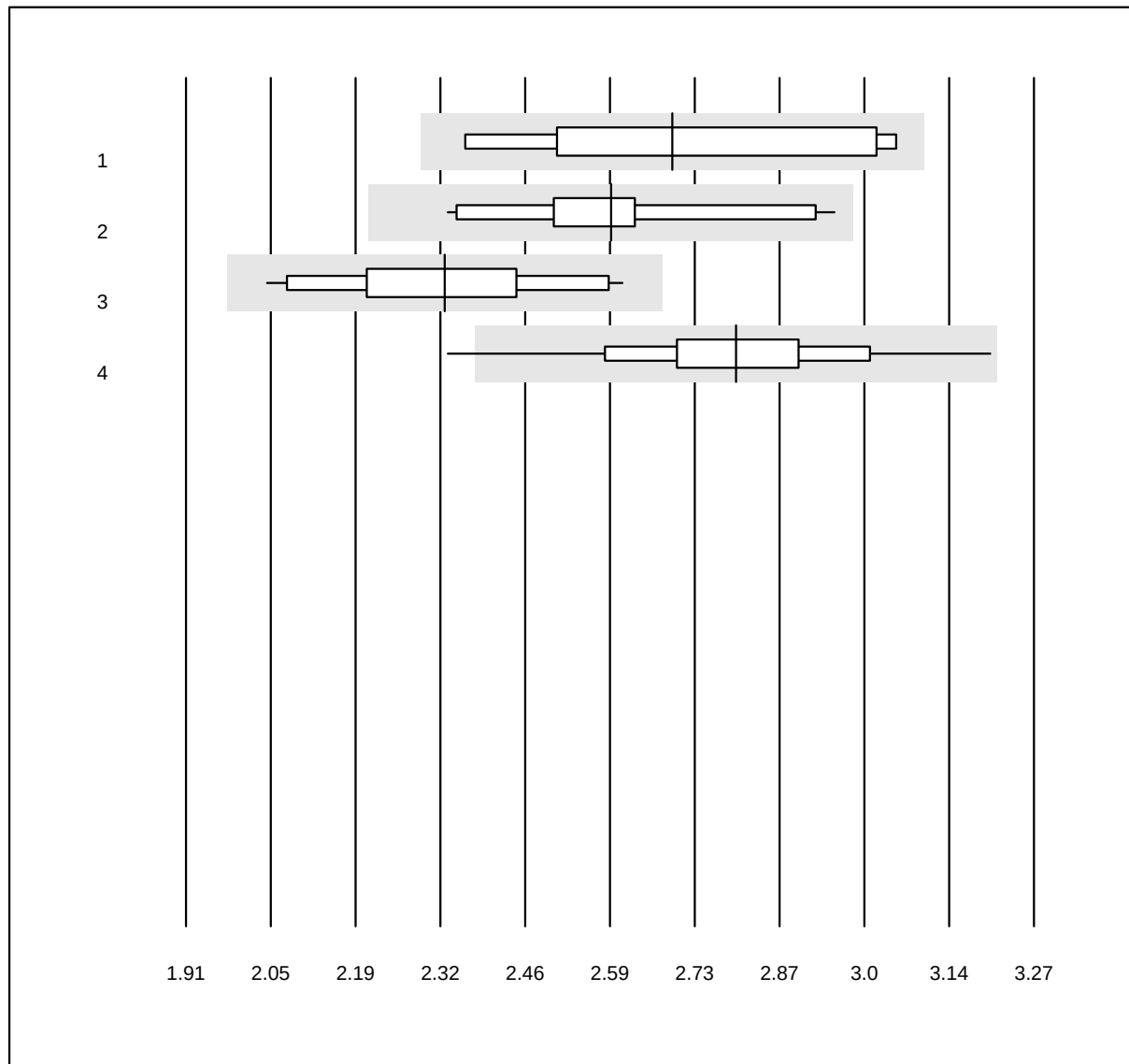


QUALAB Toleranz: 15%

Prothrombin time NT (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Innovin           | 15    | 100.0 | 0.0       | 0.0       | 99           | 2.5  | e    |
| 2 Neoplastin Plus   | 4     | 100.0 | 0.0       | 0.0       | 89           | 3.3  | e    |
| 3 Neoplastin R      | 15    | 100.0 | 0.0       | 0.0       | 95           | 4.3  | e    |
| 4 Recombiplastin 2G | 9     | 100.0 | 0.0       | 0.0       | 100          | 1.3  | e    |
| 5 STA-NeoPTimal     | 7     | 100.0 | 0.0       | 0.0       | 84           | 6.3  | e*   |
| 6 andere Methoden   | 13    | 100.0 | 0.0       | 0.0       | 100          | 5.2  | e    |

## Fibrinogen N



QUALAB Toleranz: 15%

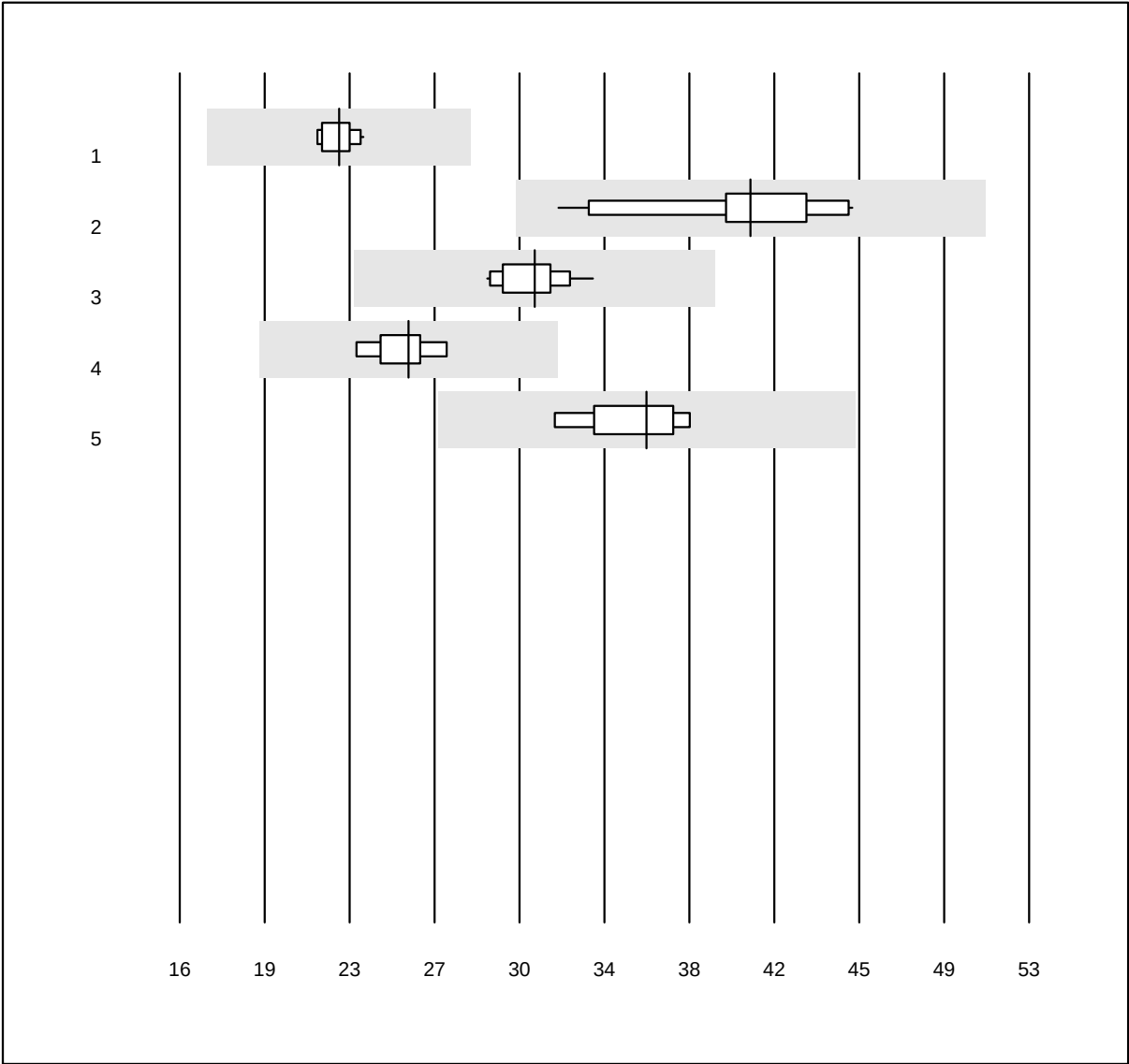
Fibrinogen N (g/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Fib Clauss (IL)   | 6     | 100.0 | 0.0       | 0.0       | 2.69         | 9.3  | e*   |
| 2 Fibrinogen Q.F.A. | 13    | 84.6  | 0.0       | 15.4      | 2.59         | 6.6  | e*   |
| 3 Siemens Thrombin  | 11    | 100.0 | 0.0       | 0.0       | 2.33         | 6.9  | a*   |
| 4 Stago/STA         | 22    | 95.5  | 4.5       | 0.0       | 2.79         | 6.3  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



aPTT N

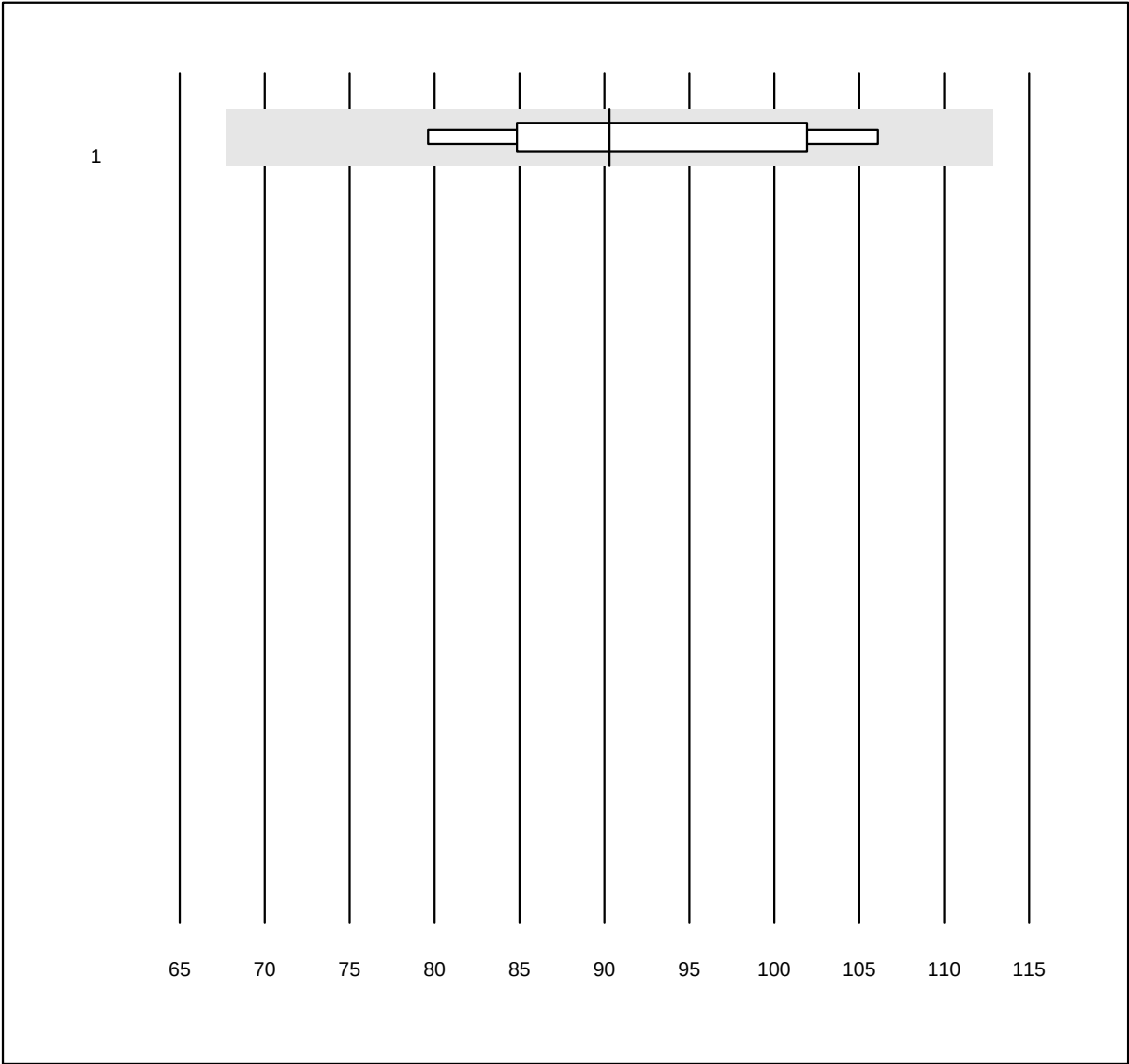


QUALAB Toleranz: 25%

aPTT N (Sek)

| No. Methode |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Actin FS        | 11    | 100.0 | 0.0       | 0.0       | 22.9         | 2.8  | e    |
| 2           | Pathromtin SL   | 11    | 100.0 | 0.0       | 0.0       | 40.9         | 8.4  | e    |
| 3           | Stago/STA       | 20    | 100.0 | 0.0       | 0.0       | 31.5         | 4.2  | e    |
| 4           | aPTT-SP         | 7     | 85.7  | 0.0       | 14.3      | 26.0         | 4.4  | e    |
| 5           | andere Methoden | 5     | 100.0 | 0.0       | 0.0       | 36.3         | 5.4  | e    |

Faktor V

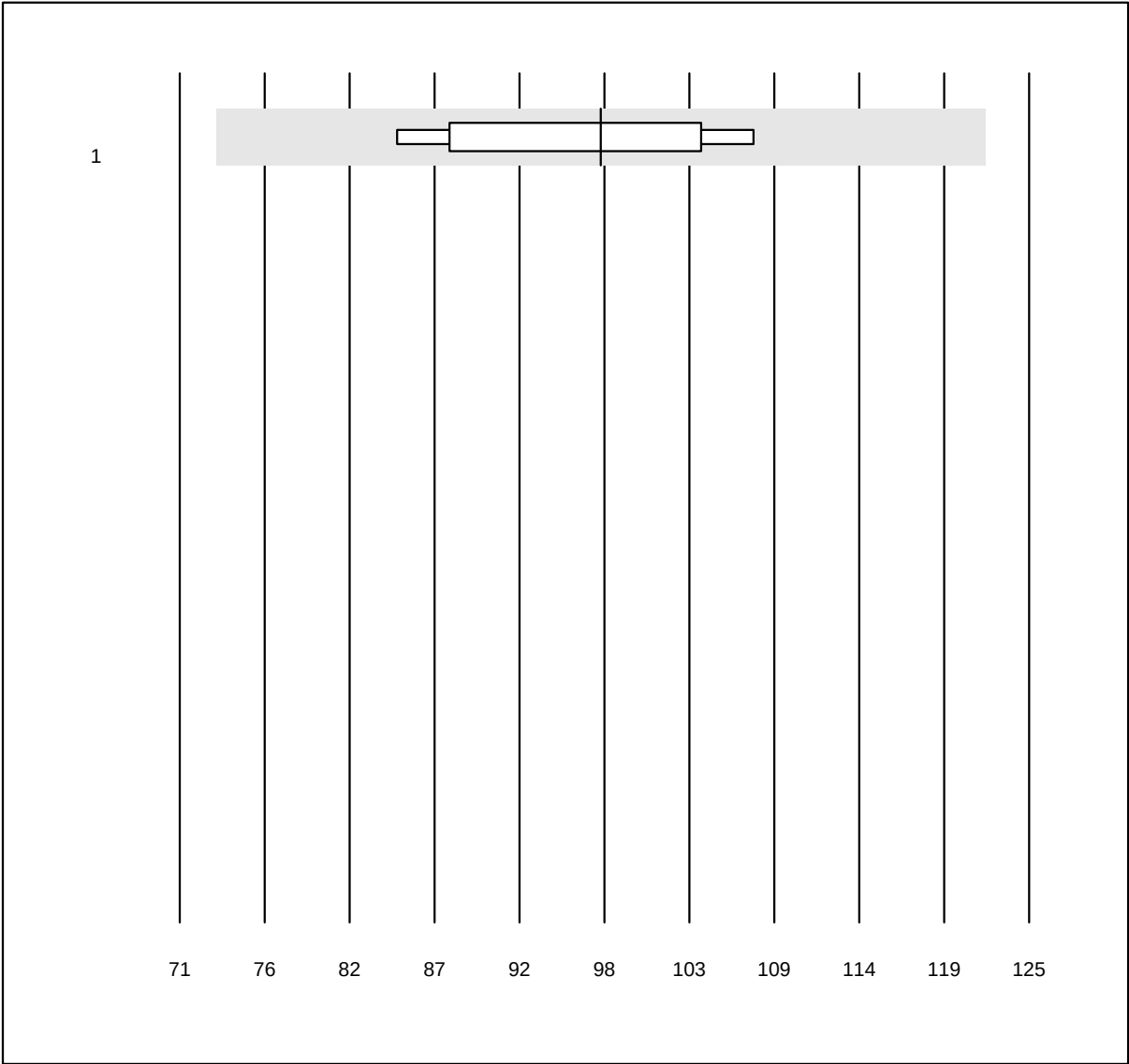


MQ Toleranz: 25%

Faktor V (%)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 8     | 100.0 | 0.0       | 0.0       | 90.3         | 10.1 | e*   |

Faktor VII

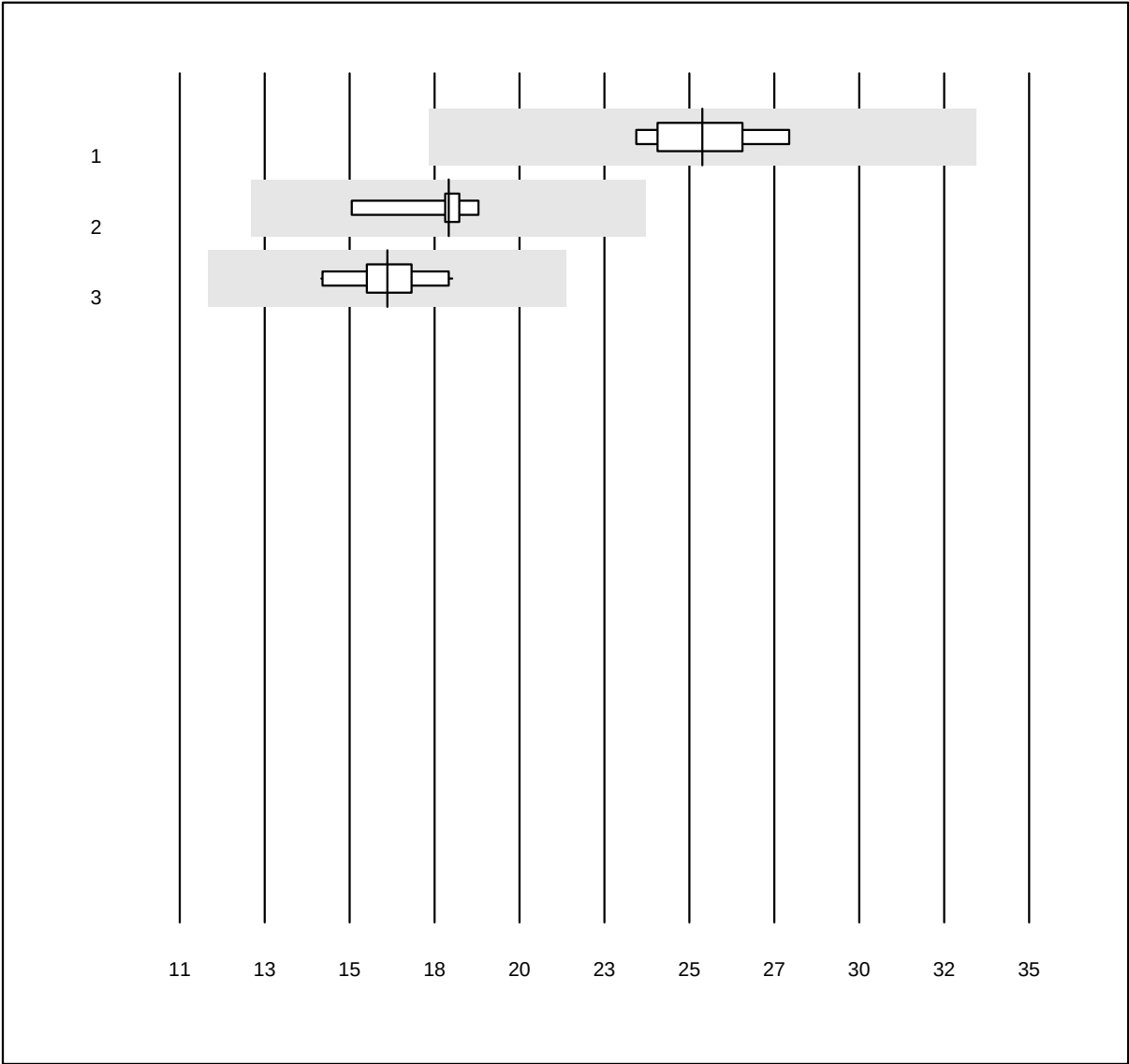


MQ Toleranz: 25%

Faktor VII (%)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 5     | 100.0 | 0.0       | 0.0       | 97.8         | 8.7  | e*   |

Thrombintime N



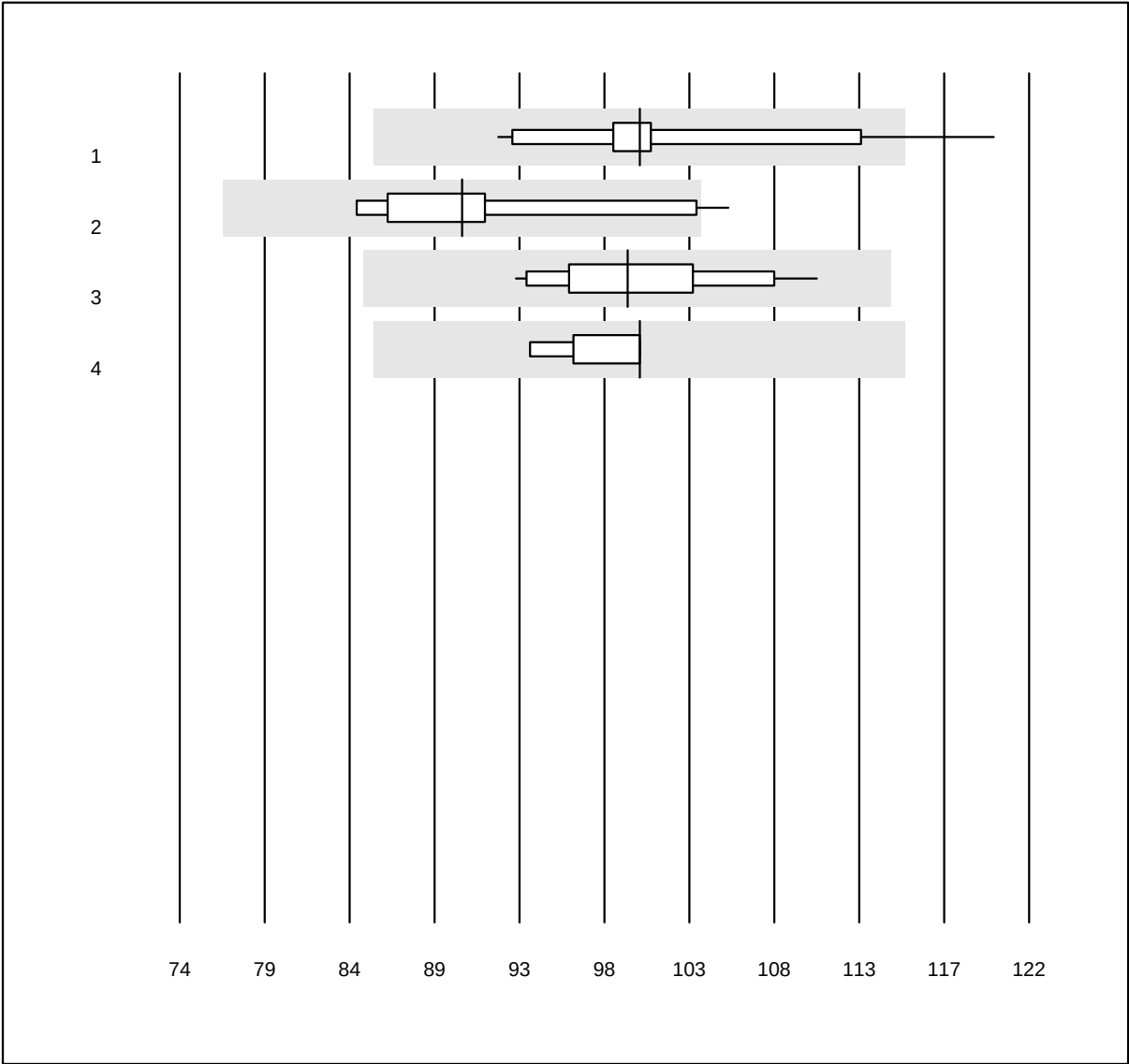
MQ Toleranz: 30%

Thrombintime N (Sek)

| No. | Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | ACL             | 7     | 100.0 | 0.0       | 0.0       | 26           | 5.8  | e    |
| 2   | Stago/STA       | 8     | 100.0 | 0.0       | 0.0       | 19           | 5.3  | e    |
| 3   | andere Methoden | 10    | 100.0 | 0.0       | 0.0       | 17           | 6.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Prothrombin time HT



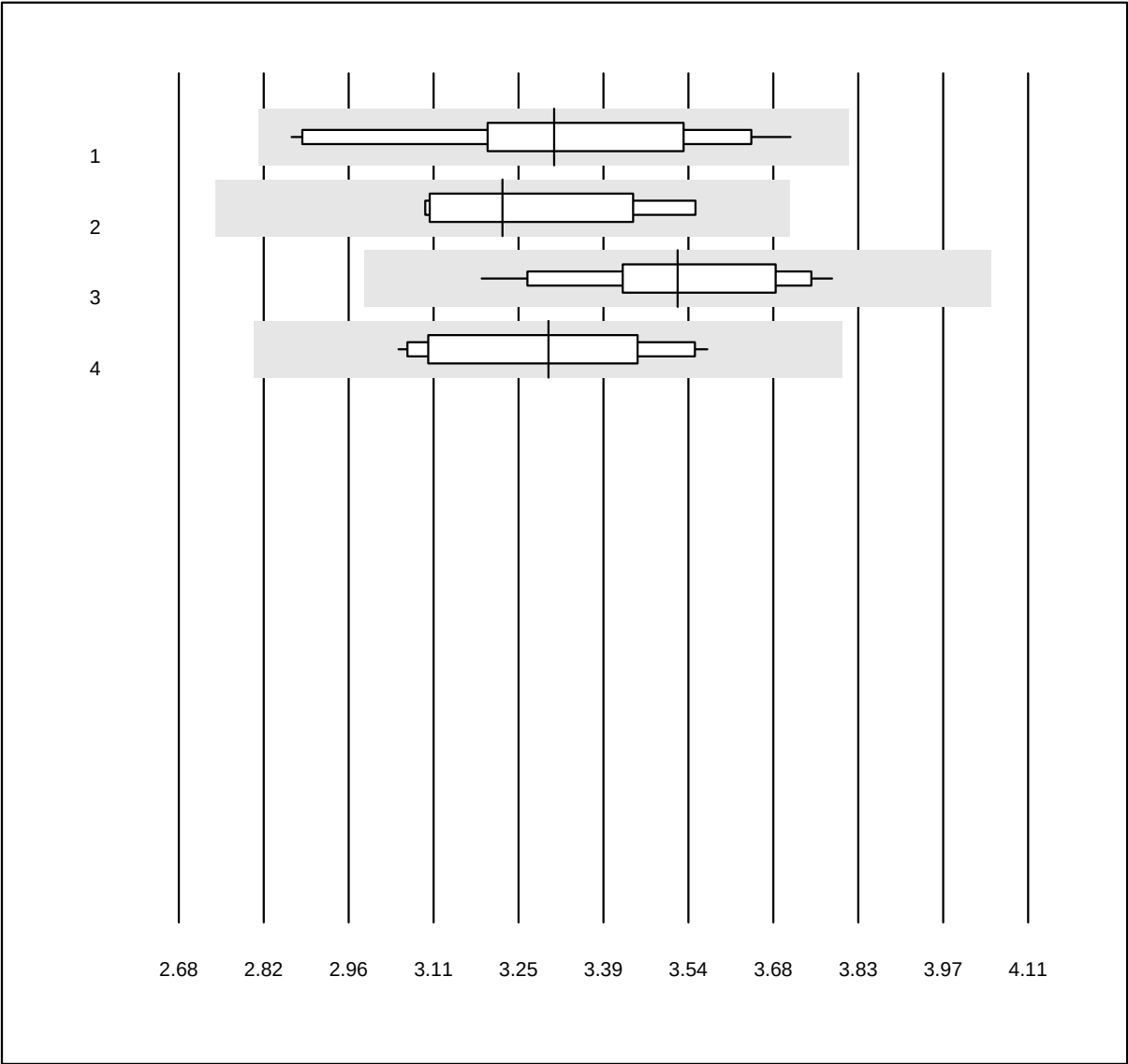
QUALAB Toleranz: 15%

Prothrombin time HT (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Innovin           | 14    | 92.9  | 7.1       | 0.0       | 100          | 6.4  | a    |
| 2 Neoplastin R      | 14    | 92.9  | 7.1       | 0.0       | 90           | 6.9  | e*   |
| 3 Recombiplastin 2G | 16    | 93.8  | 0.0       | 6.2       | 99           | 4.7  | e    |
| 4 andere Methoden   | 8     | 100.0 | 0.0       | 0.0       | 100          | 2.3  | a    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Fibrinogen H



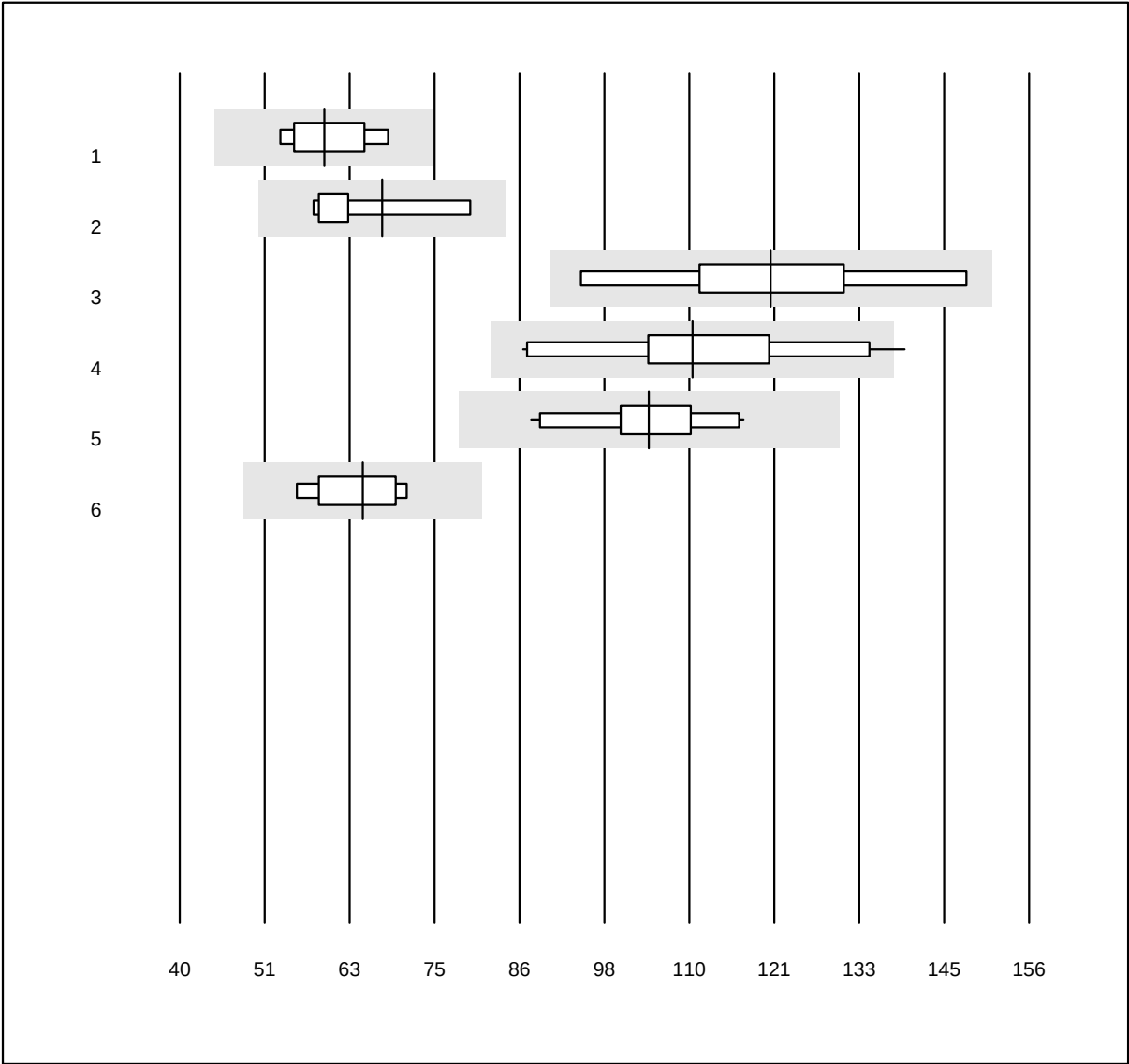
QUALAB Toleranz: 15%

Fibrinogen H (g/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Fibrinogen Q.F.A. | 15    | 100.0 | 0.0       | 0.0       | 3.31         | 7.4  | e*   |
| 2 Siemens Thrombin  | 4     | 100.0 | 0.0       | 0.0       | 3.23         | 5.7  | e*   |
| 3 Stago/STA         | 16    | 100.0 | 0.0       | 0.0       | 3.52         | 4.6  | e    |
| 4 andere Methoden   | 12    | 100.0 | 0.0       | 0.0       | 3.30         | 5.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

aPTT H

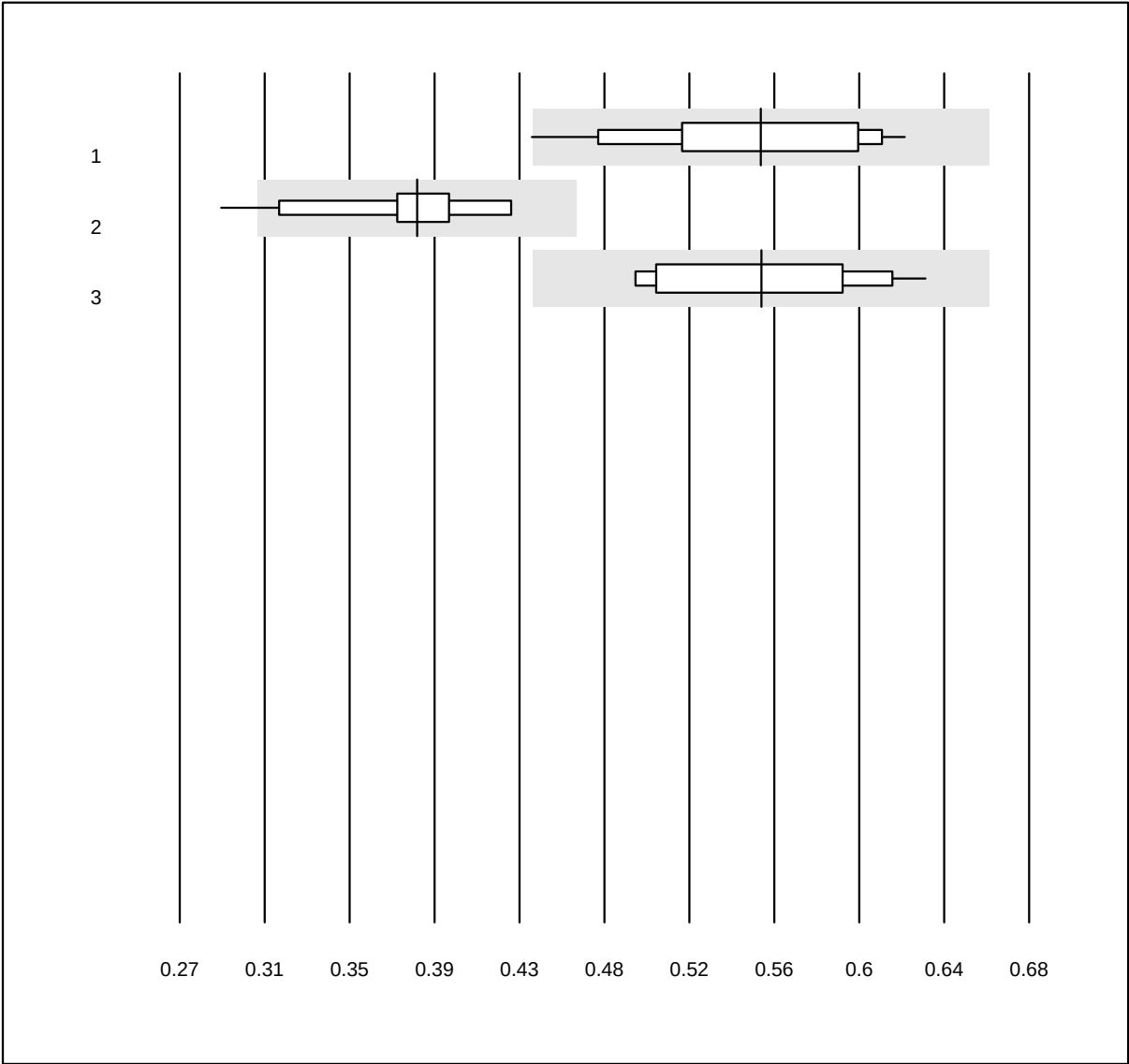


QUALAB Toleranz: 25%

aPTT H (Sek)

| No. Methode |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Actin FS        | 4     | 100.0 | 0.0       | 0.0       | 59.8         | 8.3  | e*   |
| 2           | Actin FSL       | 7     | 100.0 | 0.0       | 0.0       | 67.7         | 10.2 | a*   |
| 3           | Pathromtin SL   | 6     | 83.3  | 0.0       | 16.7      | 120.7        | 11.1 | e*   |
| 4           | Stago/STA       | 15    | 93.3  | 6.7       | 0.0       | 110.0        | 12.9 | e*   |
| 5           | aPTT-SP         | 11    | 90.9  | 0.0       | 9.1       | 104.1        | 7.5  | e    |
| 6           | andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 65.0         | 8.5  | e*   |

Anti-FXa (unfrakt-Heparin)



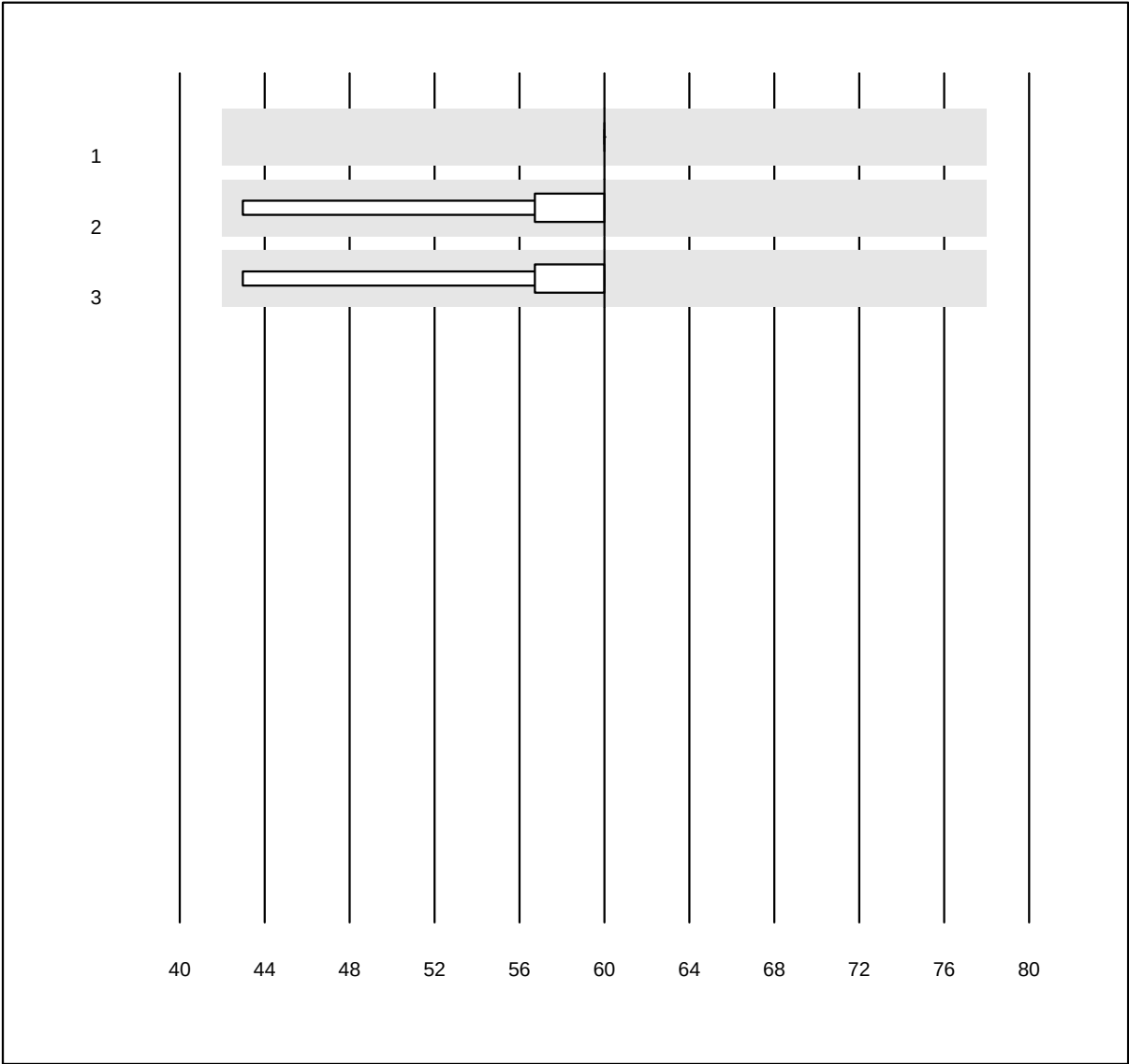
MQ Toleranz: 20%

Anti-FXa (unfrakt-Heparin)  
(IU/ml)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ACL             | 20    | 95.0  | 5.0       | 0.0       | 0.55         | 9.2  | e    |
| 2 Stago/STA       | 13    | 92.3  | 7.7       | 0.0       | 0.38         | 9.1  | e*   |
| 3 andere Methoden | 25    | 100.0 | 0.0       | 0.0       | 0.55         | 8.2  | e    |



Thrombintime H

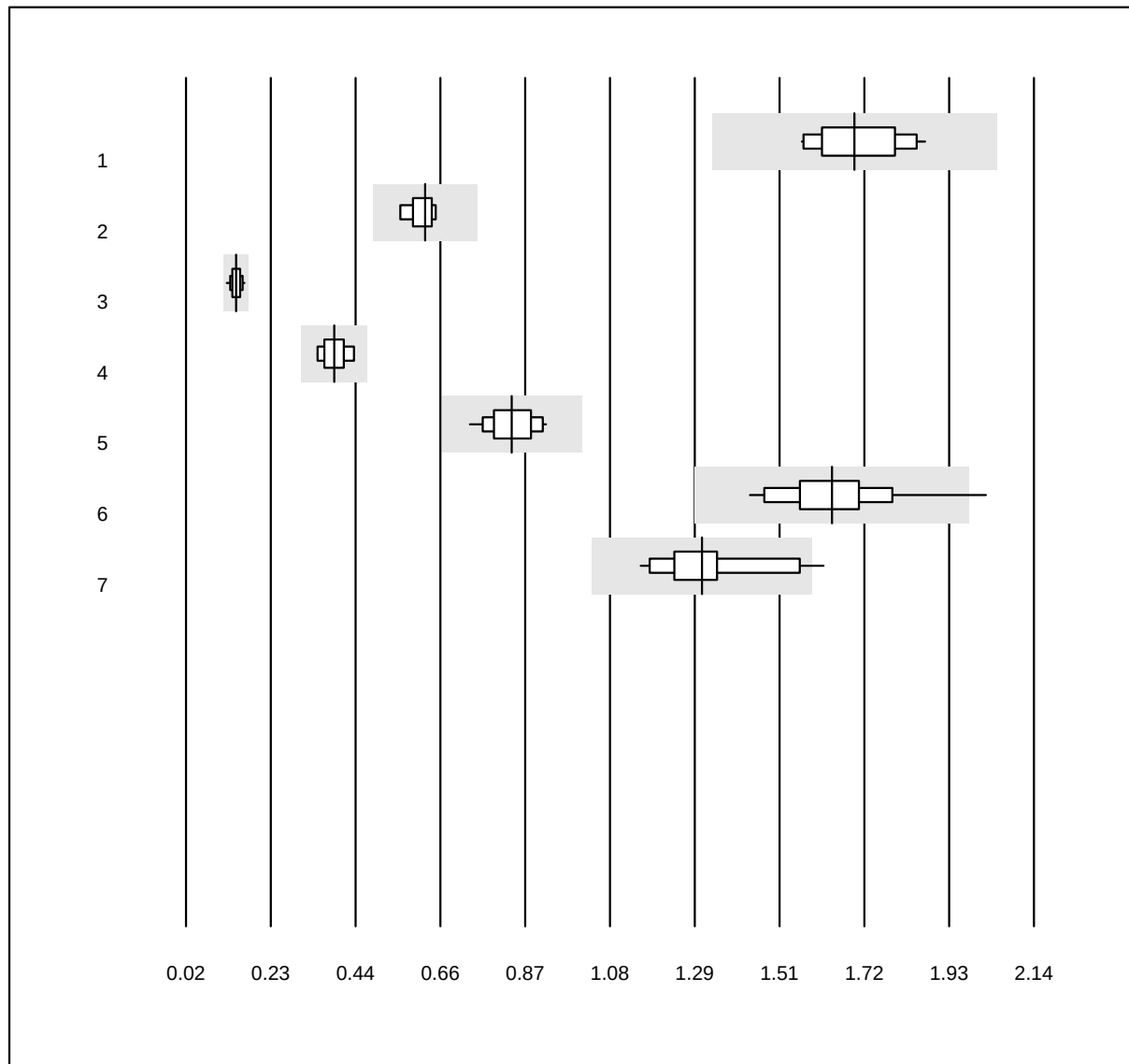


MQ Toleranz: 30%

Thrombintime H (Sek)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ACL             | 8     | 75.0  | 0.0       | 25.0      | 60           | 0.0  | e    |
| 2 Stago/STA       | 6     | 100.0 | 0.0       | 0.0       | 60           | 9.3  | e*   |
| 3 andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 60           | 9.3  | e*   |

## D-dimer



QUALAB Toleranz: 21%

D-dimer (mg/l)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ACL         | 14    | 92.9  | 0.0       | 7.1       | 1.69         | 5.9  | e    |
| 2 AQT 90 FLEX | 5     | 100.0 | 0.0       | 0.0       | 0.62         | 4.4  | e    |
| 3 Pathfast    | 21    | 100.0 | 0.0       | 0.0       | 0.15         | 7.9  | e    |
| 4 Roche       | 9     | 100.0 | 0.0       | 0.0       | 0.39         | 7.5  | e    |
| 5 STA Liatest | 17    | 100.0 | 0.0       | 0.0       | 0.83         | 6.6  | e    |
| 6 Siemens     | 18    | 94.4  | 5.6       | 0.0       | 1.64         | 8.0  | e    |
| 7 VIDAS       | 16    | 93.8  | 6.2       | 0.0       | 1.31         | 9.0  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

D-Dimer Triage

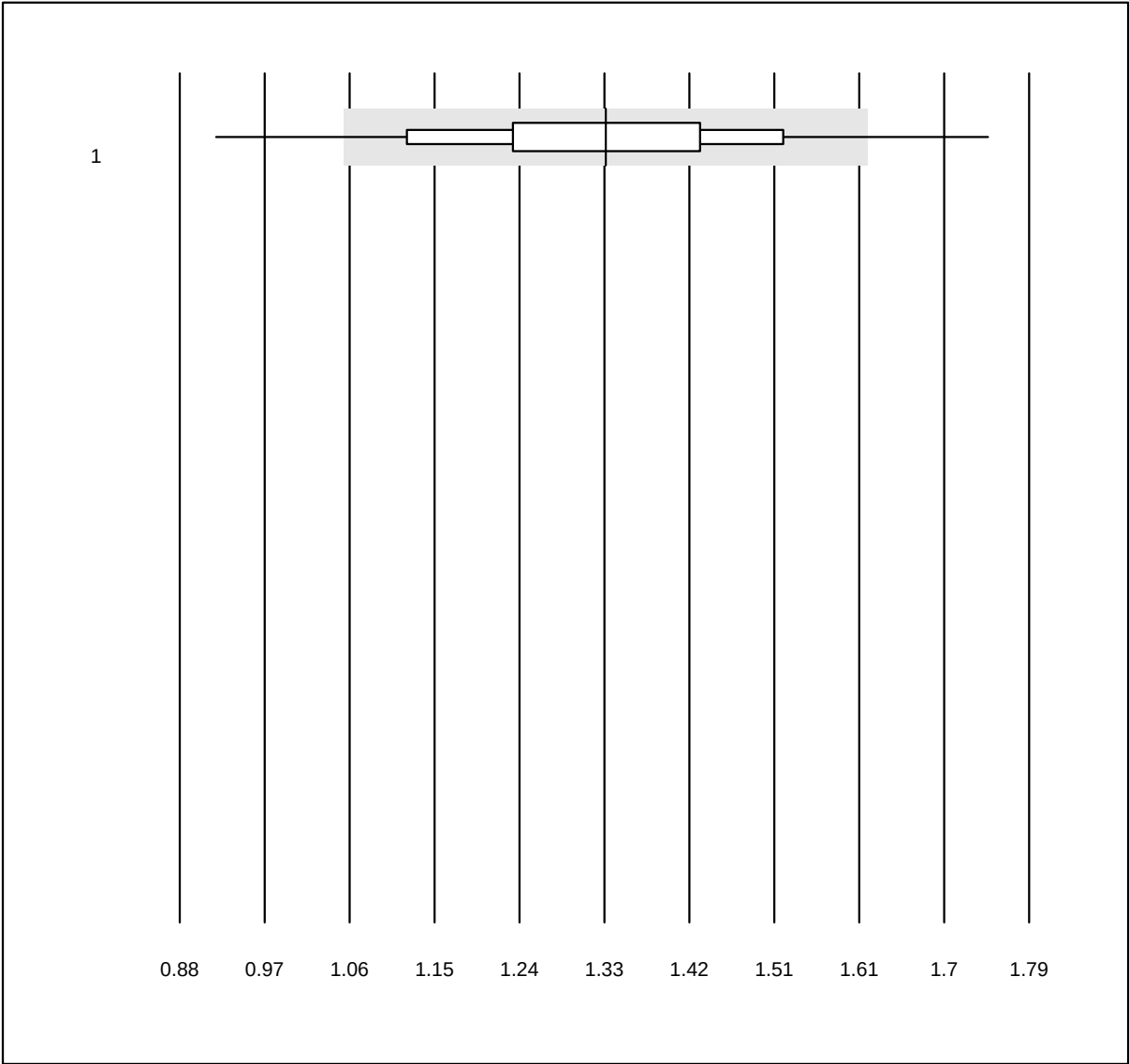


QUALAB Toleranz: 21%

D-Dimer Triage (ng/ml)

| No. Methode |        | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Triage | 407   | 93.1 | 4.2       | 2.7       | 702.91       | 10.3 | e    |

D-dimer qn AFIAS

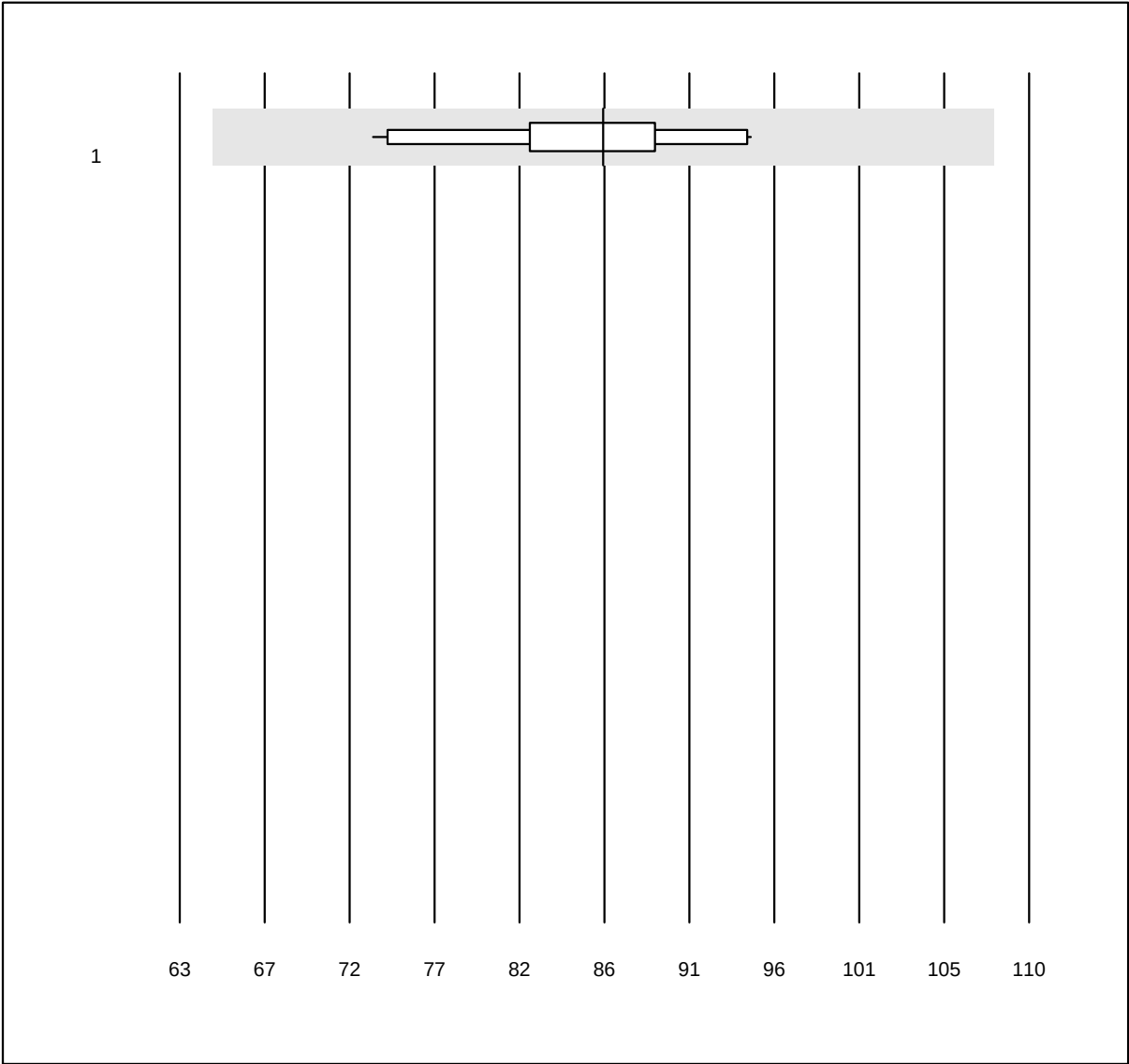


QUALAB Toleranz: 21%

D-dimer qn AFIAS (mg/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | AFIAS | 633   | 83.1 | 7.4       | 9.5       | 1.34         | 11.6 | e    |

CoaguChek APTT

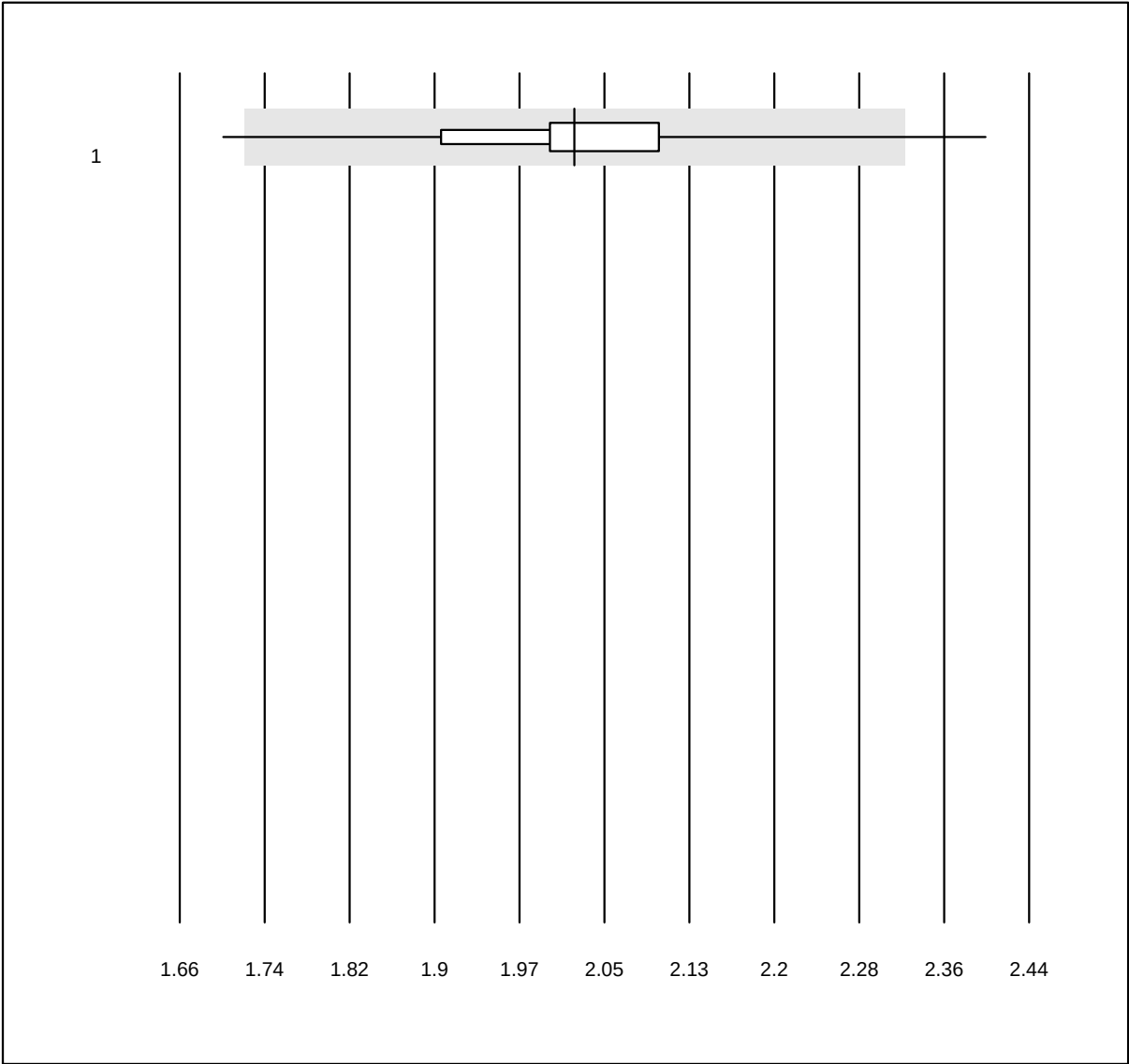


QUALAB Toleranz: 25%

CoaguChek APTT (Sek)

| No. Methode |                  | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | CoaguChek Pro II | 10    | 100.0 | 0.0       | 0.0       | 86.4         | 7.0  | e    |

INR CCXS

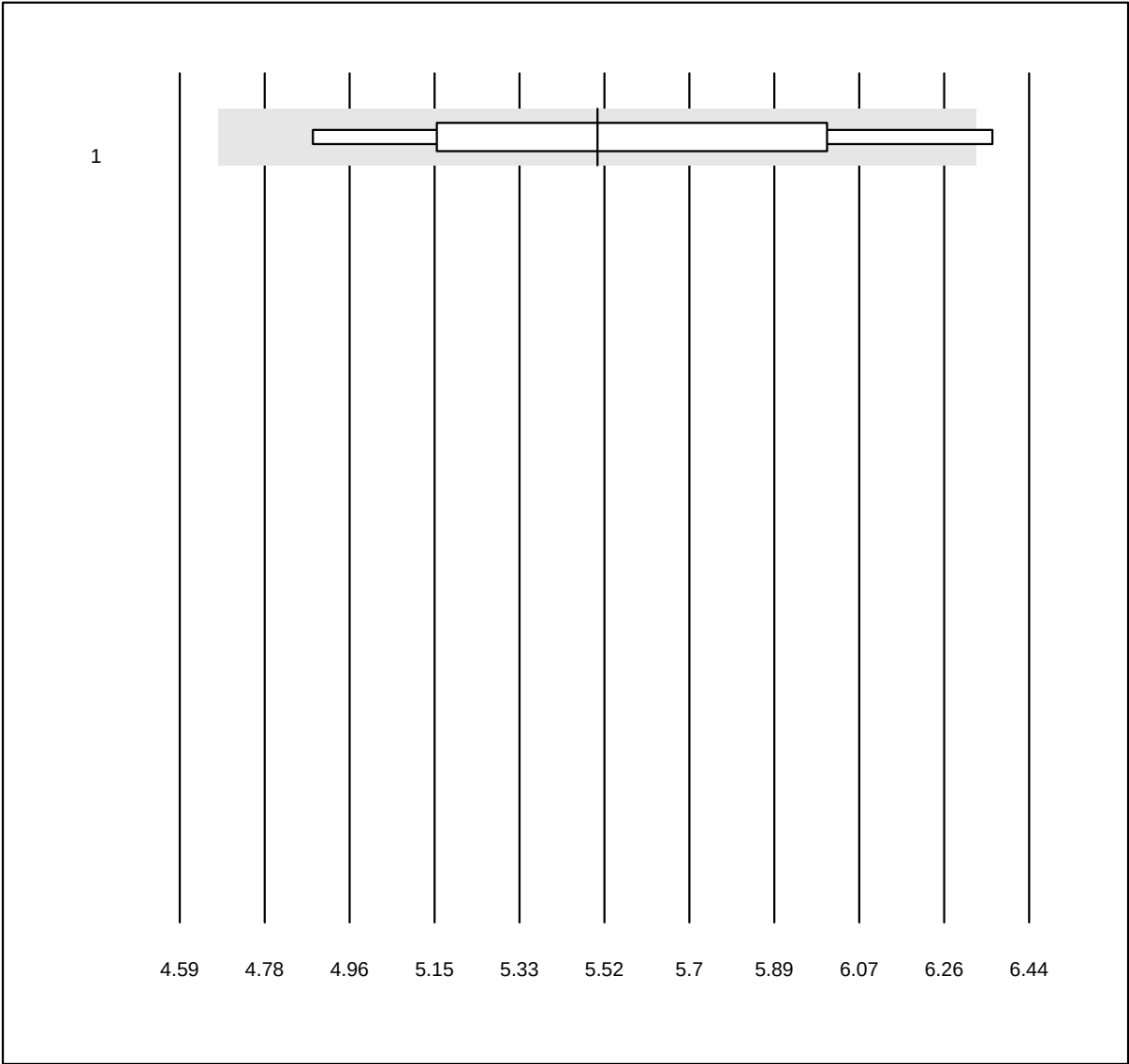


QUALAB Toleranz: 15%

INR CCXS (INR)

| No. Methode |              | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | CoaguChek XS | 1219  | 98.9 | 0.6       | 0.5       | 2.0          | 3.7  | e    |

INR HC

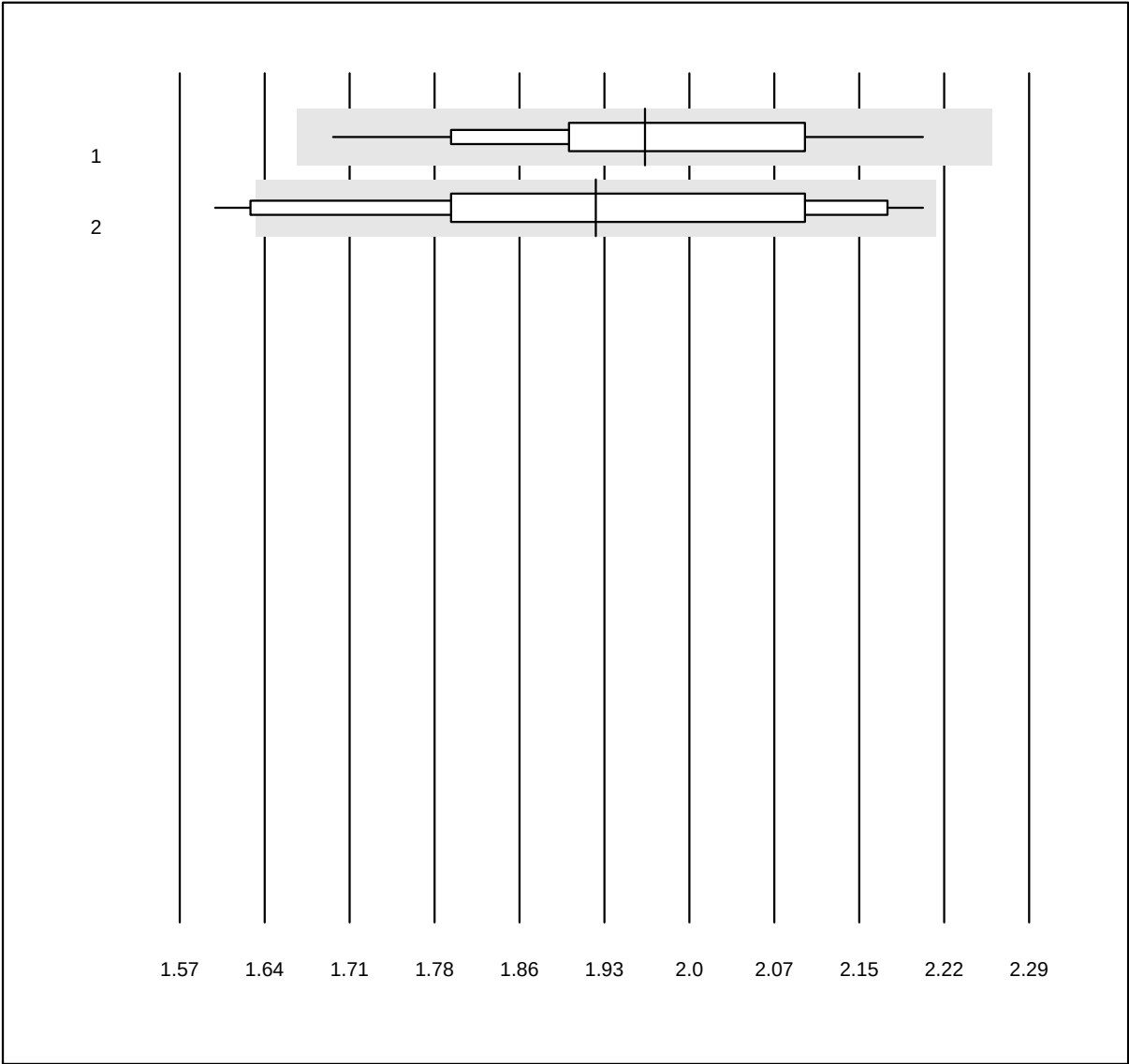


QUALAB Toleranz: 15%

INR HC ()

| No. Methode |              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Hemochron j. | 5     | 100.0 | 0.0       | 0.0       | 5.5          | 8.4  | e*   |

INR MI



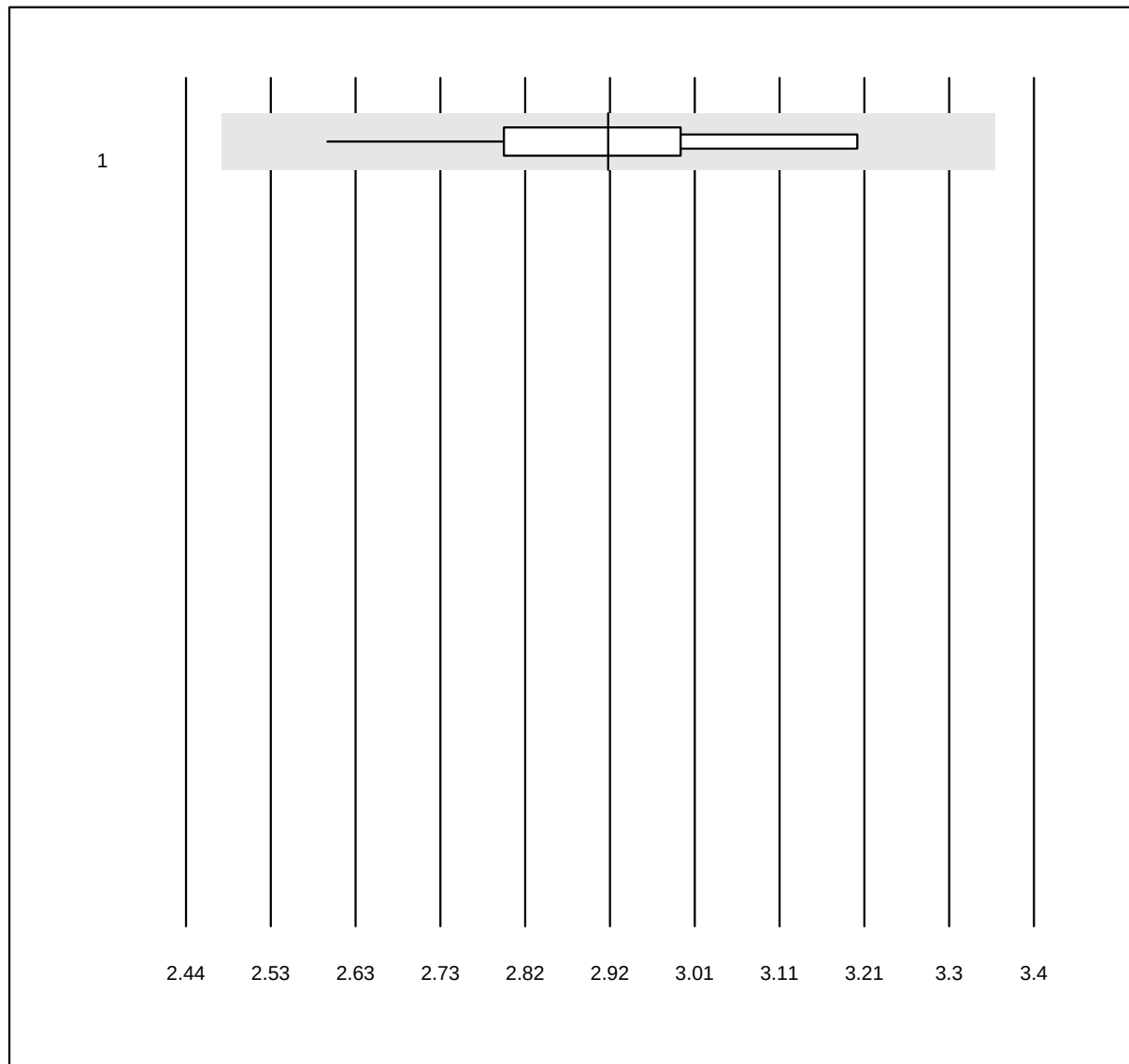
QUALAB Toleranz: 15%

INR MI ( )

| No. Methode       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 MicroINR        | 93    | 86.0 | 0.0       | 14.0      | 2.0          | 6.7  | e    |
| 2 microINR Expert | 32    | 62.5 | 6.2       | 31.2      | 1.9          | 9.2  | e    |



## INR Xprecia

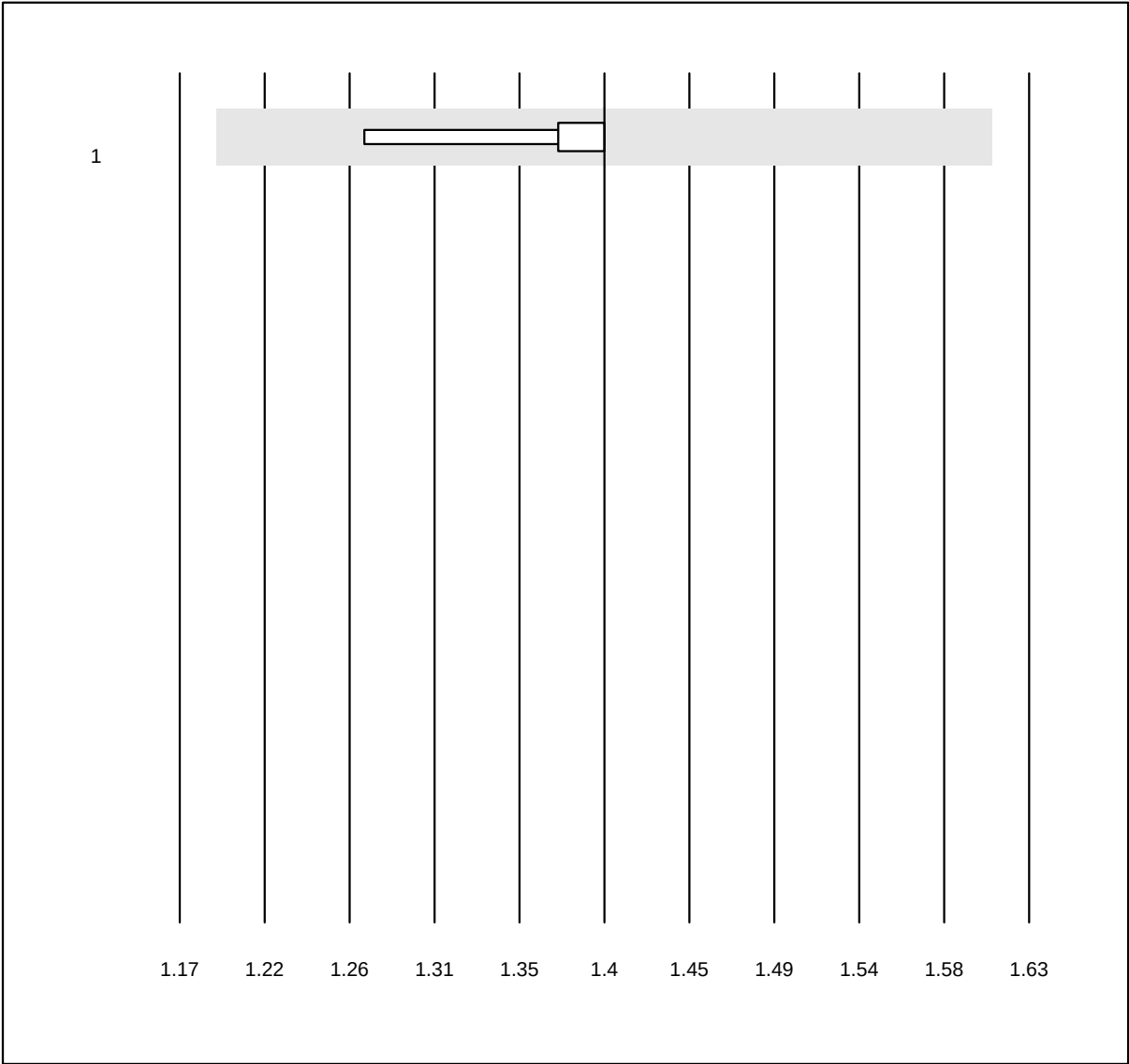


QUALAB Toleranz: 15%

INR Xprecia ()

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Xprecia   | 39    | 100.0 | 0.0       | 0.0       | 2.9          | 5.0  | e    |

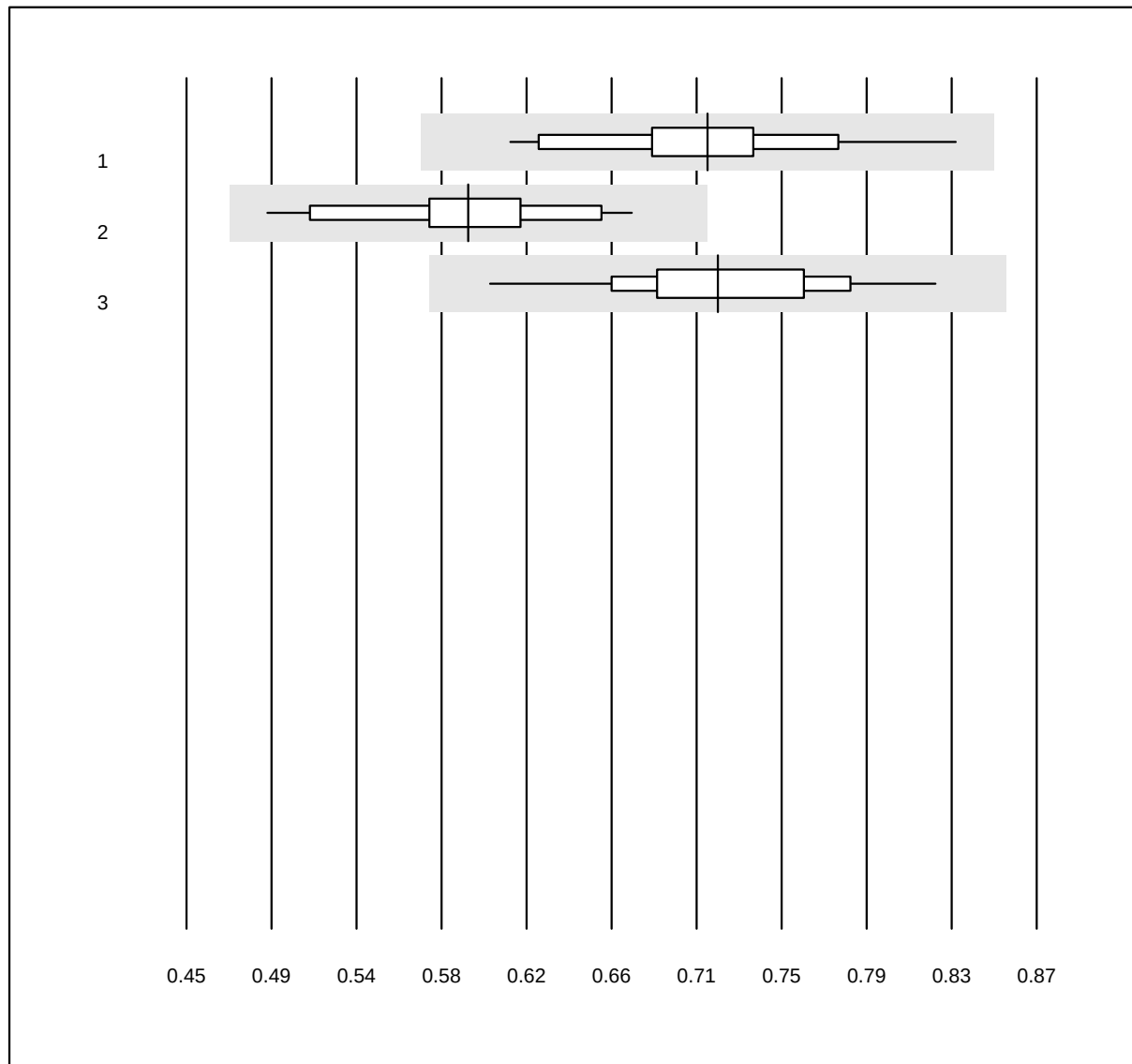
INR Lumira Dx



QUALAB Toleranz: 15%

INR Lumira Dx ()

| No. Methode |           | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Lumira Dx | 7     | 85.7 | 0.0       | 14.3      | 1.4          | 3.0  | e    |

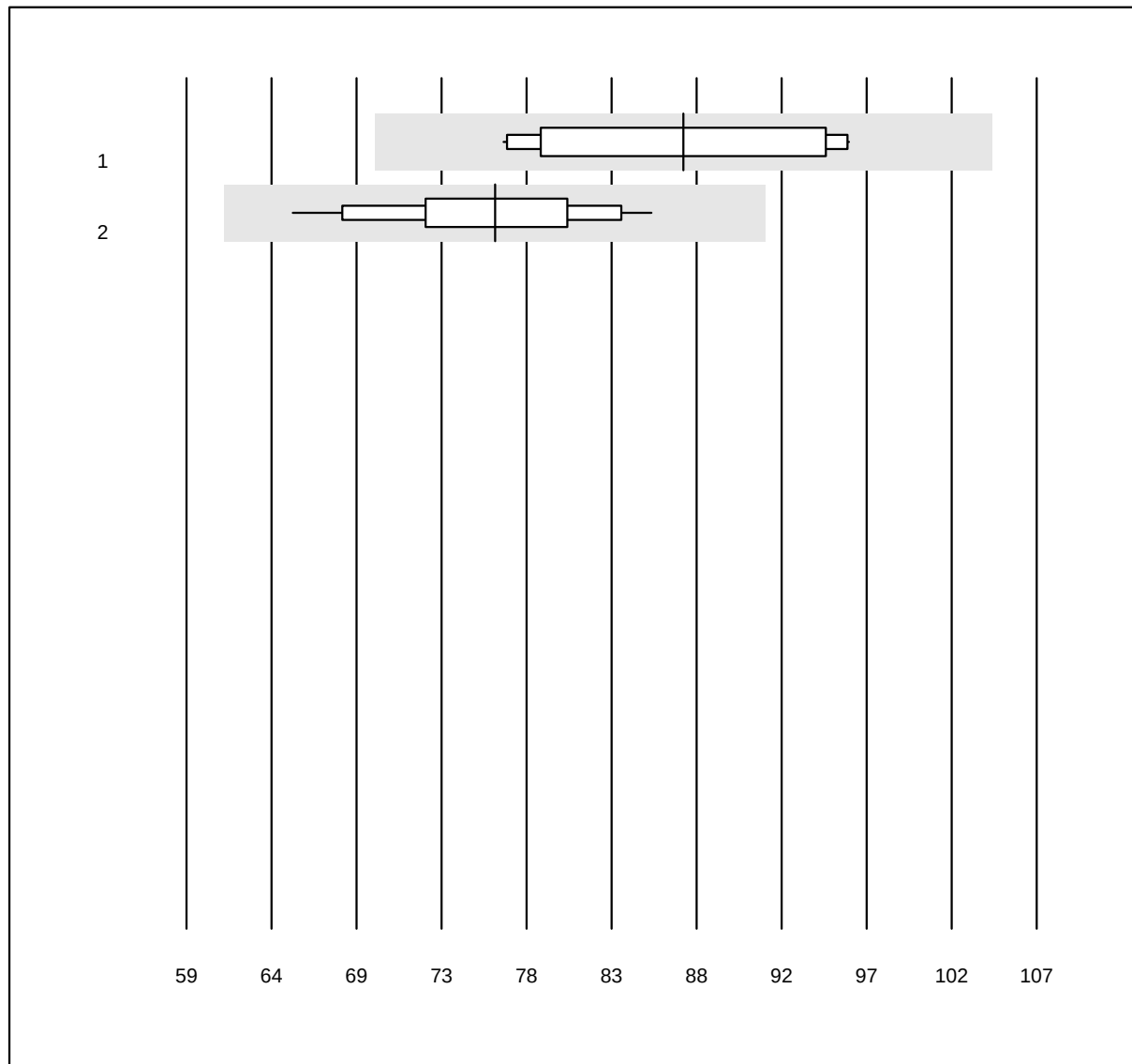
**Anti-FXa (LMW-Heparin)**

MQ Toleranz: 20%

Anti-FXa (LMW-Heparin)  
(IU/ml)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ACL             | 23    | 100.0 | 0.0       | 0.0       | 0.71         | 7.3  | e    |
| 2 Stago/STA       | 12    | 100.0 | 0.0       | 0.0       | 0.59         | 7.4  | e    |
| 3 andere Methoden | 20    | 100.0 | 0.0       | 0.0       | 0.71         | 6.9  | e    |

## Anti-FXa (Rivaroxaban)



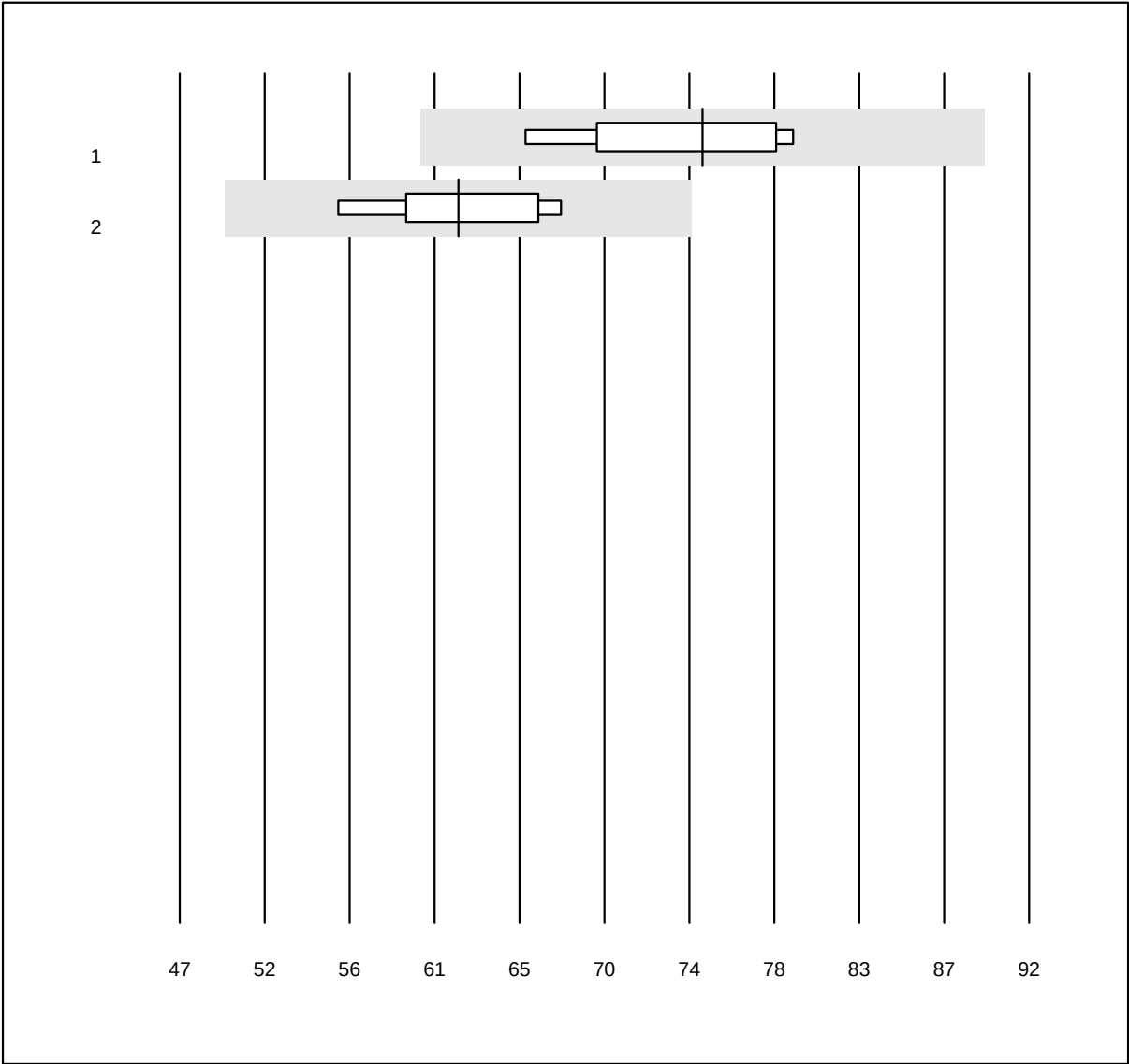
MQ Toleranz: 20%

Anti-FXa (Rivaroxaban)  
(µg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ACL       | 11    | 100.0 | 0.0       | 0.0       | 87.05        | 9.0  | e*   |
| 2 Stago/STA | 14    | 92.9  | 0.0       | 7.1       | 76.43        | 6.9  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Anti-FXa (Apixaban)



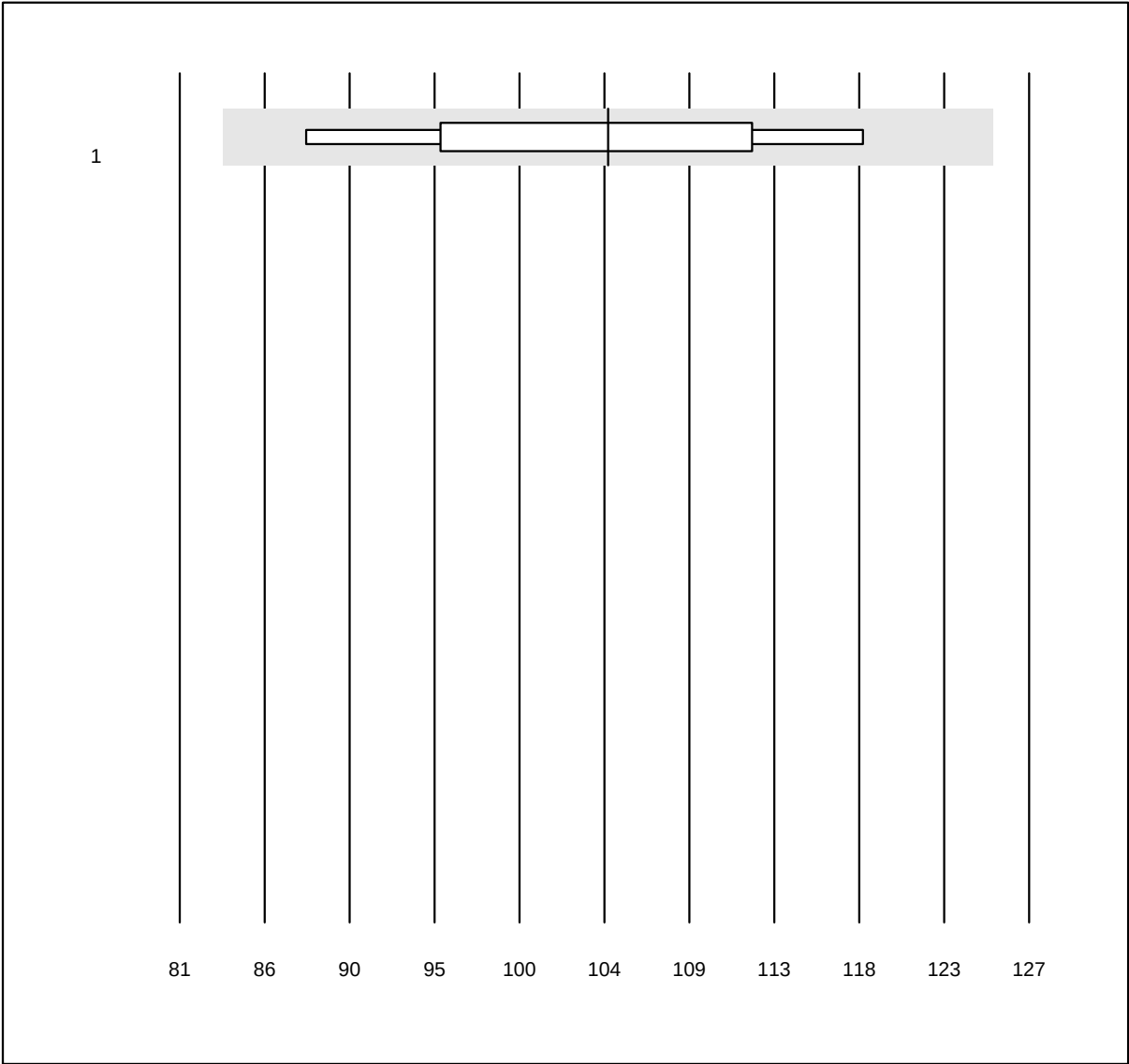
MQ Toleranz: 20%

Anti-FXa (Apixaban) (µg/l)

| No. | Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|-----------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | ACL       | 5     | 100.0 | 0.0       | 0.0       | 74.70        | 6.8  | e*   |
| 2   | Stago/STA | 7     | 100.0 | 0.0       | 0.0       | 61.77        | 6.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Anti-FXa (Edoxaban)

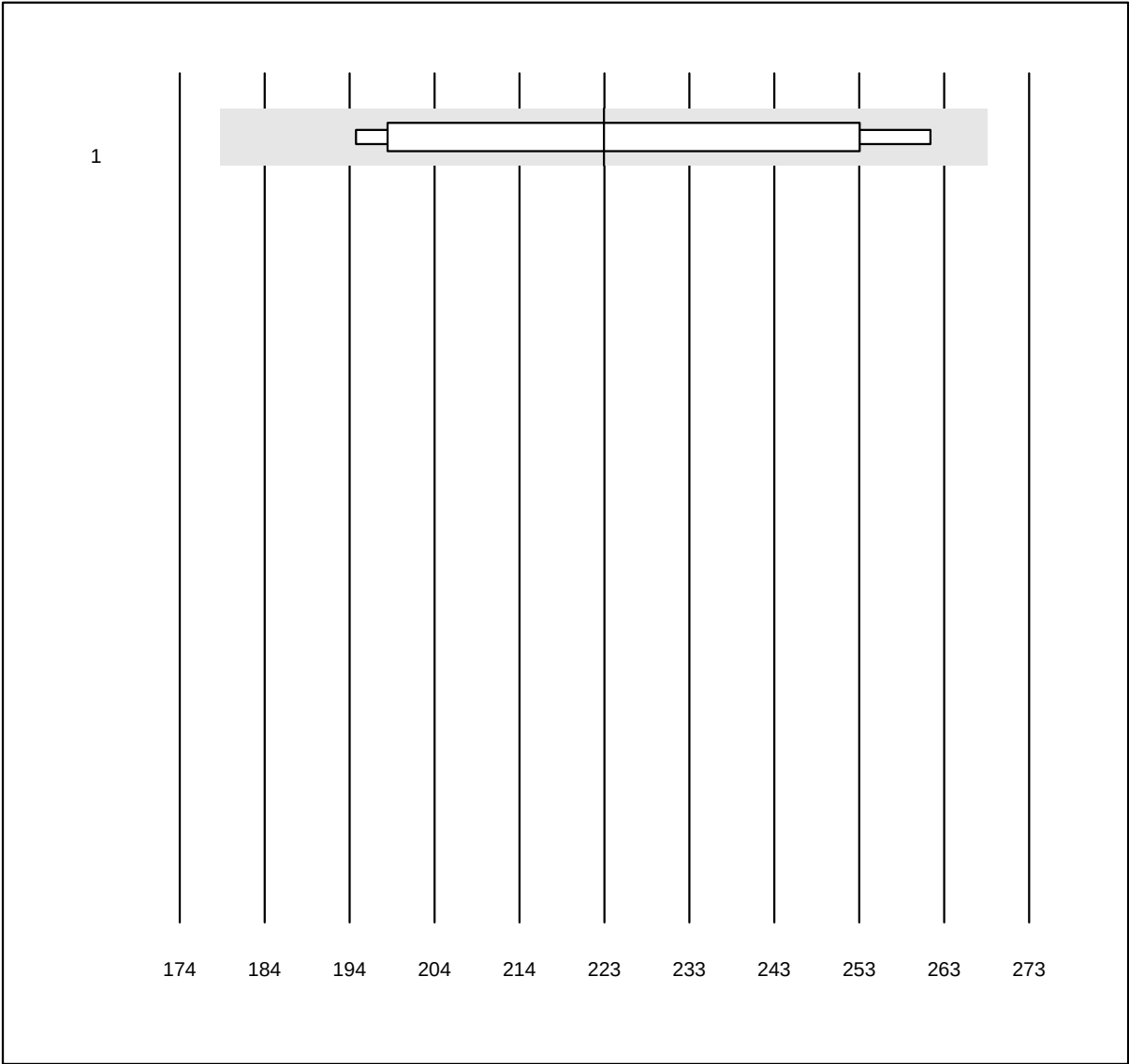


MQ Toleranz: 20%

Anti-FXa (Edoxaban) (µg/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 4     | 100.0 | 0.0       | 0.0       | 104.20       | 8.5  | e*   |

Anti-FIIa (Dabigatran)

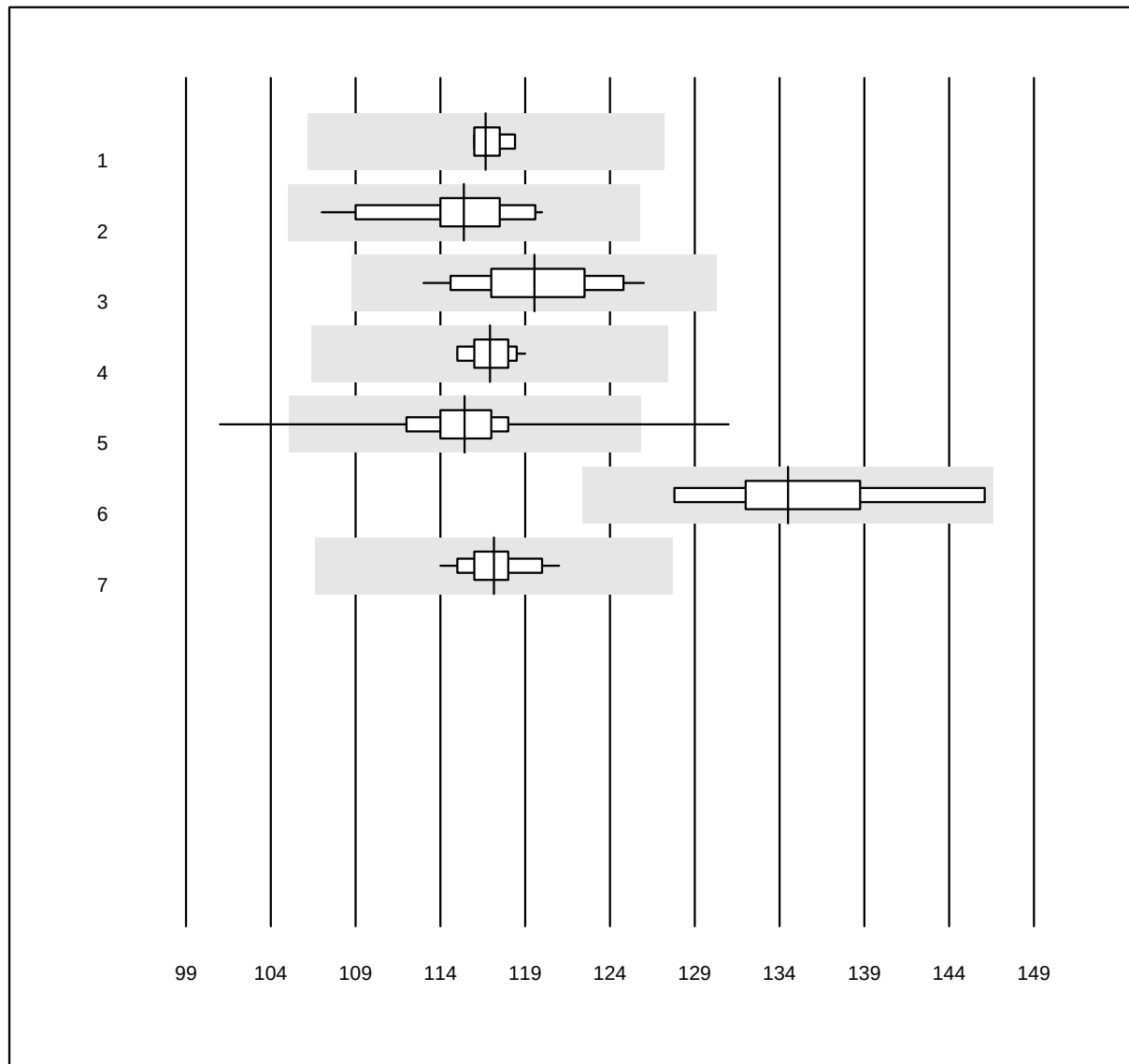


MQ Toleranz: 20%

Anti-FIIa (Dabigatran) (µg/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 4     | 100.0 | 0.0       | 0.0       | 223.45       | 13.3 | e*   |

## Hemoglobin



QUALAB Toleranz: 9%

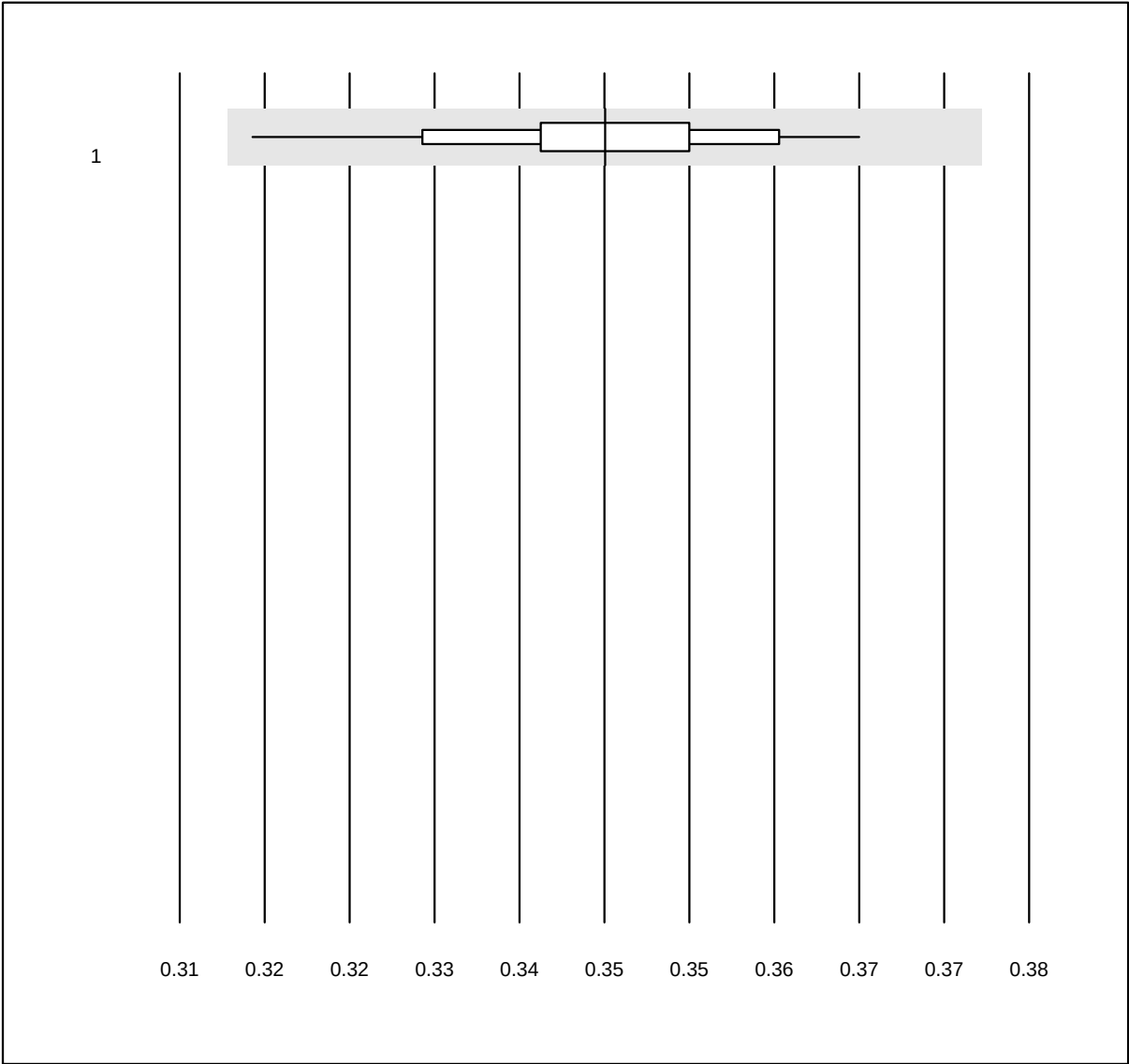
Hemoglobin (g/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Automat           | 5     | 100.0 | 0.0       | 0.0       | 116.7        | 0.7  | e    |
| 2 Cyanmethämoglobin | 13    | 100.0 | 0.0       | 0.0       | 115.4        | 2.9  | e    |
| 3 DiaSpect          | 14    | 92.9  | 0.0       | 7.1       | 119.5        | 2.8  | e    |
| 4 Hemocontrol       | 14    | 100.0 | 0.0       | 0.0       | 116.9        | 1.0  | e    |
| 5 Hemocue           | 384   | 93.8  | 1.6       | 4.7       | 115.4        | 2.6  | e    |
| 6 Hemocue Hb 801    | 6     | 100.0 | 0.0       | 0.0       | 134.5        | 3.7  | e*   |
| 7 Sysmex X          | 62    | 100.0 | 0.0       | 0.0       | 117.2        | 1.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



Hematocrit

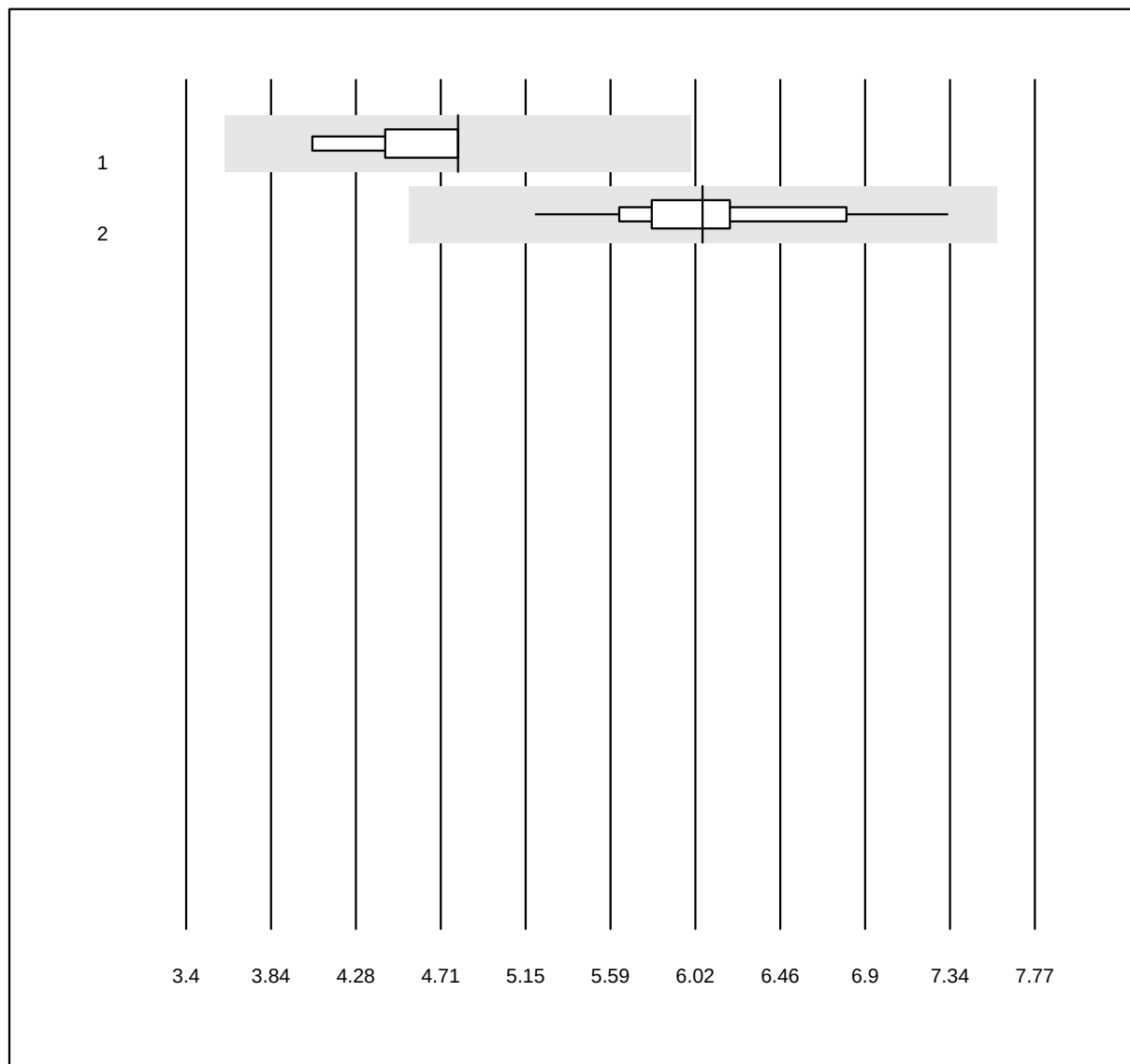


QUALAB Toleranz: 9%

Hematocrit (l/l)

| No. Methode                                                                                                           |          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | Sysmex X | 62    | 100.0 | 0.0       | 0.0       | 0.35         | 3.1  | e    |
| 3 additional results were submitted but not published because the method groups were too small. (< results per group) |          |       |       |           |           |              |      |      |

## Leucocytes



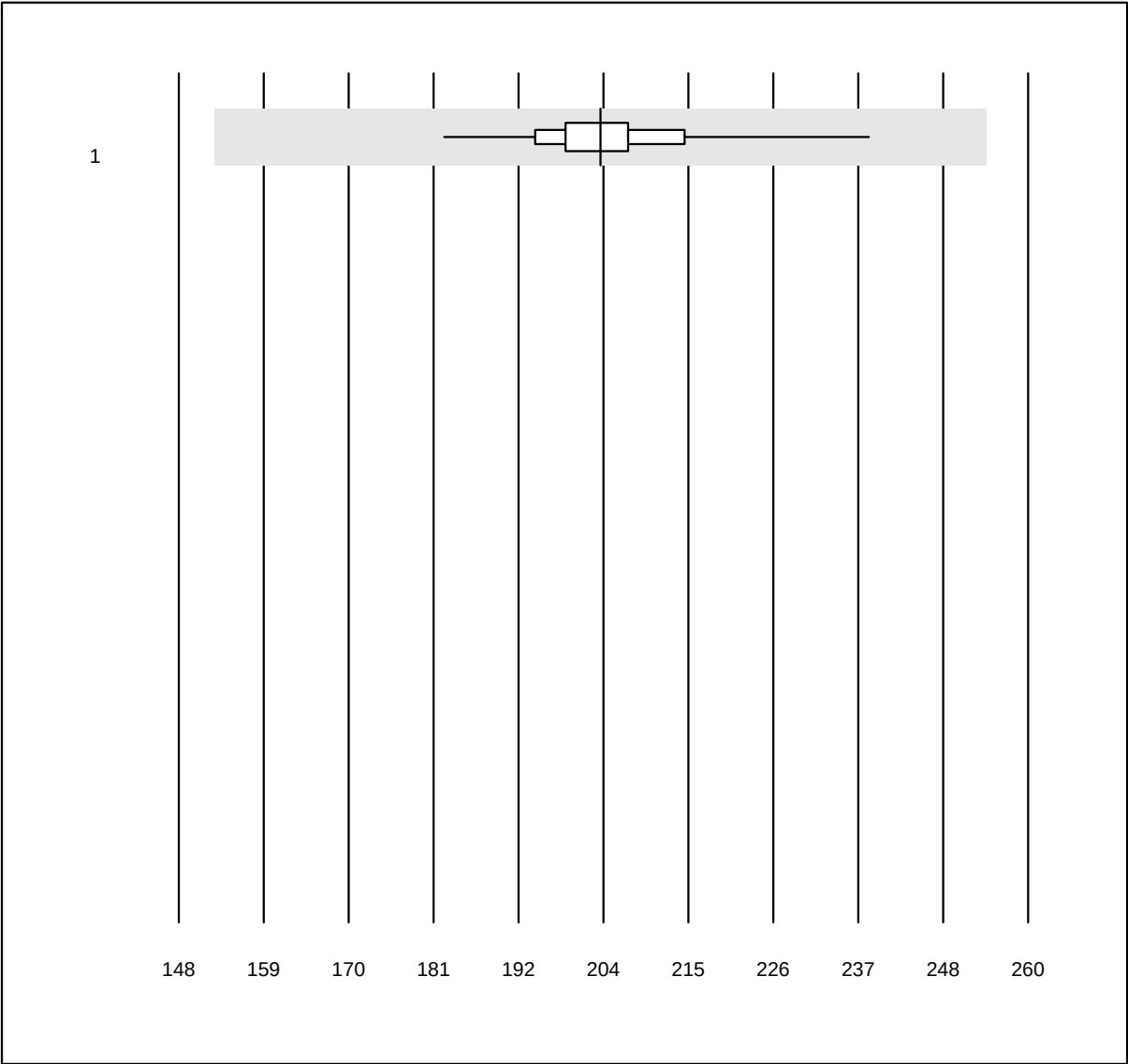
QUALAB Toleranz: 25%

Leucocytes (G/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Mikroskopisch | 4     | 100.0 | 0.0       | 0.0       | 4.80         | 5.3  | e    |
| 2 Sysmex X      | 62    | 100.0 | 0.0       | 0.0       | 6.06         | 7.1  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

# Thrombocytes

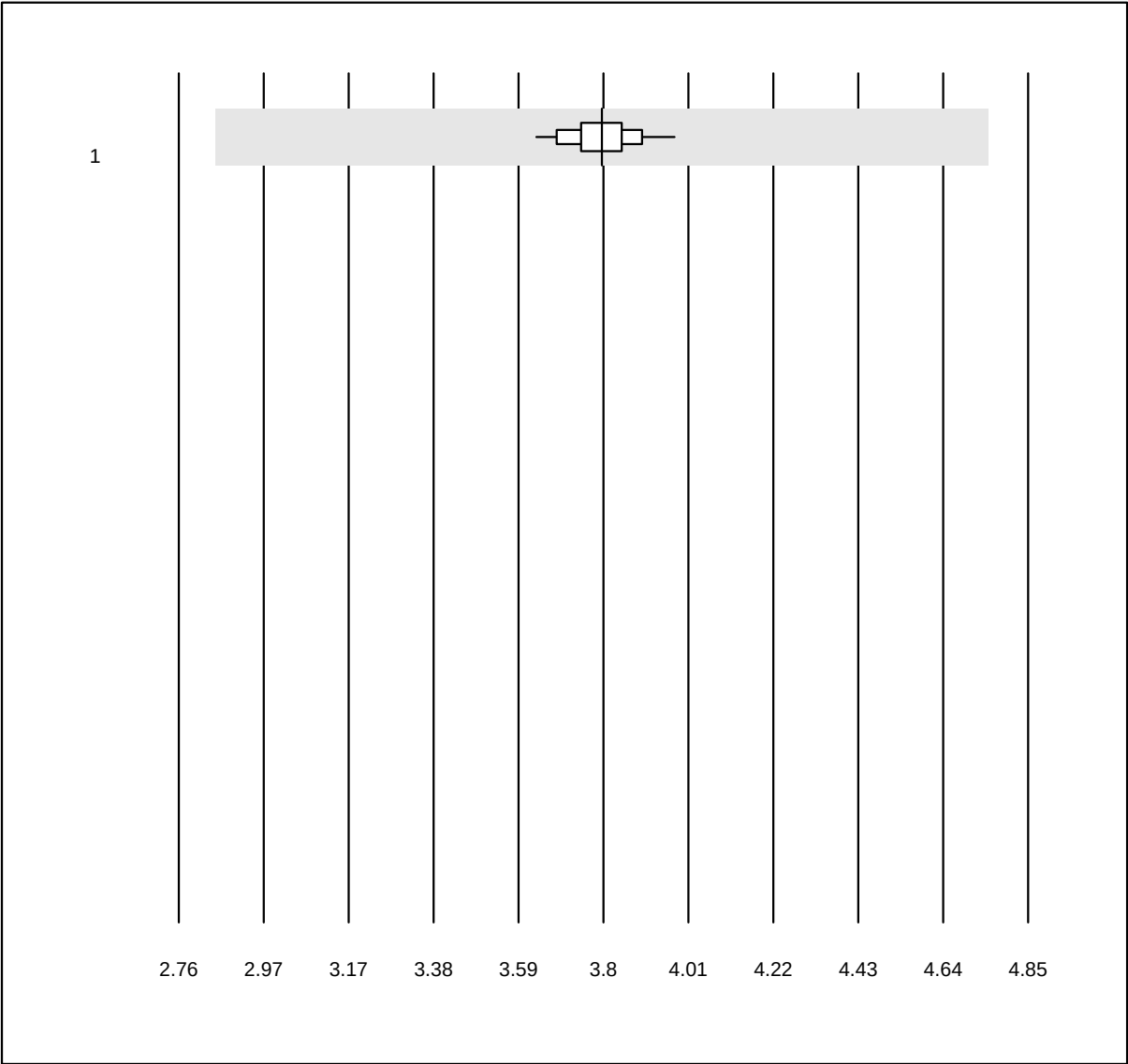


QUALAB Toleranz: 25%

Thrombocytes (G/l)

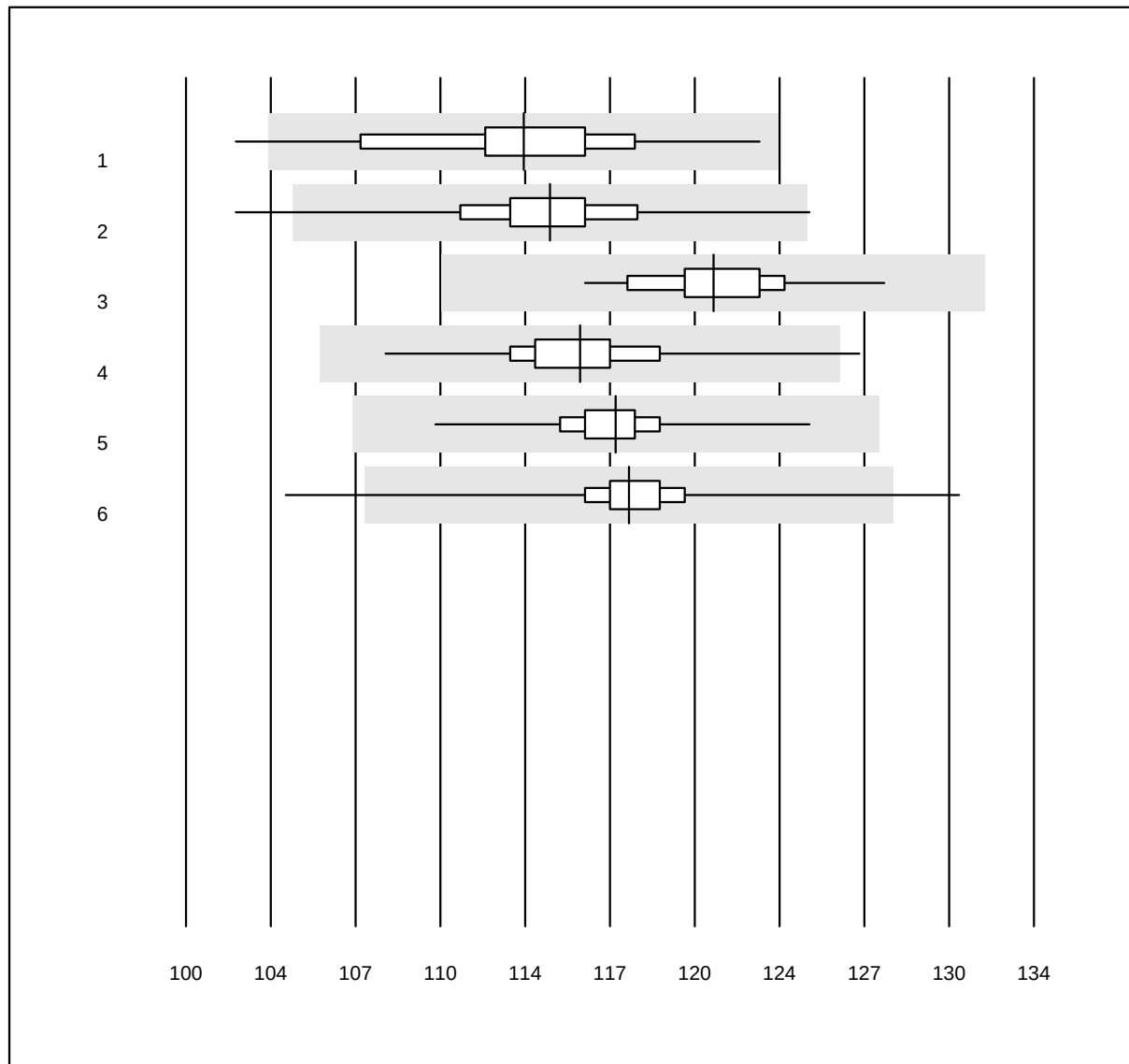
| No. Methode                                                                                                           |          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | Sysmex X | 62    | 100.0 | 0.0       | 0.0       | 203.6        | 4.7  | e    |
| 3 additional results were submitted but not published because the method groups were too small. (< results per group) |          |       |       |           |           |              |      |      |

## Erythrocytes



| QUALAB Toleranz: 25%                                                                                                  |          | Erythrocytes (T/l) |       |           |           |              |      |      |
|-----------------------------------------------------------------------------------------------------------------------|----------|--------------------|-------|-----------|-----------|--------------|------|------|
| No.                                                                                                                   | Methode  | Total              | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
| 1                                                                                                                     | Sysmex X | 62                 | 100.0 | 0.0       | 0.0       | 3.80         | 2.0  | e    |
| 2 additional results were submitted but not published because the method groups were too small. (< results per group) |          |                    |       |           |           |              |      |      |

## Hemoglobin



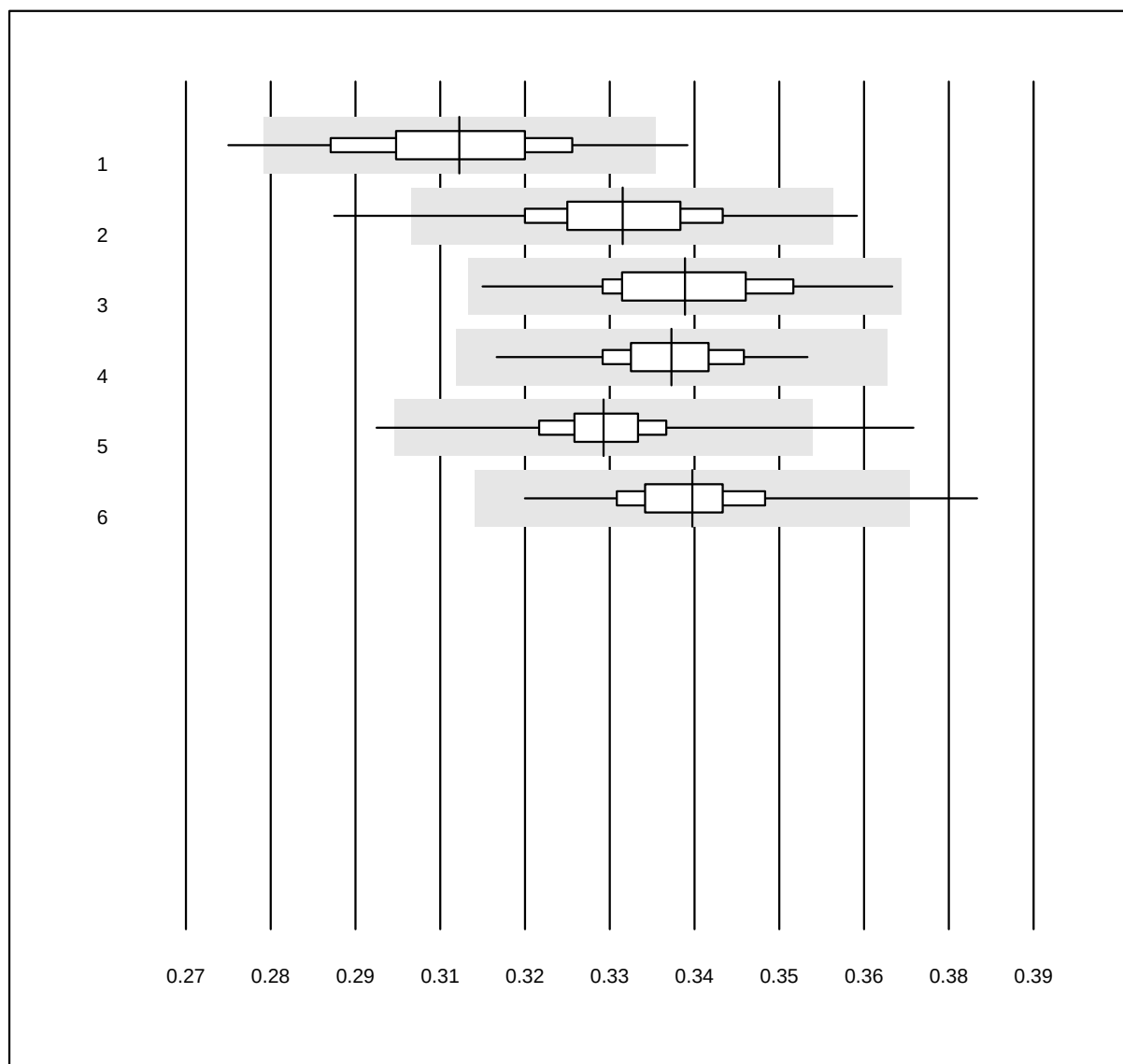
QUALAB Toleranz: 9%

Hemoglobin (g/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Micros 60          | 44    | 97.7  | 2.3       | 0.0       | 113.5        | 3.5  | e    |
| 2 Mythic             | 194   | 95.9  | 1.0       | 3.1       | 114.6        | 2.7  | e    |
| 3 Swelab             | 26    | 100.0 | 0.0       | 0.0       | 121.2        | 2.1  | e    |
| 4 Sysmex Poch - 100i | 170   | 97.6  | 0.6       | 1.8       | 115.8        | 2.4  | e    |
| 5 Sysmex XP 300      | 553   | 98.0  | 0.0       | 2.0       | 117.2        | 1.4  | e    |
| 6 Sysmex XQ-320      | 226   | 95.1  | 1.8       | 3.1       | 117.8        | 2.1  | e    |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Hematocrit



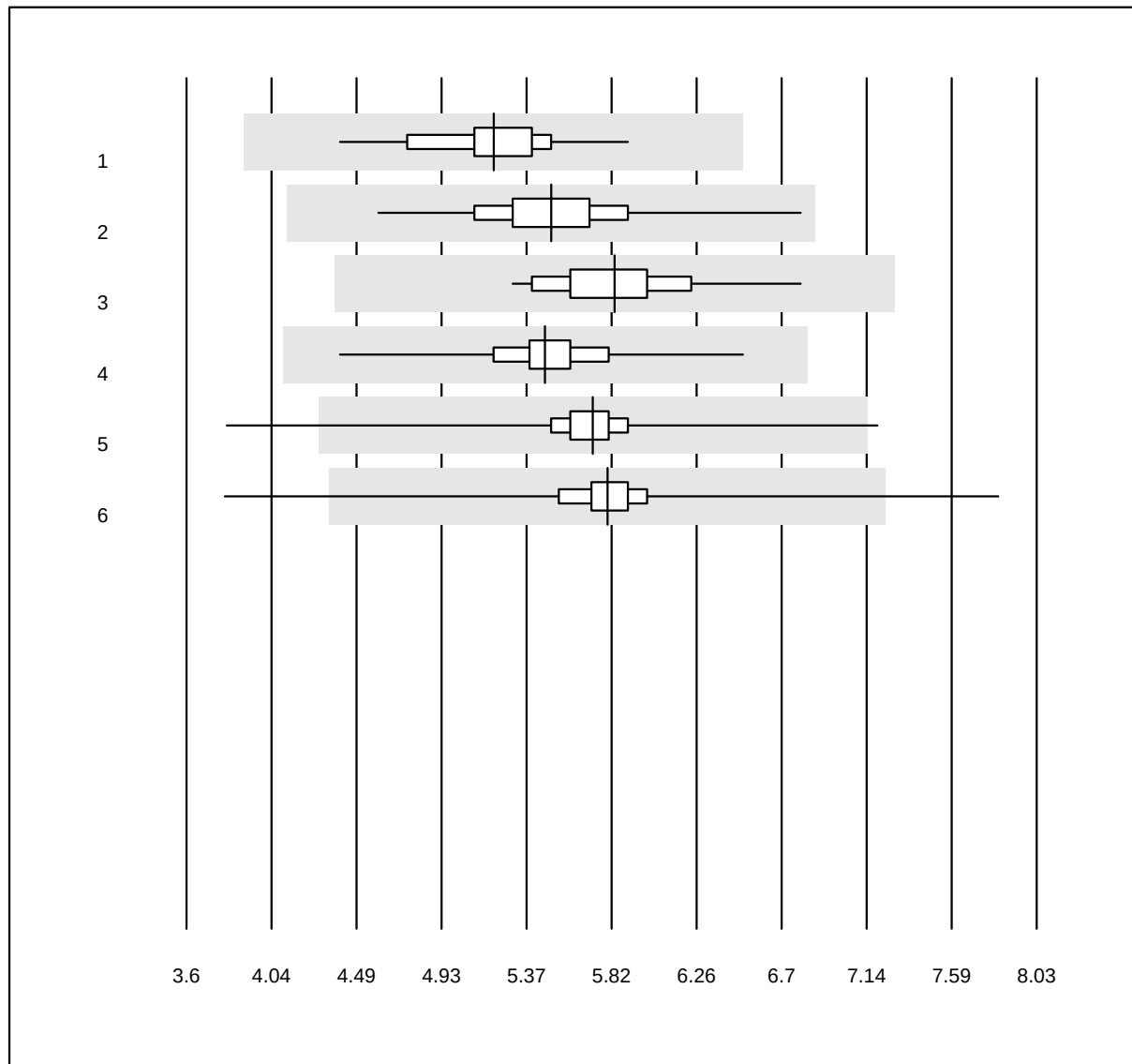
QUALAB Toleranz: 9%

Hematocrit (l/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Micros 60          | 44    | 90.9  | 4.5       | 4.5       | 0.31         | 4.4  | e    |
| 2 Mythic             | 194   | 94.8  | 1.5       | 3.6       | 0.33         | 3.5  | e    |
| 3 Swelab             | 26    | 100.0 | 0.0       | 0.0       | 0.34         | 3.5  | e    |
| 4 Sysmex Poch - 100i | 169   | 98.8  | 0.0       | 1.2       | 0.34         | 2.4  | e    |
| 5 Sysmex XP 300      | 555   | 97.8  | 0.7       | 1.4       | 0.33         | 2.4  | e    |
| 6 Sysmex XQ-320      | 224   | 95.1  | 0.9       | 4.0       | 0.34         | 2.7  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Leucocytes



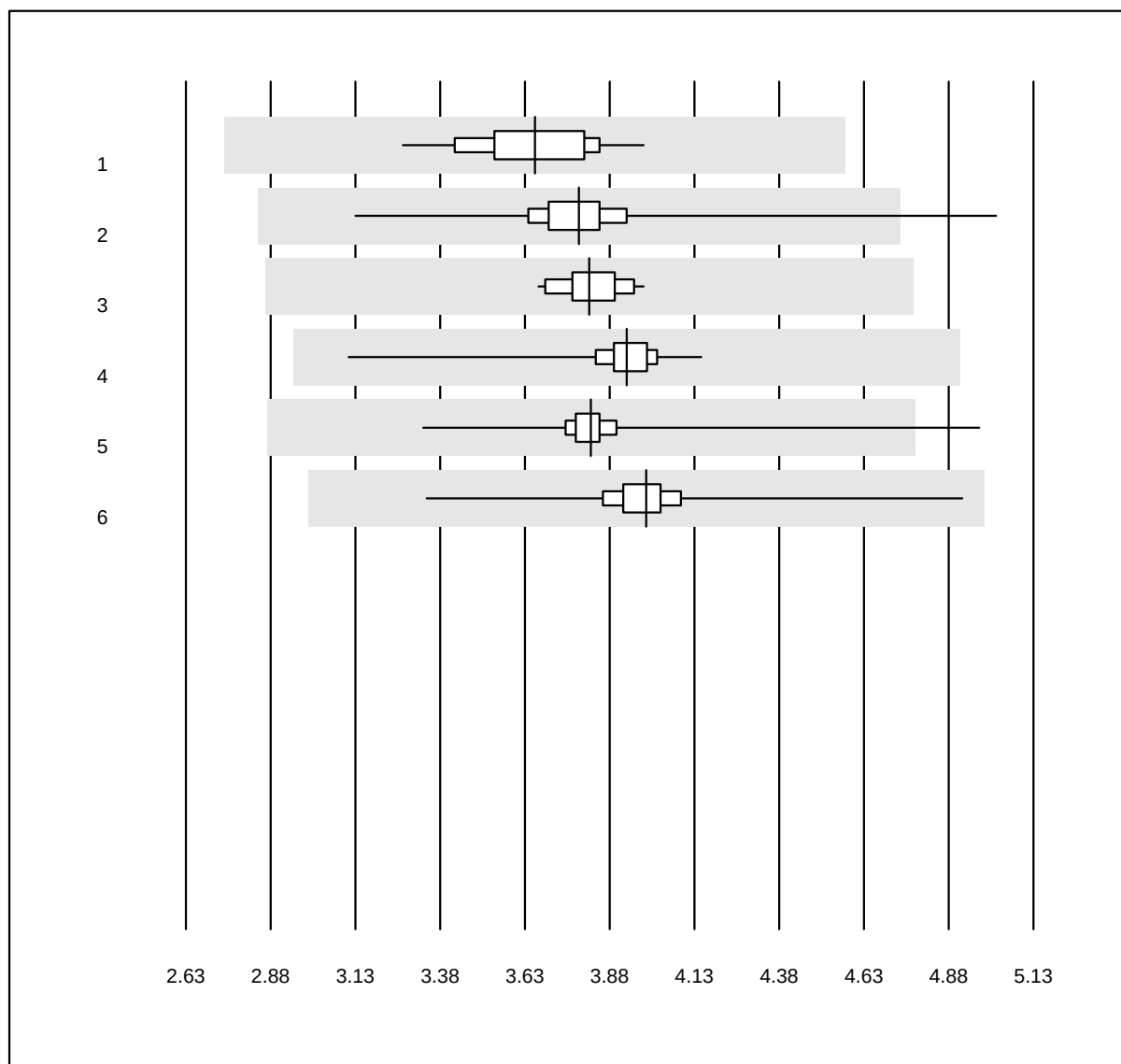
QUALAB Toleranz: 25%

Leucocytes (G/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Micros 60          | 44    | 100.0 | 0.0       | 0.0       | 5.20         | 5.8  | e    |
| 2 Mythic             | 193   | 99.0  | 0.0       | 1.0       | 5.50         | 5.6  | e    |
| 3 Swelab             | 26    | 100.0 | 0.0       | 0.0       | 5.83         | 5.5  | e    |
| 4 Sysmex Poch - 100i | 171   | 99.4  | 0.0       | 0.6       | 5.47         | 4.3  | e    |
| 5 Sysmex XP 300      | 558   | 99.1  | 0.4       | 0.5       | 5.72         | 4.0  | e    |
| 6 Sysmex XQ-320      | 223   | 96.9  | 1.3       | 1.8       | 5.79         | 5.6  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

## Erythrocytes



QUALAB Toleranz: 25%

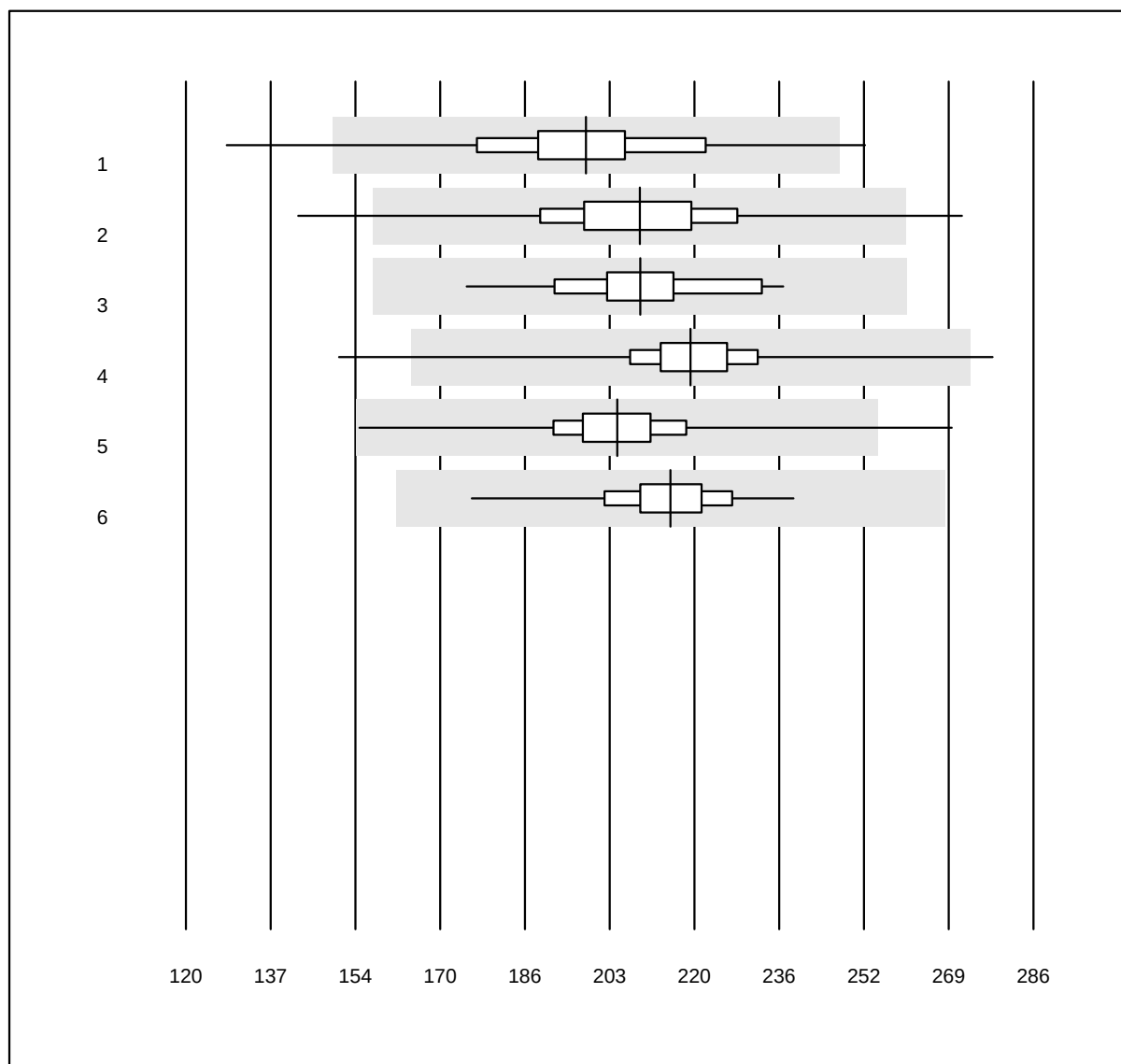
Erythrocytes (T/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Micros 60          | 44    | 95.5  | 0.0       | 4.5       | 3.66         | 4.6  | e    |
| 2 Mythic             | 194   | 98.5  | 0.5       | 1.0       | 3.79         | 4.4  | e    |
| 3 Swelab             | 26    | 100.0 | 0.0       | 0.0       | 3.82         | 2.3  | e    |
| 4 Sysmex Poch - 100i | 169   | 99.4  | 0.0       | 0.6       | 3.93         | 2.5  | e    |
| 5 Sysmex XP 300      | 555   | 98.4  | 0.2       | 1.4       | 3.82         | 2.6  | e    |
| 6 Sysmex XQ-320      | 224   | 97.8  | 0.0       | 2.2       | 3.99         | 4.0  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)



## Thrombocytes



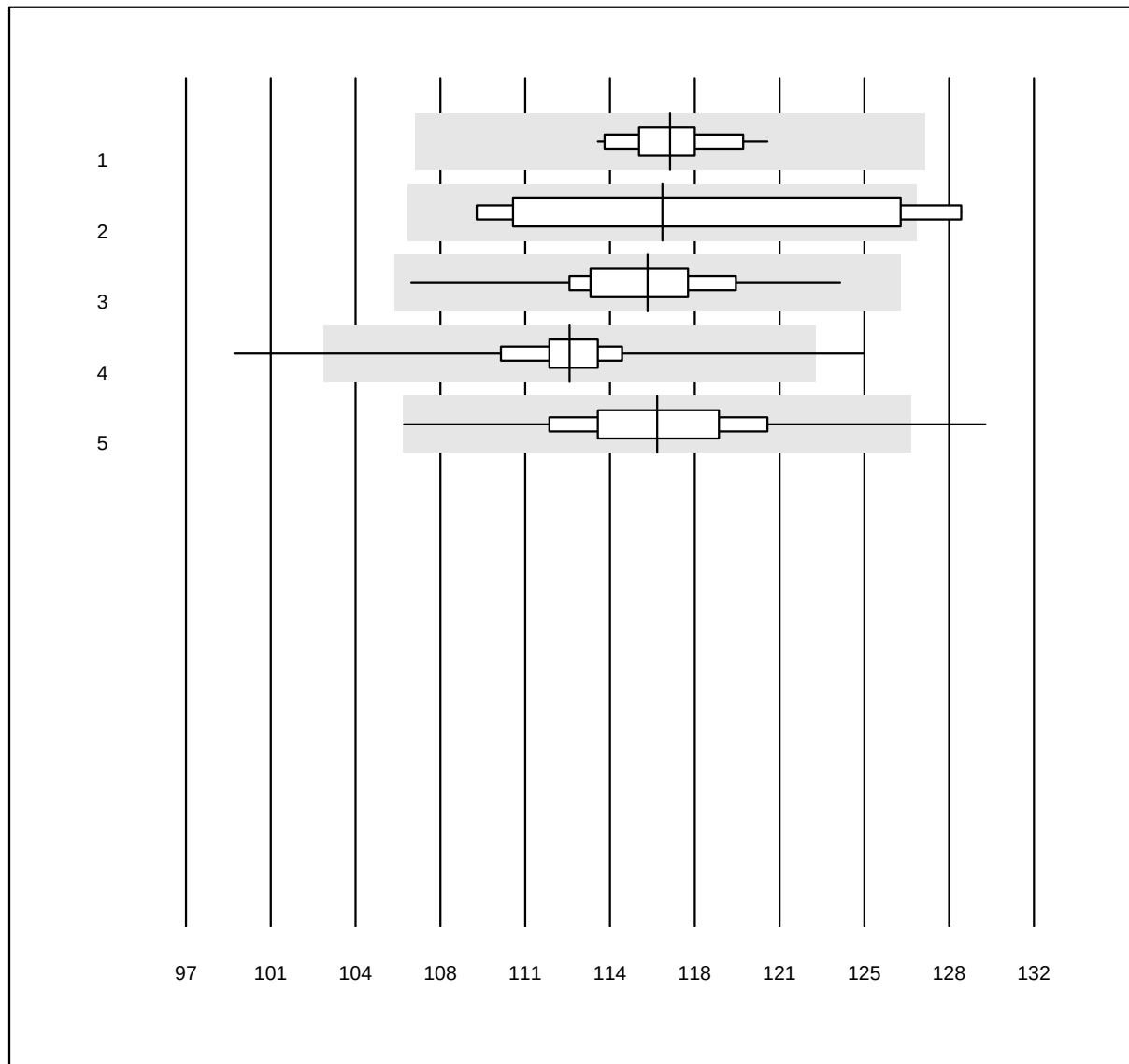
QUALAB Toleranz: 25%

Thrombocytes (G/l)

| No. Methode          | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Micros 60          | 44    | 93.2 | 4.5       | 2.3       | 198.4        | 9.8  | e    |
| 2 Mythic             | 194   | 98.5 | 1.0       | 0.5       | 208.9        | 8.2  | e    |
| 3 Swelab             | 26    | 96.2 | 0.0       | 3.8       | 209.0        | 6.5  | e    |
| 4 Sysmex XP 300      | 558   | 98.6 | 0.5       | 0.9       | 218.8        | 5.1  | e    |
| 5 Sysmex XQ-320      | 224   | 98.2 | 0.9       | 0.9       | 204.5        | 6.2  | e    |
| 6 Sysmex Poch - 100i | 171   | 98.2 | 0.0       | 1.8       | 214.9        | 4.5  | e    |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Hemoglobin H2



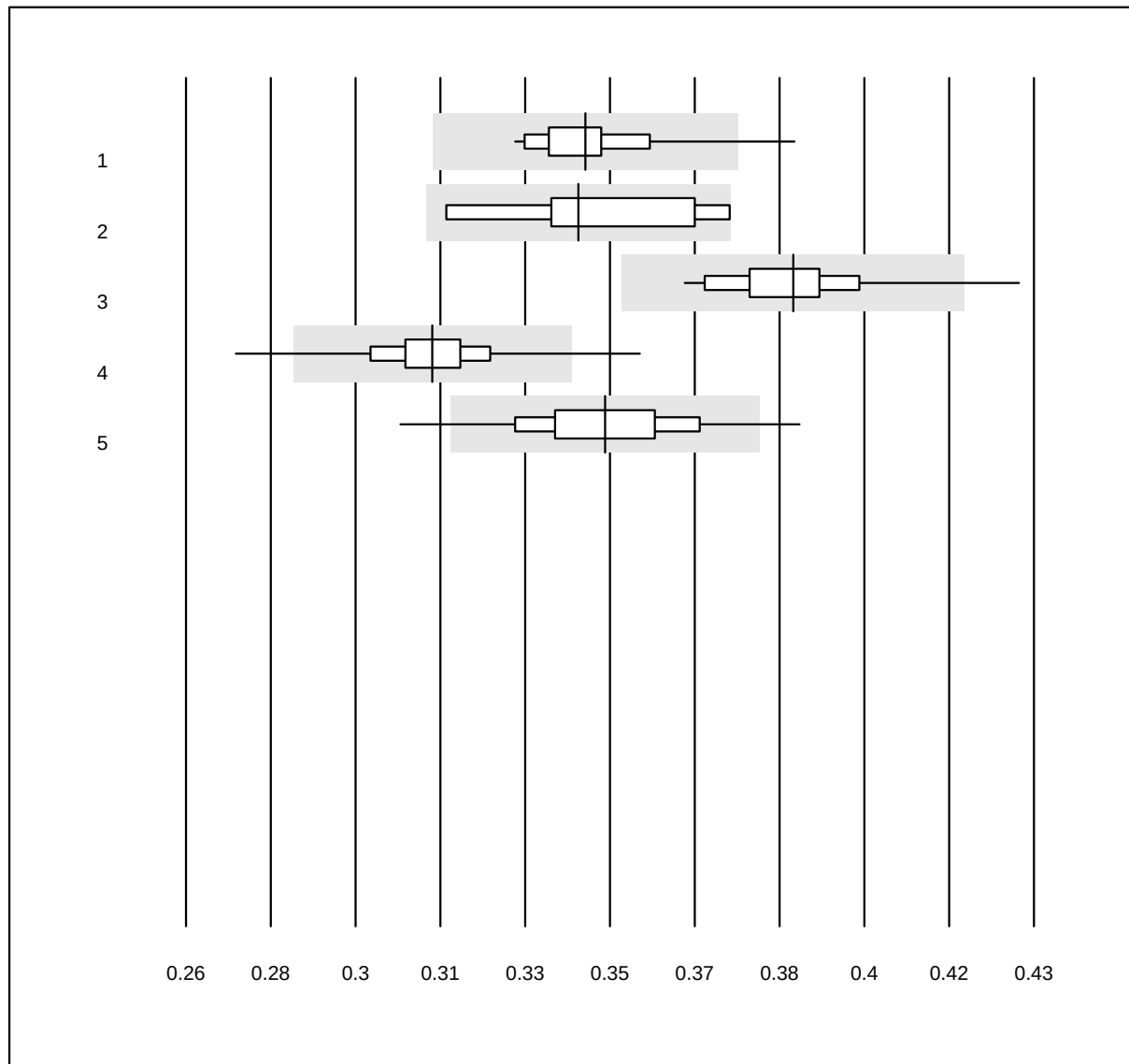
QUALAB Toleranz: 9%

Hemoglobin H2 (g/l)

| No. Methode                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Celltac Alpha (Nihon Kohden) | 43    | 93.0 | 0.0       | 7.0       | 117.0        | 1.6  | e    |
| 2 Dymind DP-H10                | 9     | 88.9 | 11.1      | 0.0       | 116.7        | 6.6  | e*   |
| 3 MEK-1303/5                   | 82    | 95.1 | 0.0       | 4.9       | 116.1        | 2.7  | e    |
| 4 Microsemi                    | 935   | 97.5 | 0.6       | 1.8       | 112.8        | 2.1  | e    |
| 5 Zybio Z3                     | 323   | 96.9 | 0.3       | 2.8       | 116.5        | 3.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Hematocrit H2



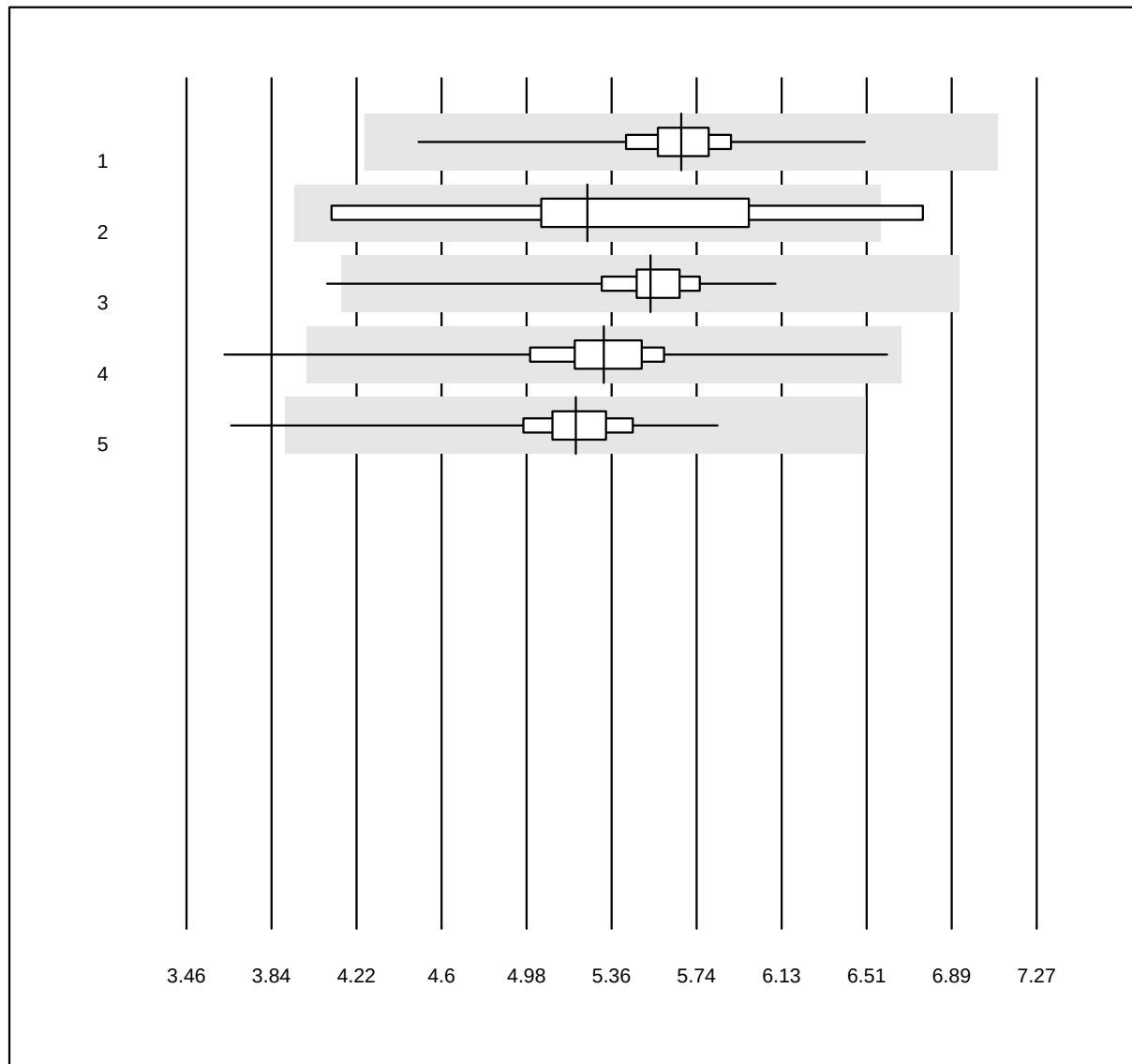
QUALAB Toleranz: 9%

Hematocrit H2 (l/l)

| No. Methode                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Celltac Alpha (Nihon Kohden) | 43    | 83.7 | 4.7       | 11.6      | 0.34         | 3.4  | e    |
| 2 Dymind DP-H10                | 9     | 88.9 | 0.0       | 11.1      | 0.34         | 5.4  | e*   |
| 3 MEK-1303/5                   | 82    | 92.7 | 3.7       | 3.7       | 0.38         | 3.4  | e    |
| 4 Microsemi                    | 936   | 96.5 | 1.1       | 2.5       | 0.31         | 3.2  | e    |
| 5 Zybio Z3                     | 324   | 93.5 | 3.4       | 3.1       | 0.34         | 4.2  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Leucocytes H2



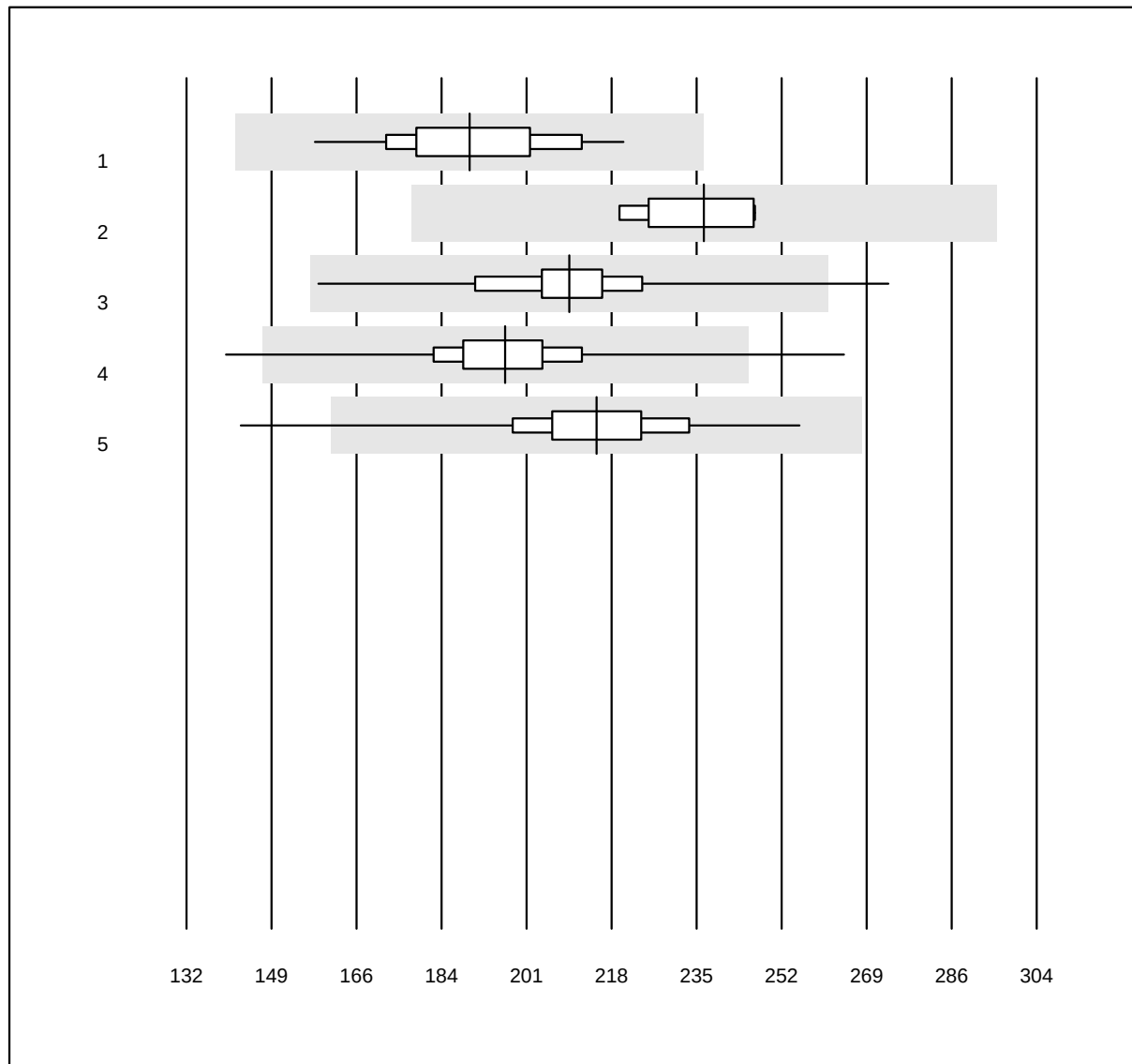
QUALAB Toleranz: 25%

Leucocytes H2 (G/l)

| No. Methode                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Celltac Alpha (Nihon Kohden) | 43    | 97.7 | 0.0       | 2.3       | 5.68         | 4.8  | e    |
| 2 Dymind DP-H10                | 9     | 88.9 | 11.1      | 0.0       | 5.26         | 13.9 | e*   |
| 3 MEK-1303/5                   | 82    | 98.8 | 1.2       | 0.0       | 5.54         | 4.9  | e    |
| 4 Microsemi                    | 936   | 98.8 | 0.4       | 0.7       | 5.33         | 4.8  | e    |
| 5 Zybio Z3                     | 324   | 98.5 | 0.6       | 0.9       | 5.20         | 4.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Thrombocytes H2



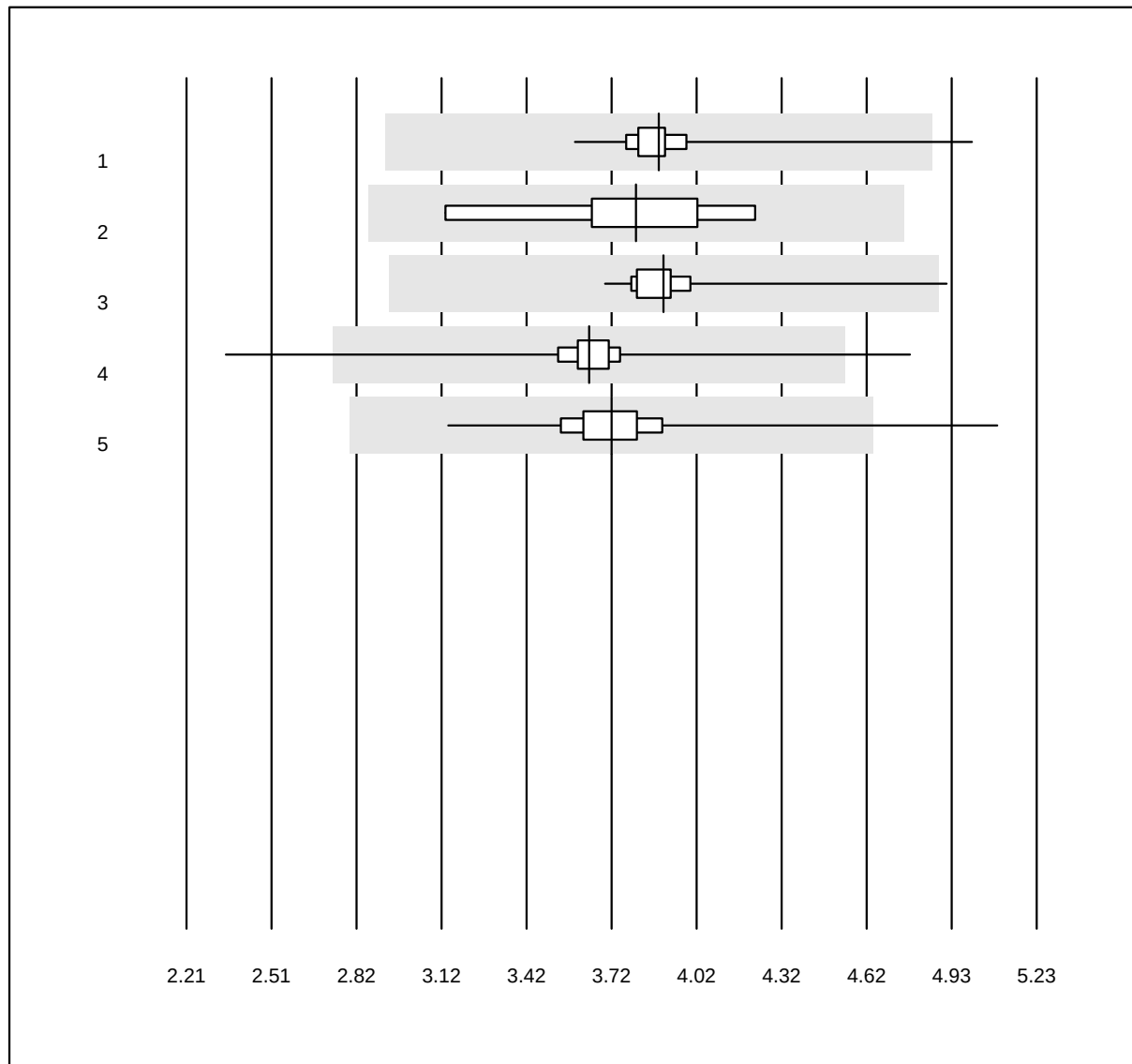
QUALAB Toleranz: 25%

Thrombocytes H2 (G/l)

| No. Methode                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Celltac Alpha (Nihon Kohden) | 43    | 95.3 | 0.0       | 4.7       | 189.3        | 8.0  | e    |
| 2 Dymind DP-H10                | 9     | 88.9 | 0.0       | 11.1      | 236.7        | 4.6  | e    |
| 3 MEK-1303/5                   | 80    | 97.5 | 1.2       | 1.2       | 209.5        | 7.7  | e    |
| 4 Microsemi                    | 936   | 97.3 | 0.7       | 1.9       | 196.5        | 6.5  | e    |
| 5 Zybio Z3                     | 324   | 98.5 | 0.9       | 0.6       | 215.0        | 6.9  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Erythrocytes H2



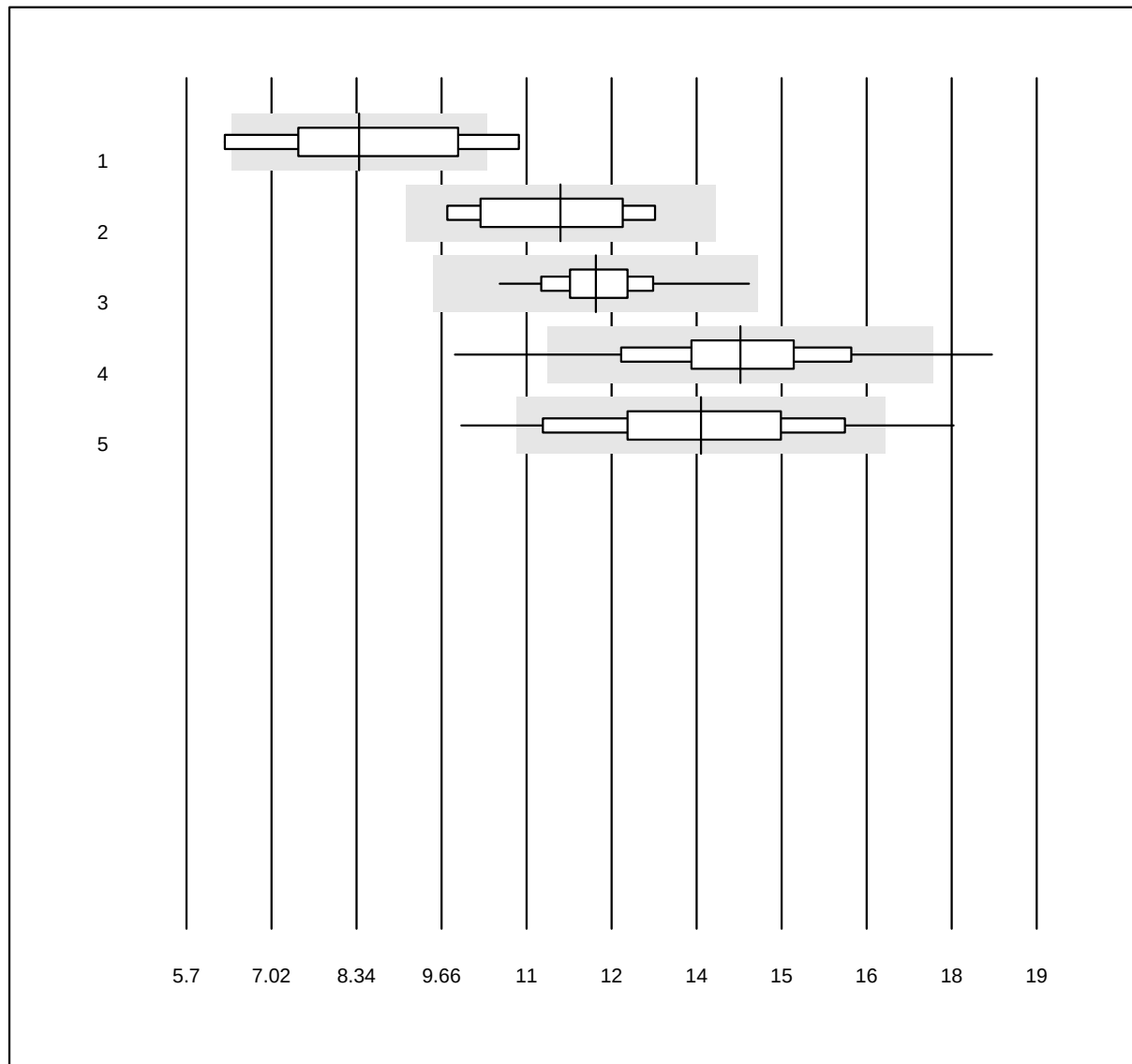
QUALAB Toleranz: 25%

Erythrocytes H2 (T/l)

| No. Methode                    | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Celltac Alpha (Nihon Kohden) | 43    | 93.0  | 2.3       | 4.7       | 3.89         | 5.0  | e    |
| 2 Dymind DP-H10                | 9     | 100.0 | 0.0       | 0.0       | 3.81         | 8.3  | e    |
| 3 MEK-1303/5                   | 82    | 95.1  | 1.2       | 3.7       | 3.90         | 4.5  | e    |
| 4 Microsemi                    | 936   | 97.6  | 0.4       | 1.9       | 3.64         | 3.9  | e    |
| 5 Zybio Z3                     | 324   | 97.8  | 0.6       | 1.5       | 3.72         | 4.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## CRP H2



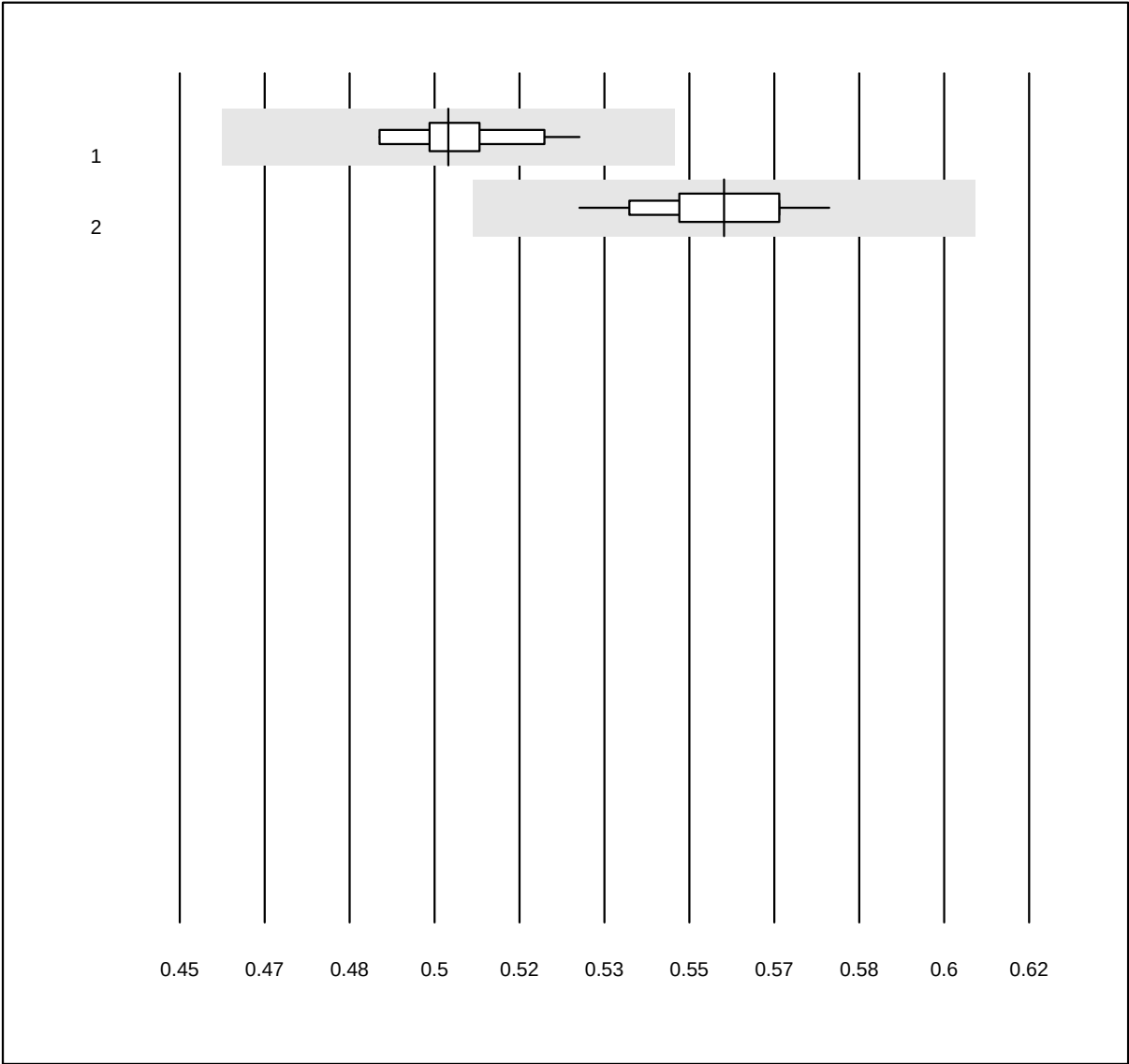
QUALAB Toleranz: 21%  
( < 10.0: +/- 2.0 mg/l)

CRP H2 (mg/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Celltac chemi | 17    | 35.3  | 17.6      | 47.1      | 8.4          | 18.8 | e*   |
| 2 Dymind DP-H10 | 8     | 100.0 | 0.0       | 0.0       | 11.6         | 10.0 | e*   |
| 3 MEK-1303/5    | 74    | 100.0 | 0.0       | 0.0       | 12.1         | 5.9  | e    |
| 4 Microsemi     | 919   | 92.3  | 4.0       | 3.7       | 14.4         | 9.9  | e    |
| 5 Zybio Z3      | 306   | 85.0  | 11.4      | 3.6       | 13.7         | 13.0 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Hematocrit



QUALAB Toleranz: 9%

Hematocrit (l/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 EPOC      | 16    | 100.0 | 0.0       | 0.0       | 0.50         | 2.2  | e    |
| 2 iStat     | 19    | 100.0 | 0.0       | 0.0       | 0.56         | 2.1  | e    |



Hemoglobin BG

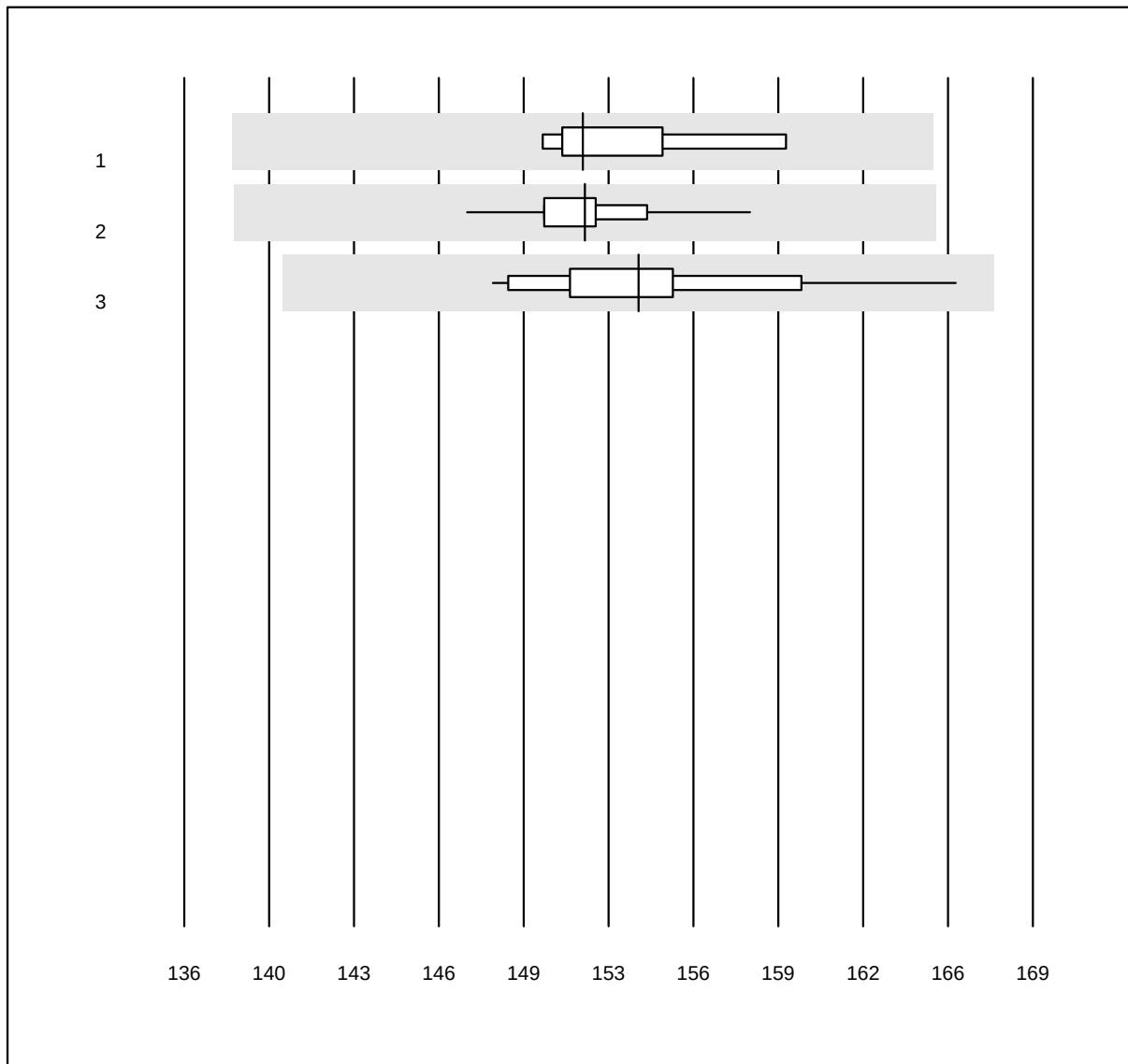


QUALAB Toleranz: 9%

Hemoglobin BG (g/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | iStat | 14    | 100.0 | 0.0       | 0.0       | 191.2        | 1.5  | e    |

## Hemoglobin



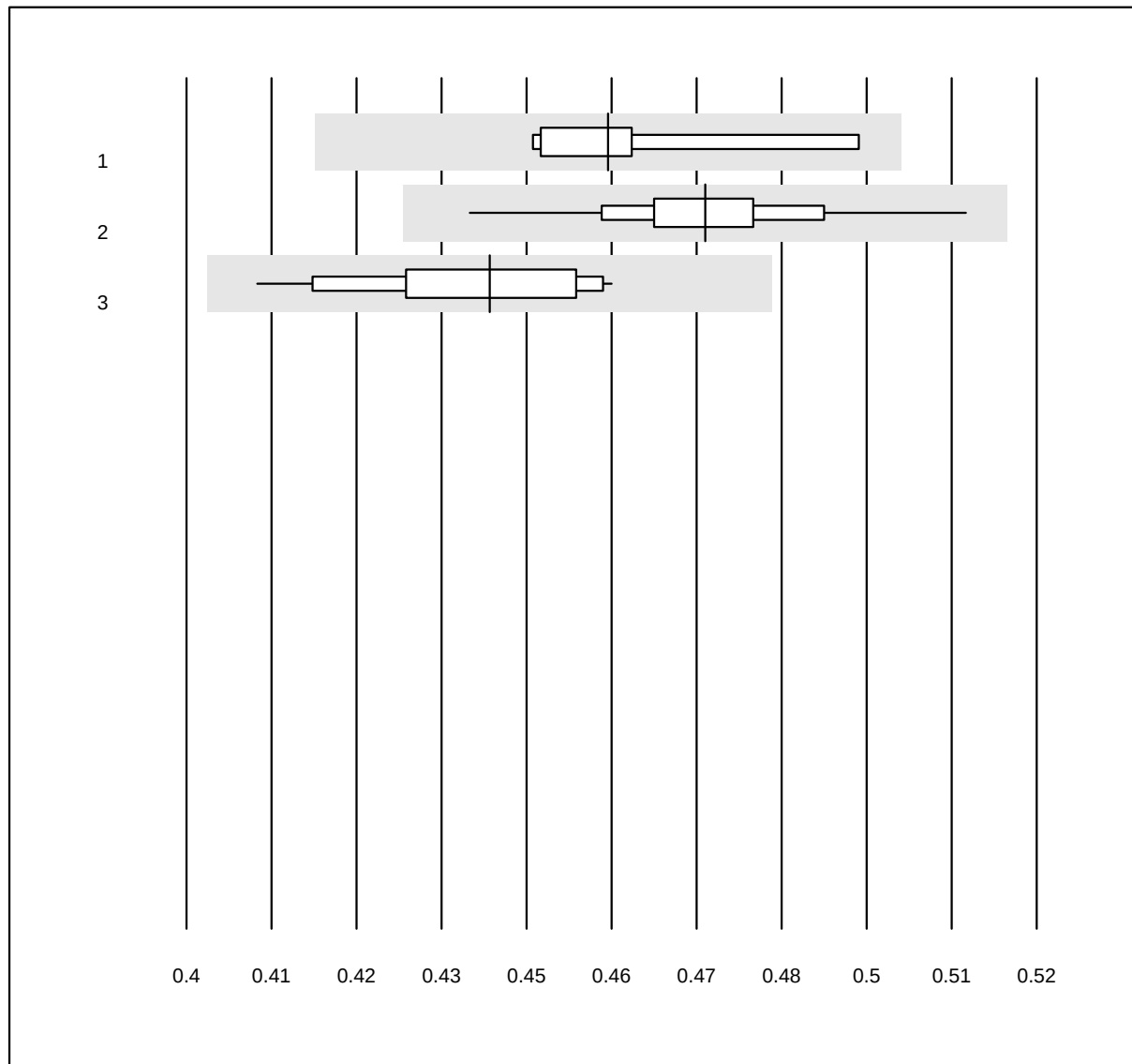
QUALAB Toleranz: 9%

Hemoglobin (g/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 151.5        | 2.0  | e    |
| 2 Sysmex         | 127   | 100.0 | 0.0       | 0.0       | 151.6        | 1.1  | e    |
| 3 Yumizen/Pentra | 15    | 100.0 | 0.0       | 0.0       | 153.7        | 2.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Hematocrit



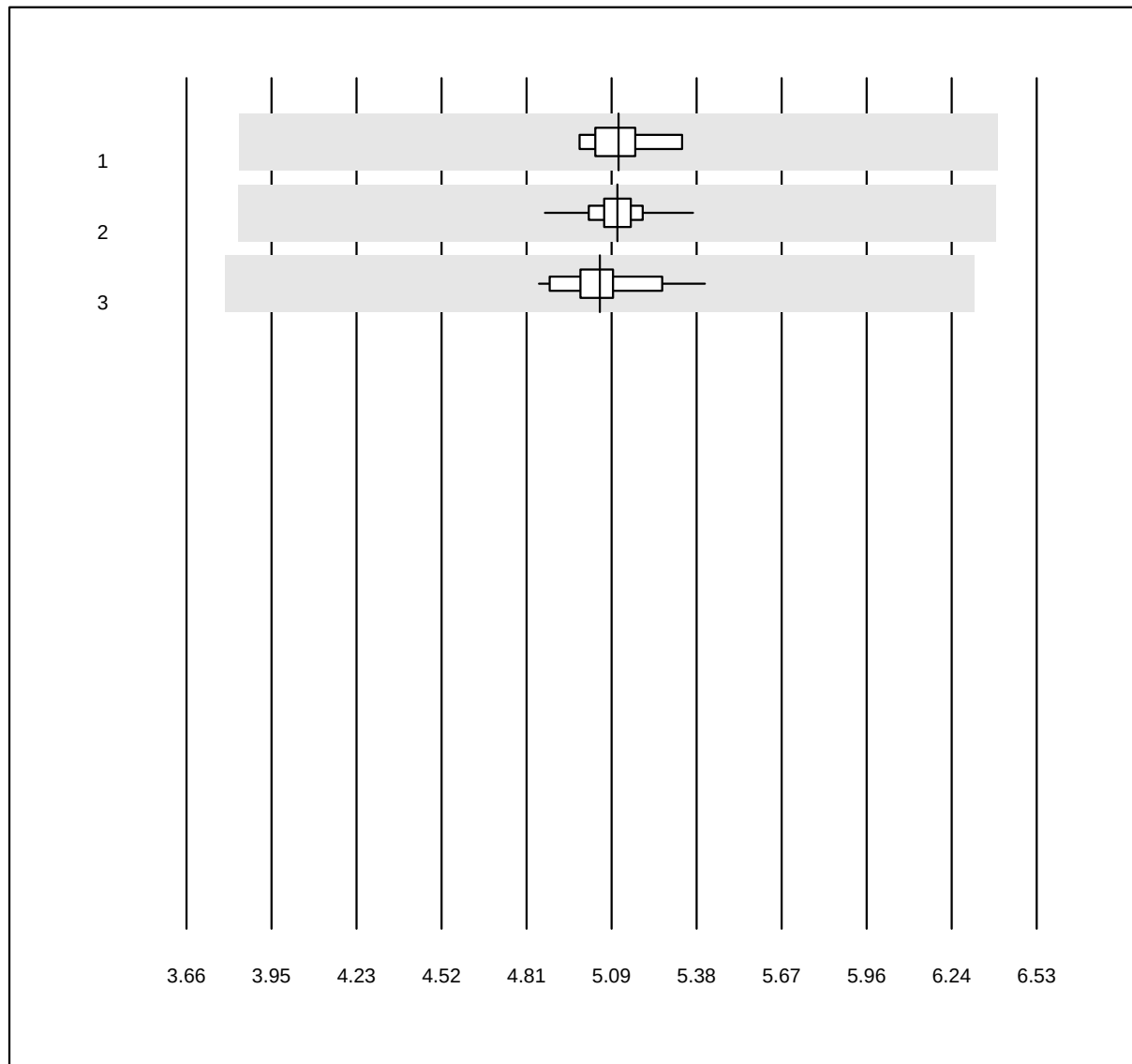
QUALAB Toleranz: 9%

Hematocrit (l/l)

| No. | Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Beckman        | 8     | 100.0 | 0.0       | 0.0       | 0.46         | 3.0  | e    |
| 2   | Sysmex         | 127   | 98.4  | 0.0       | 1.6       | 0.47         | 2.7  | e    |
| 3   | Yumizen/Pentra | 15    | 100.0 | 0.0       | 0.0       | 0.44         | 3.2  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Erythrocytes



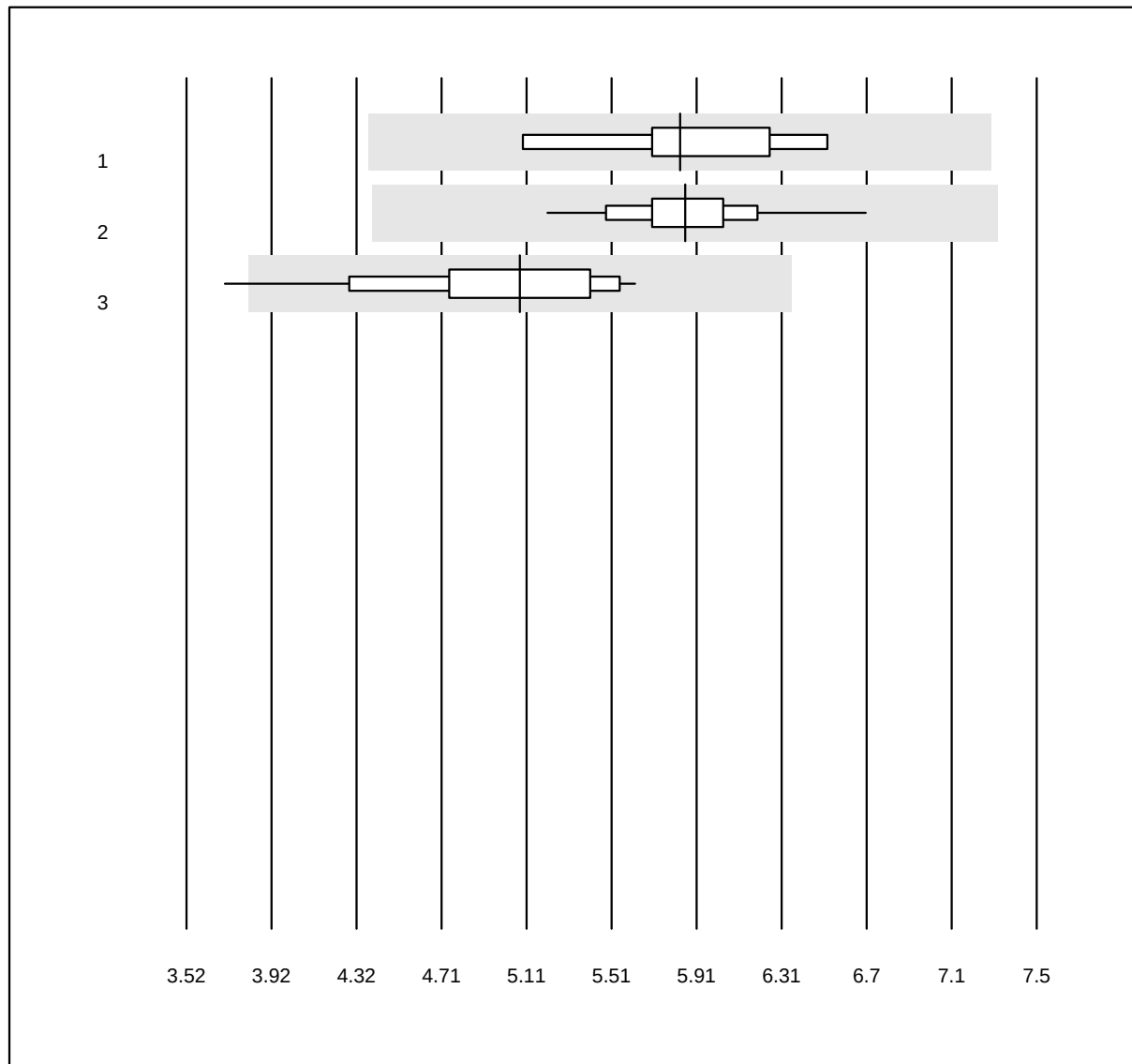
QUALAB Toleranz: 25%

Erythrocytes (T/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 5.12         | 2.0  | e    |
| 2 Sysmex         | 127   | 100.0 | 0.0       | 0.0       | 5.11         | 1.5  | e    |
| 3 Yumizen/Pentra | 15    | 100.0 | 0.0       | 0.0       | 5.06         | 2.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Leucocytes



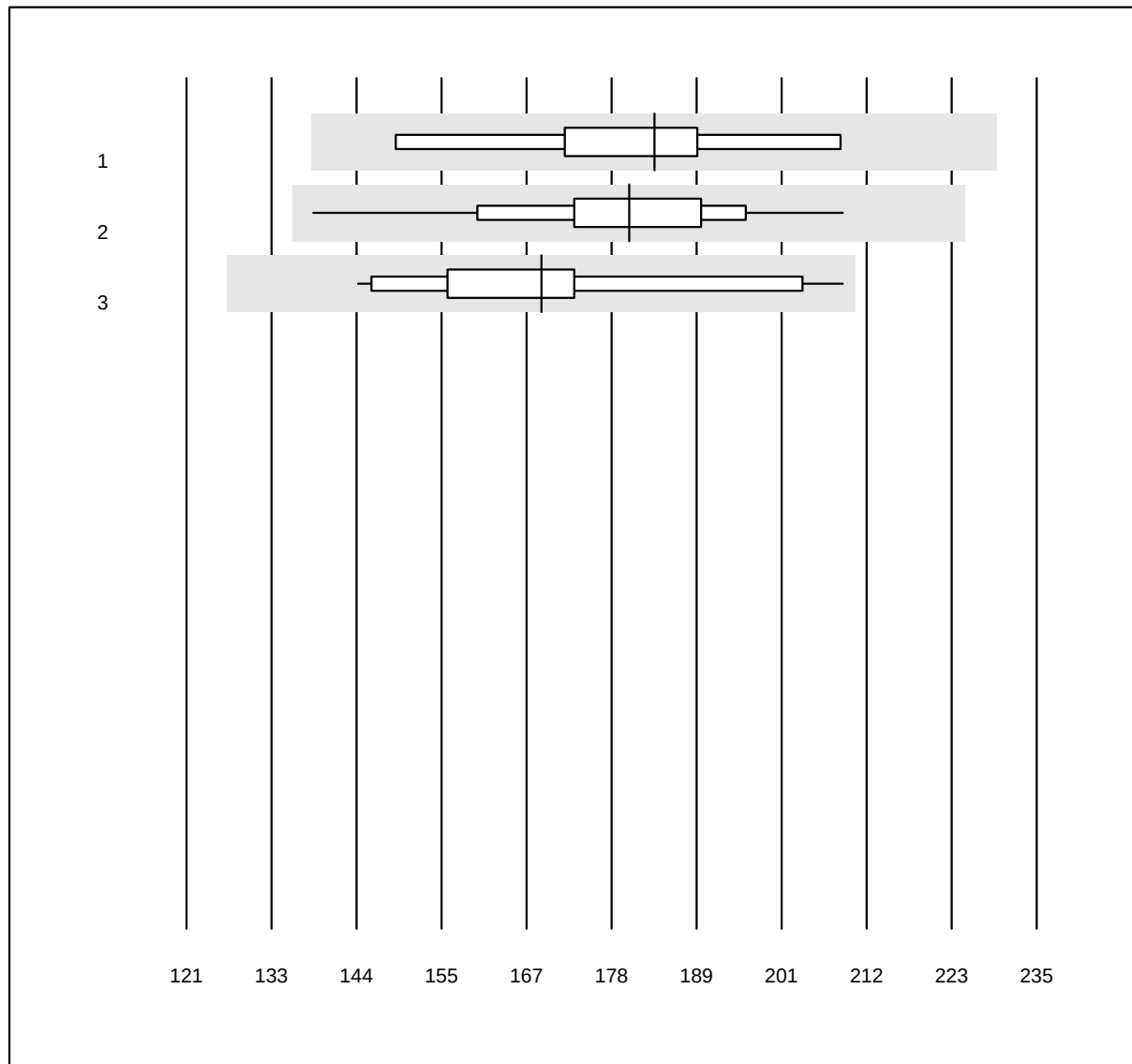
QUALAB Toleranz: 25%

Leucocytes (G/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 5.83         | 7.1  | e    |
| 2 Sysmex         | 126   | 100.0 | 0.0       | 0.0       | 5.85         | 4.4  | e    |
| 3 Yumizen/Pentra | 16    | 87.5  | 6.2       | 6.2       | 5.08         | 9.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Thrombocytes



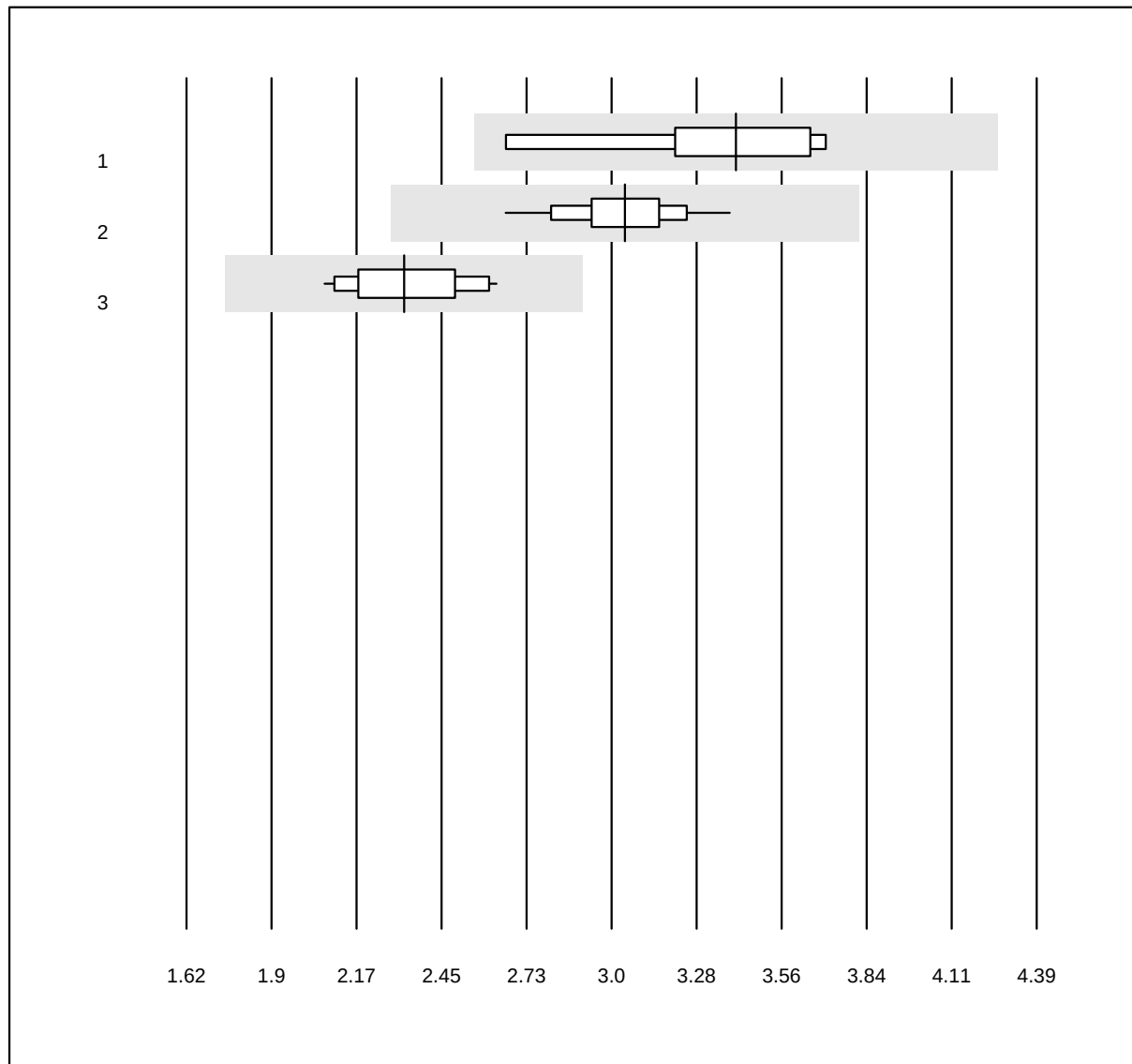
QUALAB Toleranz: 25%

Thrombocytes (G/l)

| No. | Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Beckman        | 8     | 100.0 | 0.0       | 0.0       | 183.8        | 9.0  | e*   |
| 2   | Sysmex         | 127   | 100.0 | 0.0       | 0.0       | 180.4        | 7.7  | e    |
| 3   | Yumizen/Pentra | 15    | 100.0 | 0.0       | 0.0       | 168.6        | 10.7 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Neutrophils



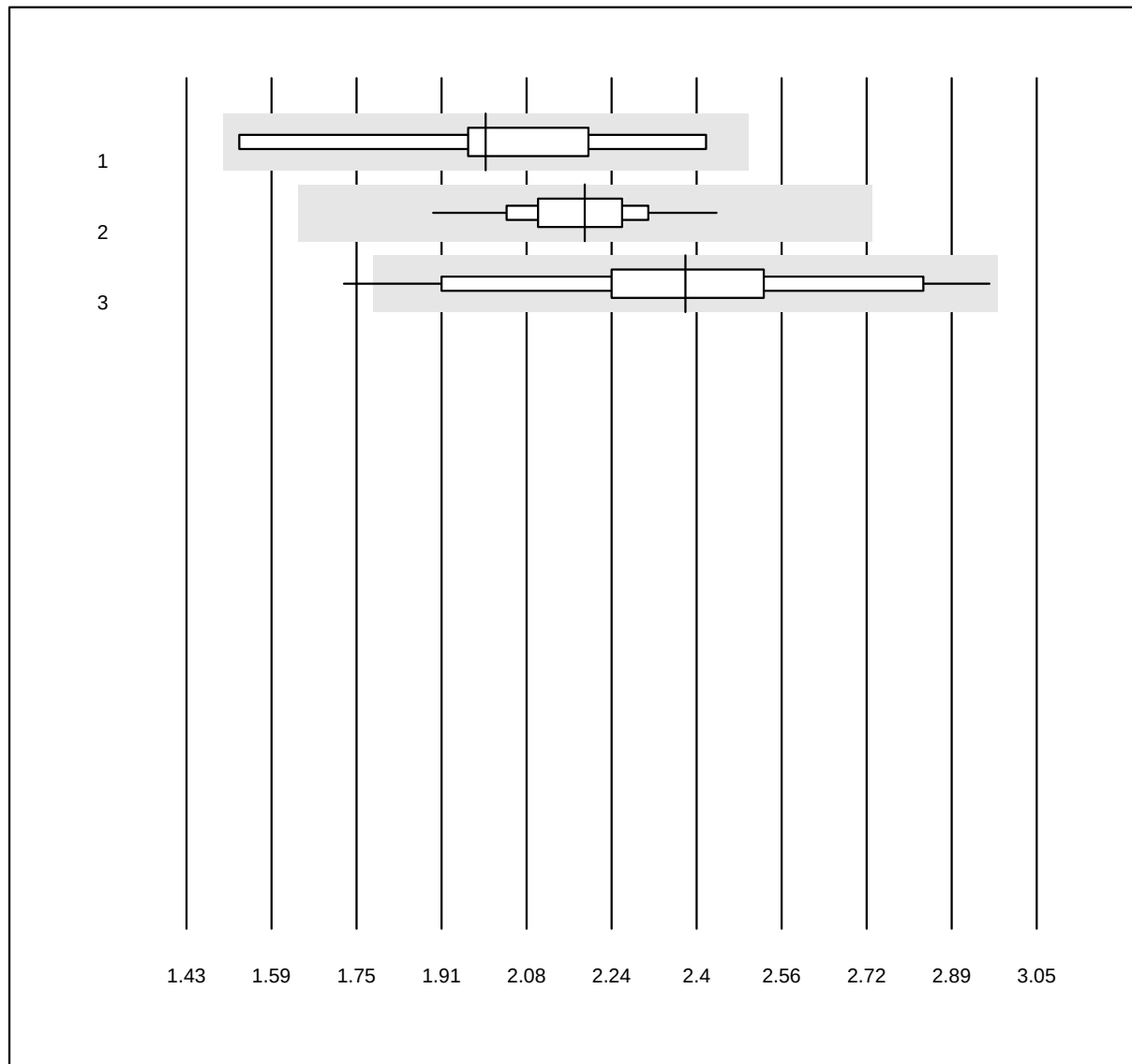
MQ Toleranz: 25%

Neutrophils (G/l)

| No. | Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Beckman        | 8     | 100.0 | 0.0       | 0.0       | 3.41         | 9.6  | e*   |
| 2   | Sysmex         | 127   | 100.0 | 0.0       | 0.0       | 3.05         | 5.4  | e    |
| 3   | Yumizen/Pentra | 15    | 86.7  | 0.0       | 13.3      | 2.33         | 7.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Lymphocytes



MQ Toleranz: 25%

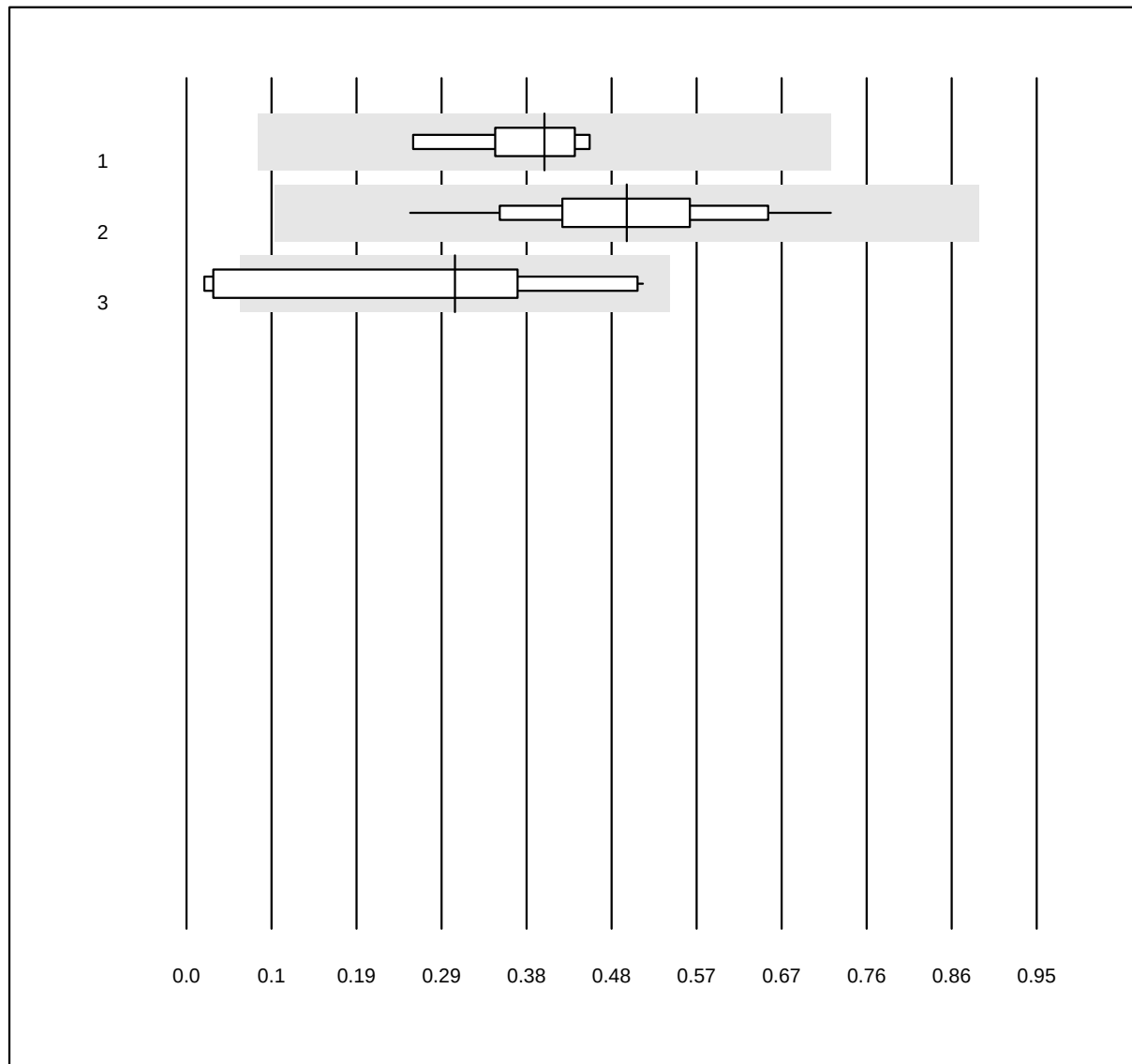
Lymphocytes (G/l)

| No. | Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Beckman        | 8     | 100.0 | 0.0       | 0.0       | 2.00         | 11.8 | a*   |
| 2   | Sysmex         | 127   | 100.0 | 0.0       | 0.0       | 2.19         | 4.9  | e    |
| 3   | Yumizen/Pentra | 15    | 93.3  | 6.7       | 0.0       | 2.38         | 12.3 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



## Monocytes



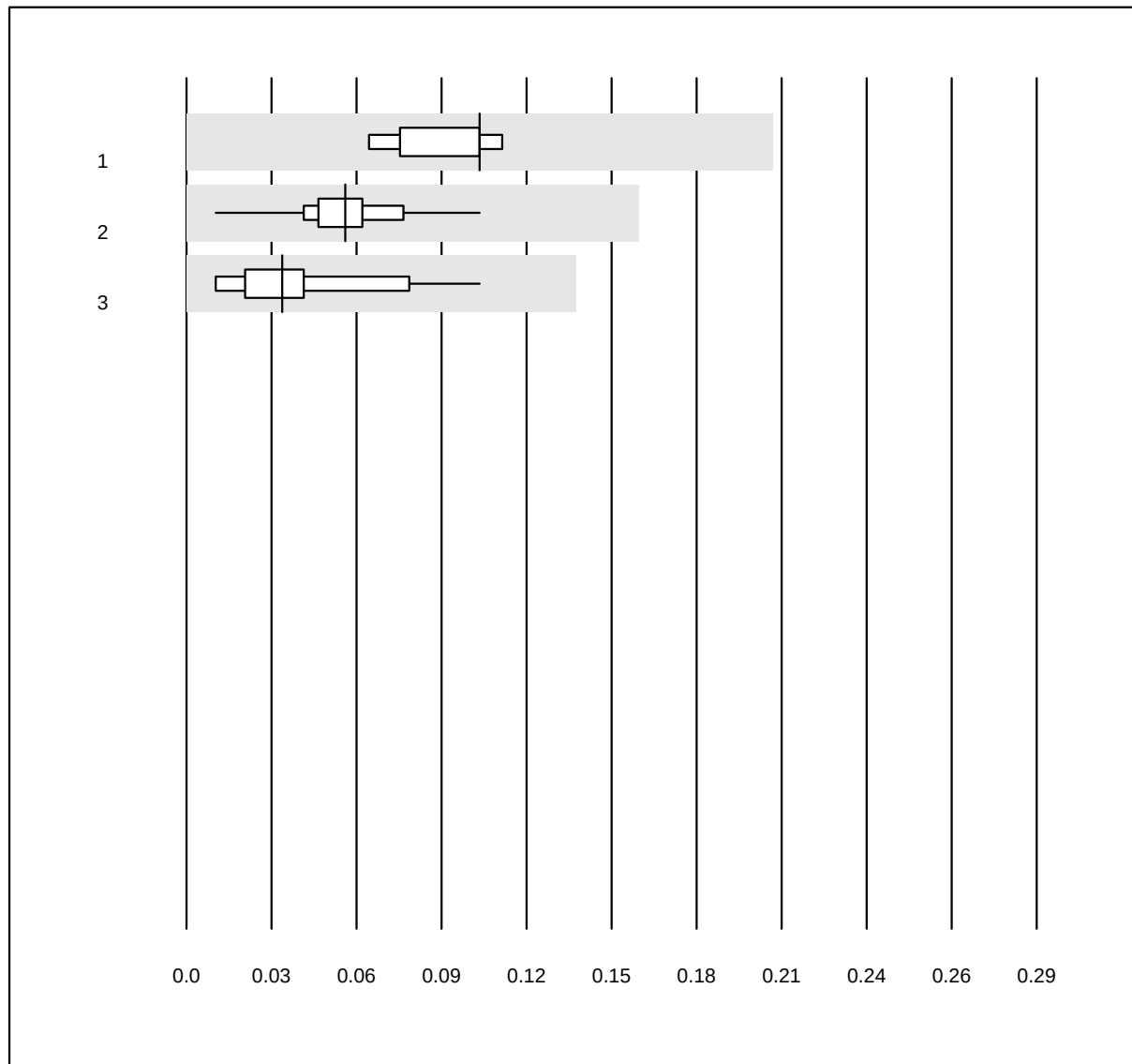
MQ Toleranz: 80%

Monocytes (G/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 0.40         | 16.3 | a    |
| 2 Sysmex         | 126   | 100.0 | 0.0       | 0.0       | 0.49         | 21.8 | e    |
| 3 Yumizen/Pentra | 15    | 73.3  | 26.7      | 0.0       | 0.30         | 64.6 | a*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Eosinophils



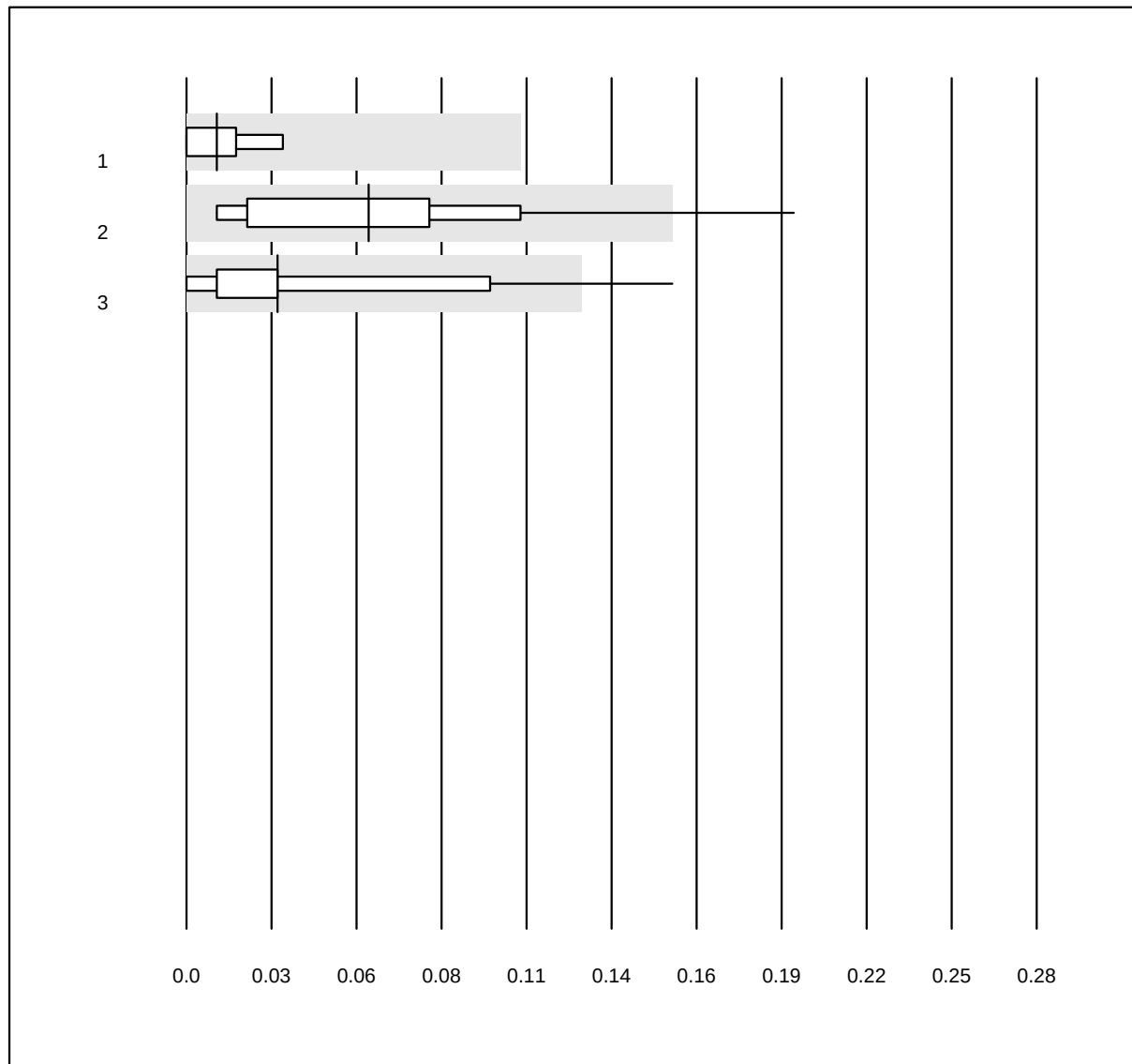
MQ Toleranz: 80%  
( < 0.13: +/- 0.1 G/l)

Eosinophils (G/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 0.10         | 18.4 | e    |
| 2 Sysmex         | 125   | 100.0 | 0.0       | 0.0       | 0.05         | 29.2 | e    |
| 3 Yumizen/Pentra | 15    | 100.0 | 0.0       | 0.0       | 0.03         | 71.8 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Basophiles



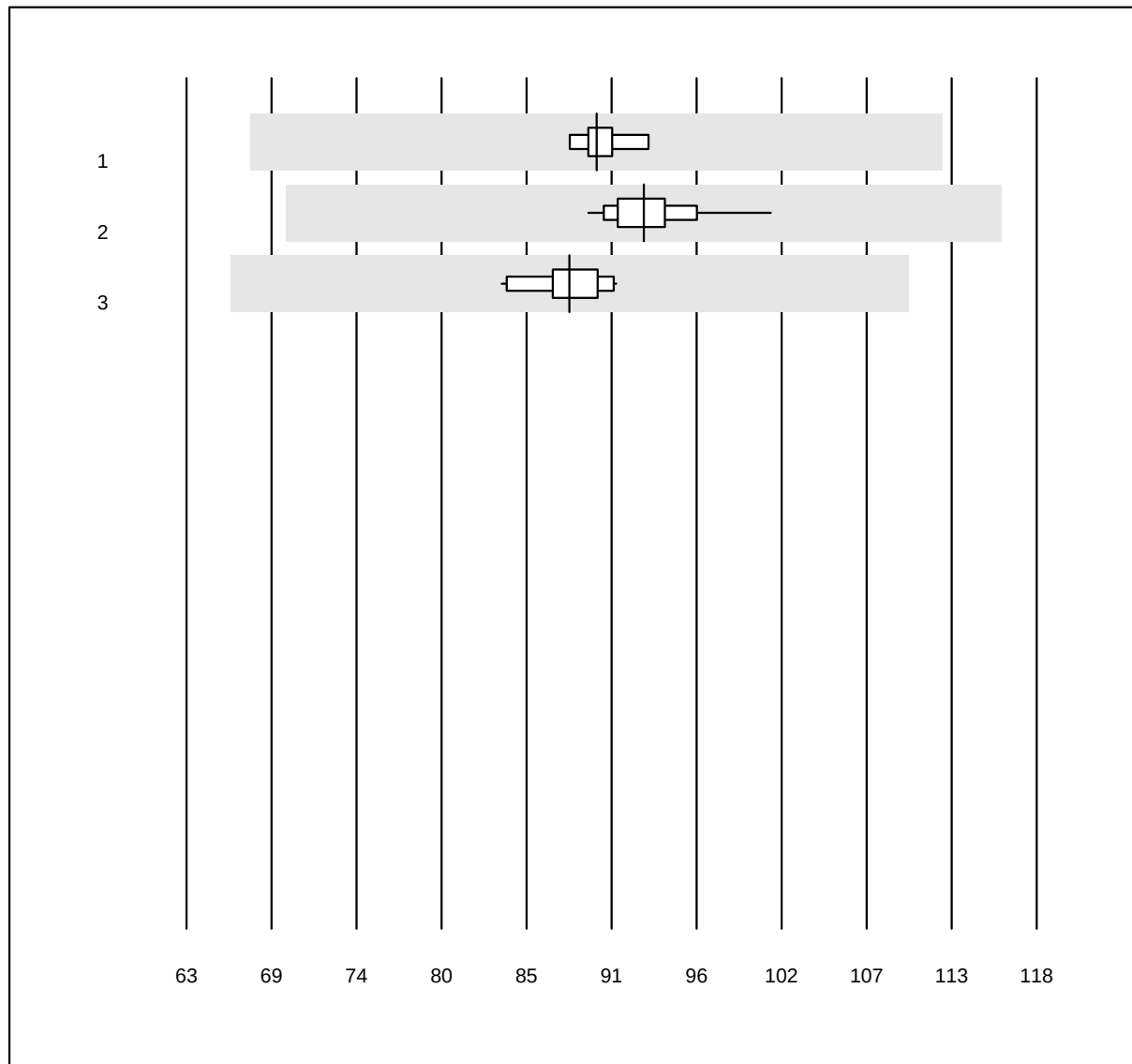
MQ Toleranz: 80%  
( < 0.13: +/- 0.1 G/l)

Basophiles (G/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK %  | Type |
|------------------|-------|-------|-----------|-----------|--------------|-------|------|
| 1 Beckman        | 8     | 100.0 | 0.0       | 0.0       | 0.01         | 106.1 | e    |
| 2 Sysmex         | 126   | 97.6  | 1.6       | 0.8       | 0.06         | 85.3  | a    |
| 3 Yumizen/Pentra | 15    | 93.3  | 6.7       | 0.0       | 0.03         | 132.7 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## MCV

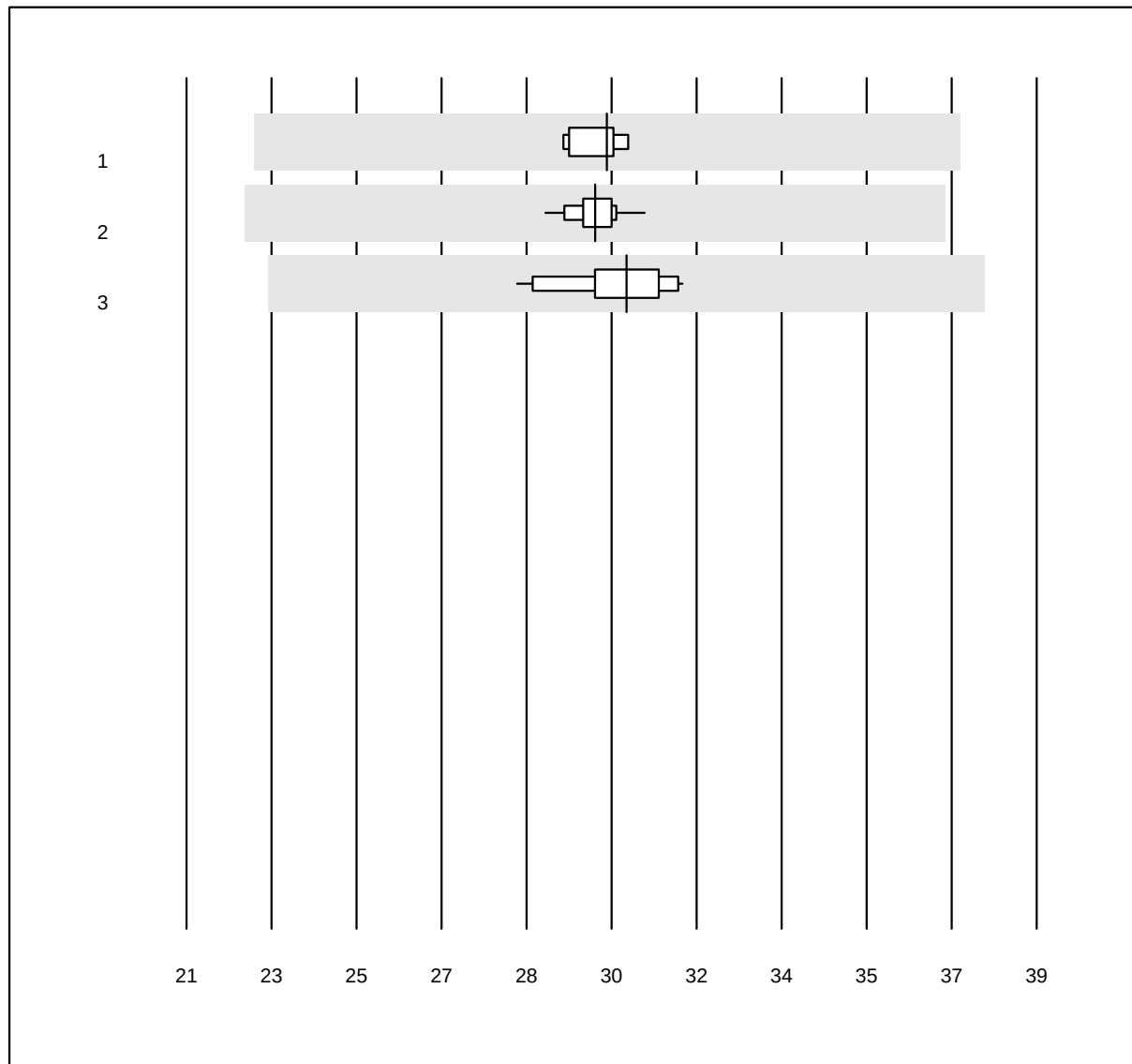


MQ Toleranz: 25%

MCV (fl)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 7     | 100.0 | 0.0       | 0.0       | 89.5         | 1.6  | e    |
| 2 Sysmex         | 117   | 100.0 | 0.0       | 0.0       | 92.6         | 2.6  | e    |
| 3 Yumizen/Pentra | 11    | 100.0 | 0.0       | 0.0       | 87.8         | 2.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

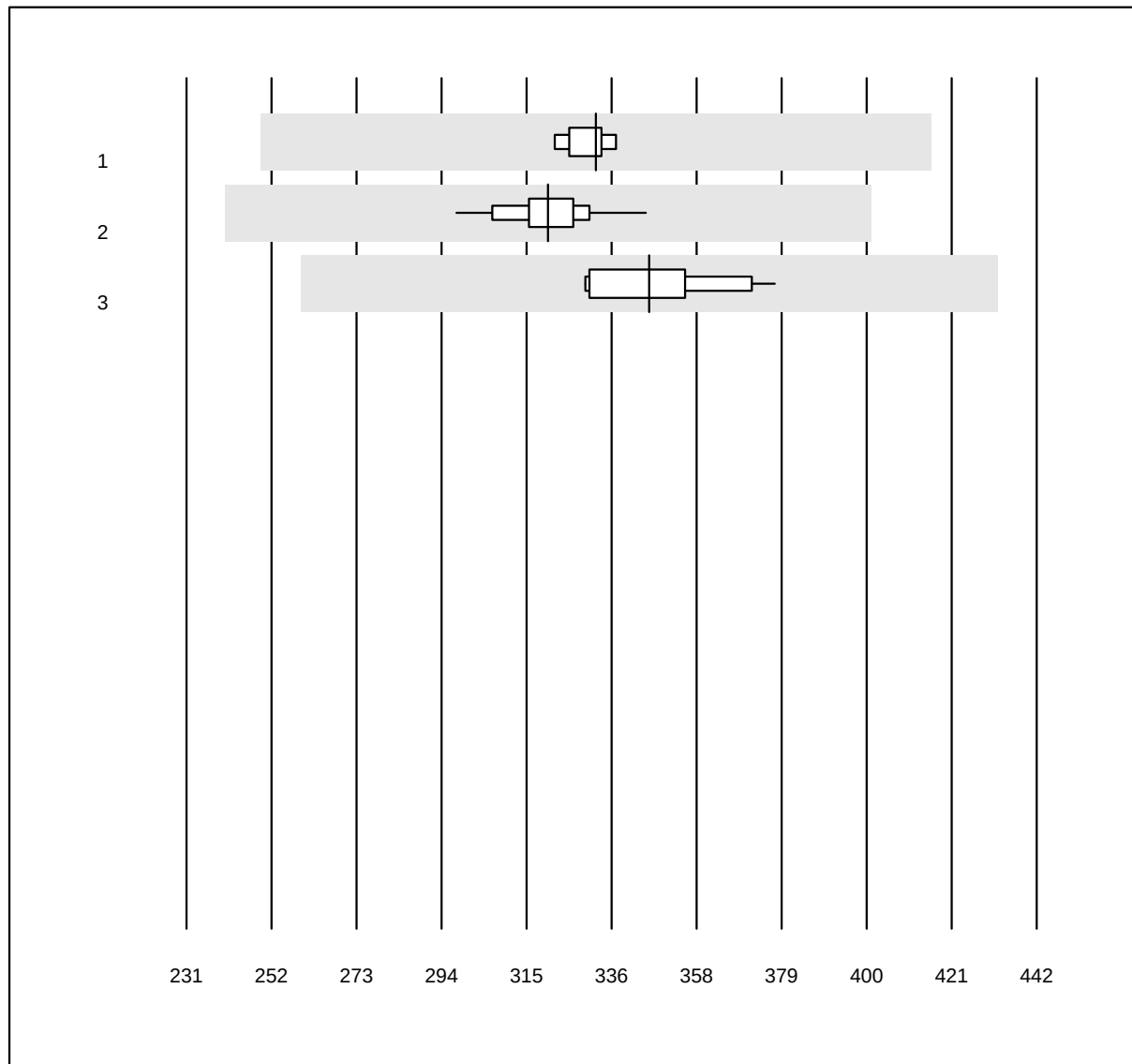
**MCH**

MQ Toleranz: 25%

MCH (pg)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 7     | 100.0 | 0.0       | 0.0       | 29.9         | 1.7  | e    |
| 2 Sysmex         | 117   | 100.0 | 0.0       | 0.0       | 29.7         | 1.4  | e    |
| 3 Yumizen/Pentra | 12    | 100.0 | 0.0       | 0.0       | 30.3         | 3.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

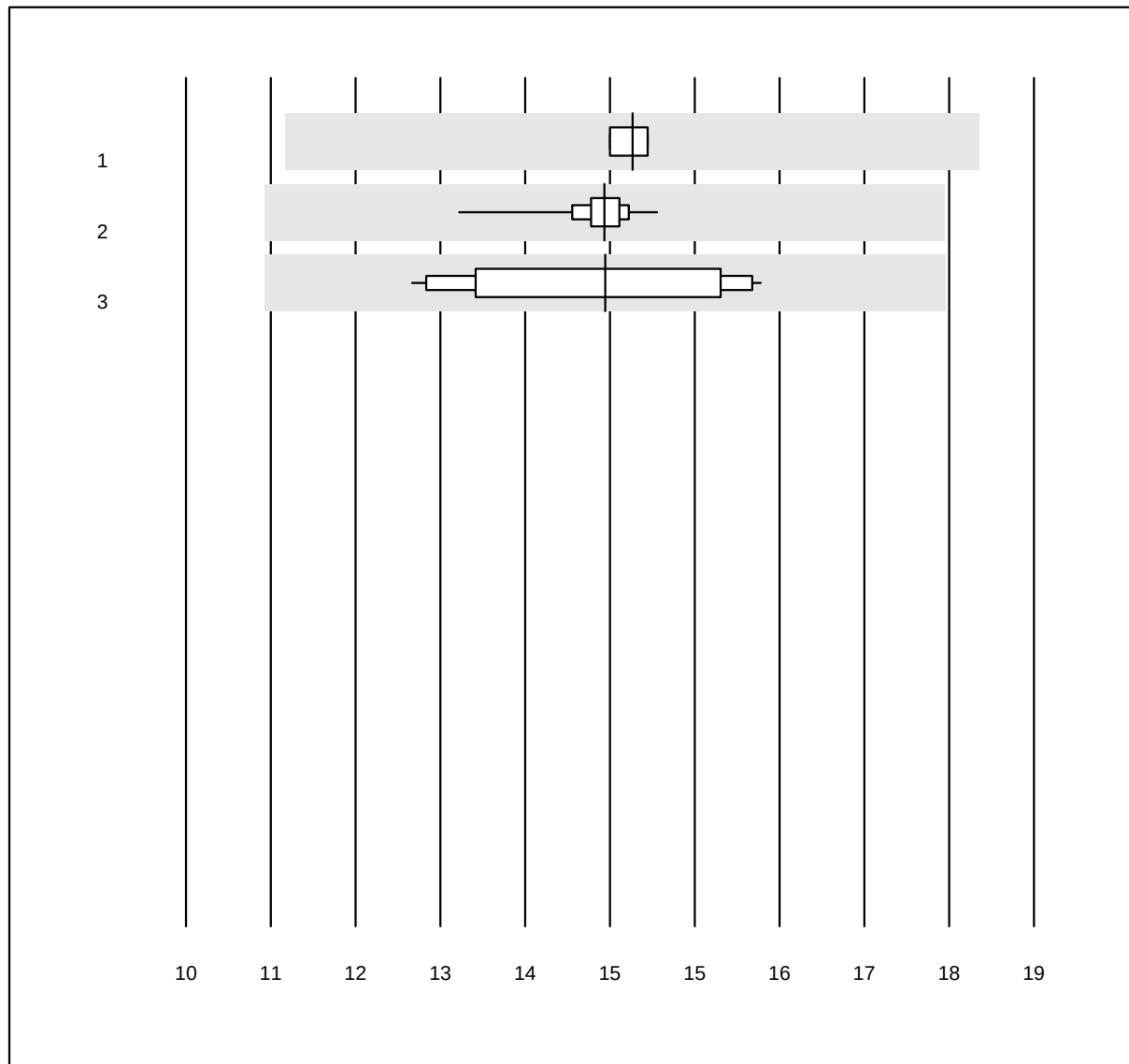
**MCHC**

MQ Toleranz: 25%

MCHC (g/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 7     | 100.0 | 0.0       | 0.0       | 333          | 1.5  | e    |
| 2 Sysmex         | 118   | 100.0 | 0.0       | 0.0       | 321          | 2.8  | e    |
| 3 Yumizen/Pentra | 12    | 100.0 | 0.0       | 0.0       | 346          | 4.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

**RDW**

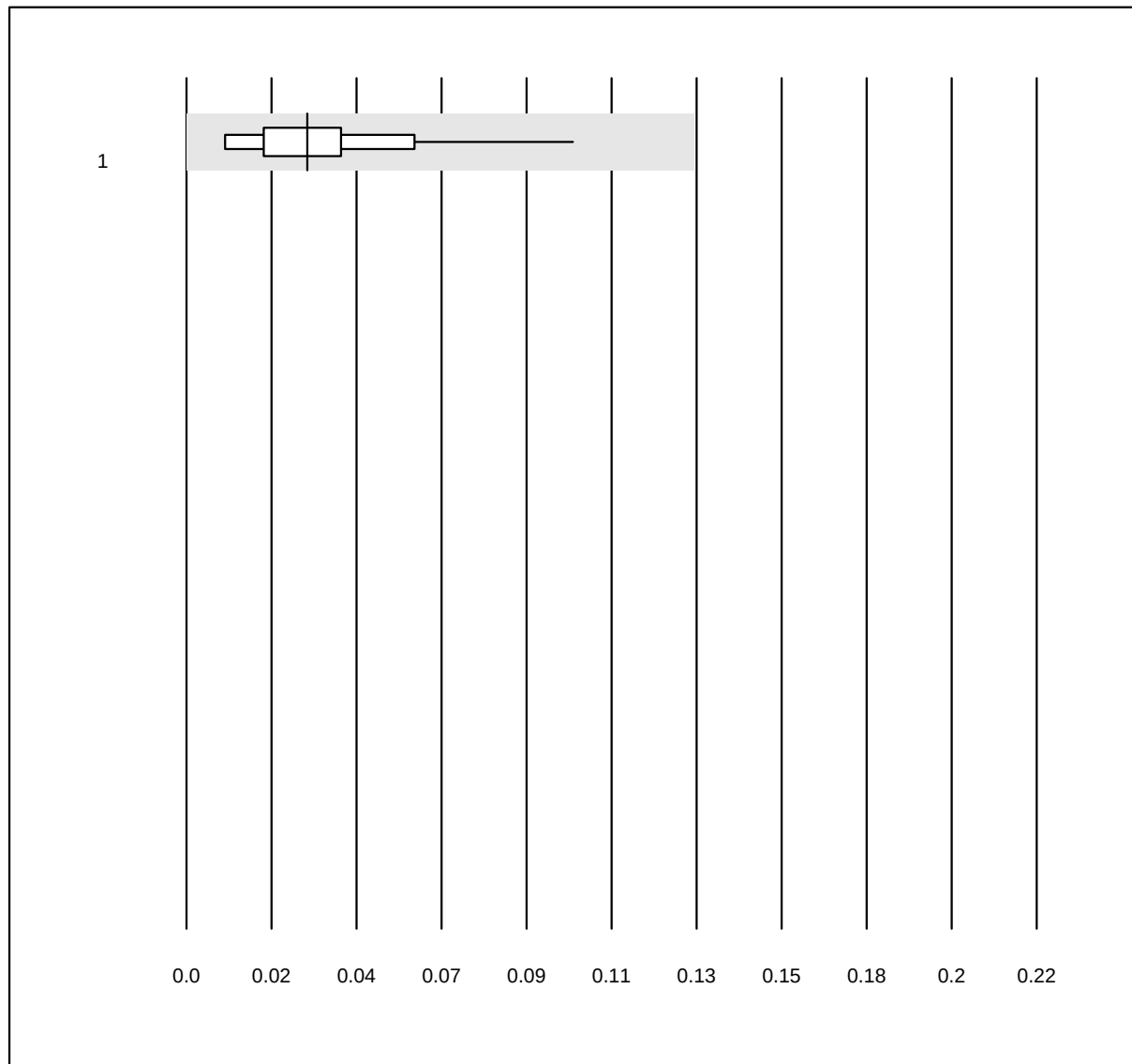
MQ Toleranz: 25%

RDW (%)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman        | 7     | 100.0 | 0.0       | 0.0       | 14.7         | 1.2  | e    |
| 2 Sysmex         | 113   | 98.2  | 0.0       | 1.8       | 14.4         | 2.0  | e    |
| 3 Yumizen/Pentra | 12    | 100.0 | 0.0       | 0.0       | 14.4         | 8.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Immature Granulocytes



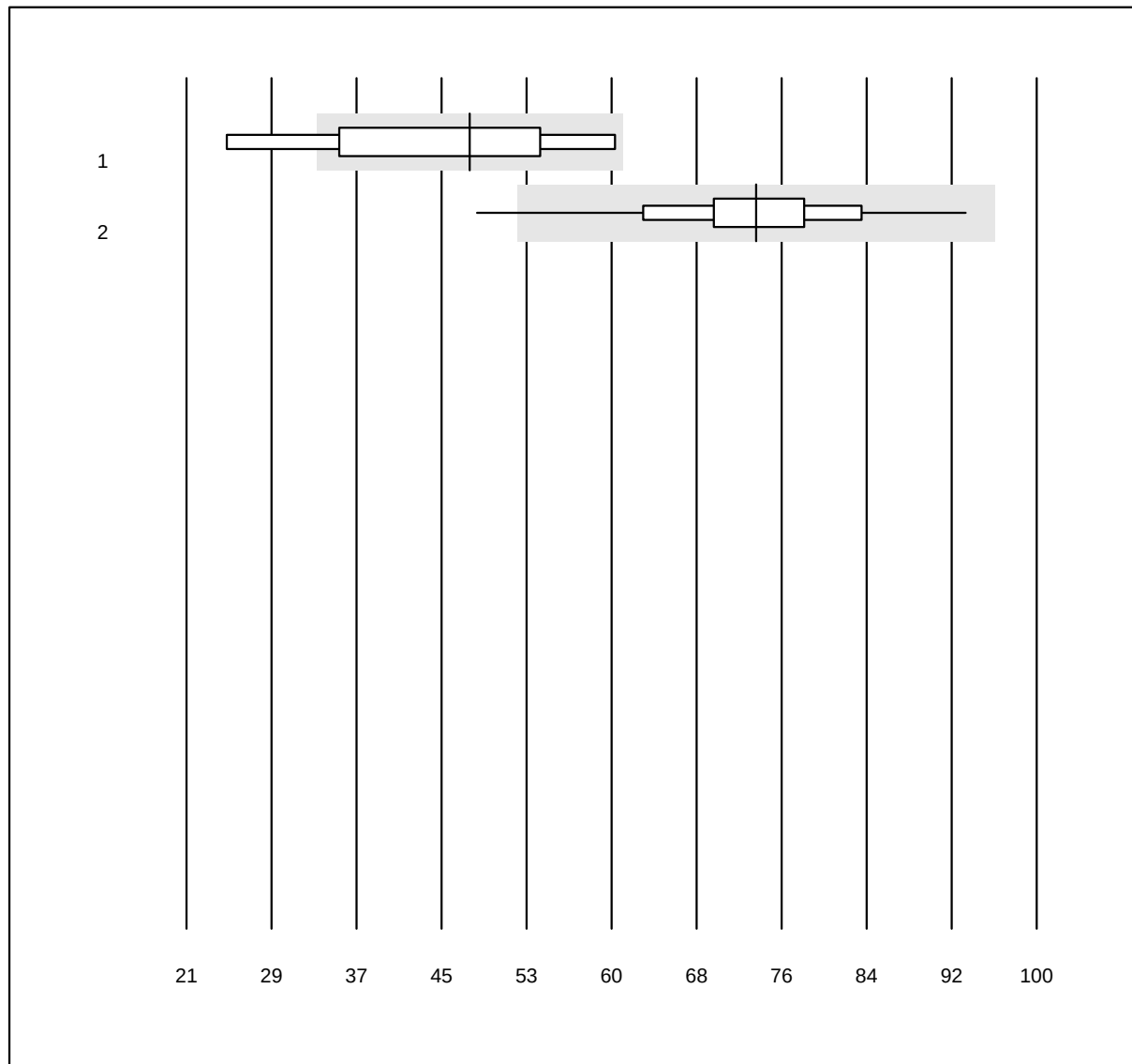
MQ Toleranz: 25%  
( < 1.3: +/- 0.1 G/l)

Immature Granulocytes  
(G/l)

| No. | Methode | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|------|-----------|-----------|--------------|------|------|
| 1   | Sysmex  | 112   | 98.2 | 0.0       | 1.8       | 0.03         | 60.3 | e    |



## Reticulocytes



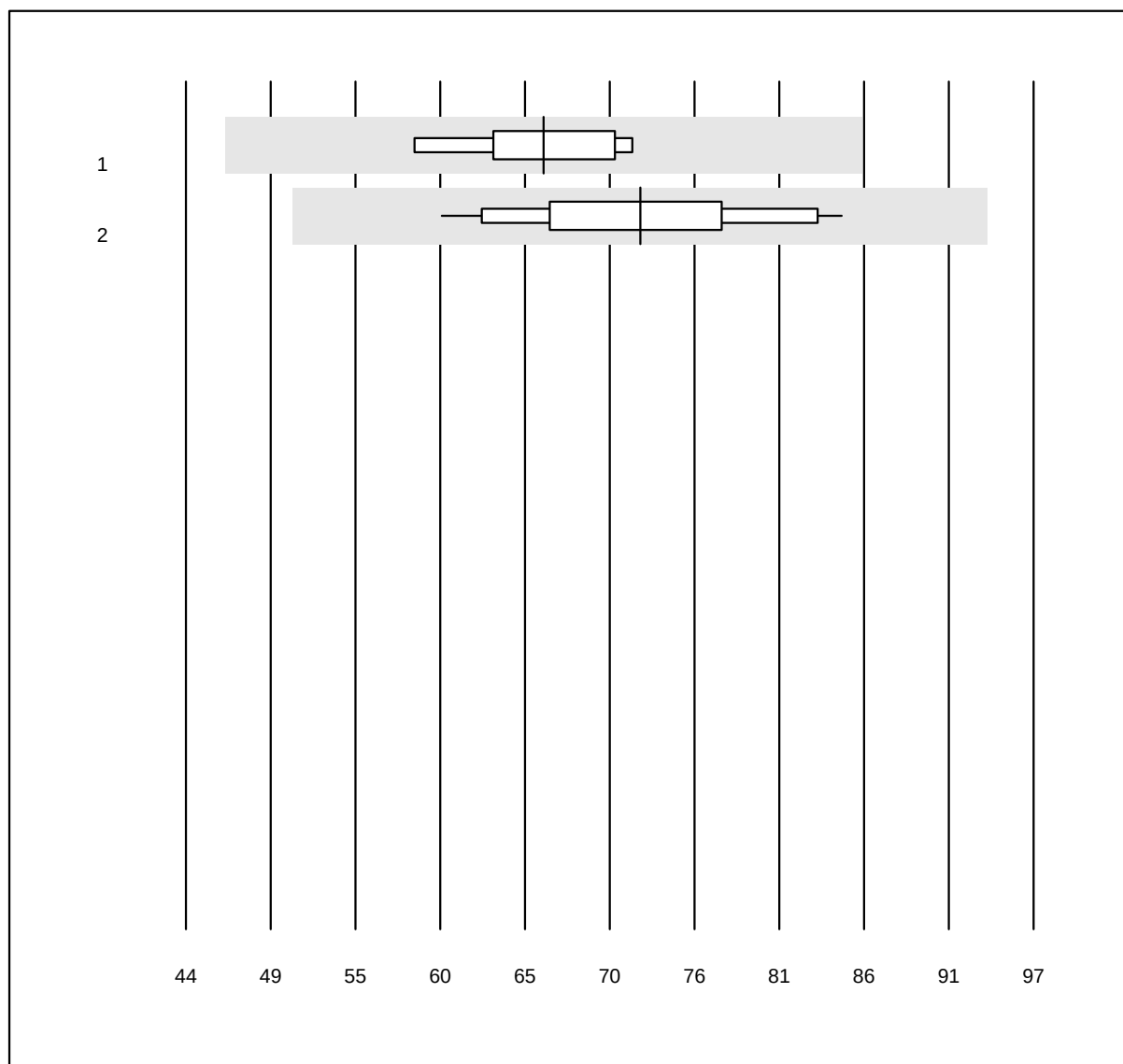
QUALAB Toleranz: 30%

Reticulocytes (G/l)

| No. Methode | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Beckman   | 6     | 66.7 | 16.7      | 16.7      | 47.3         | 23.7 | e*   |
| 2 Sysmex    | 67    | 97.0 | 3.0       | 0.0       | 73.9         | 11.2 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Hämolyseindex Probe A



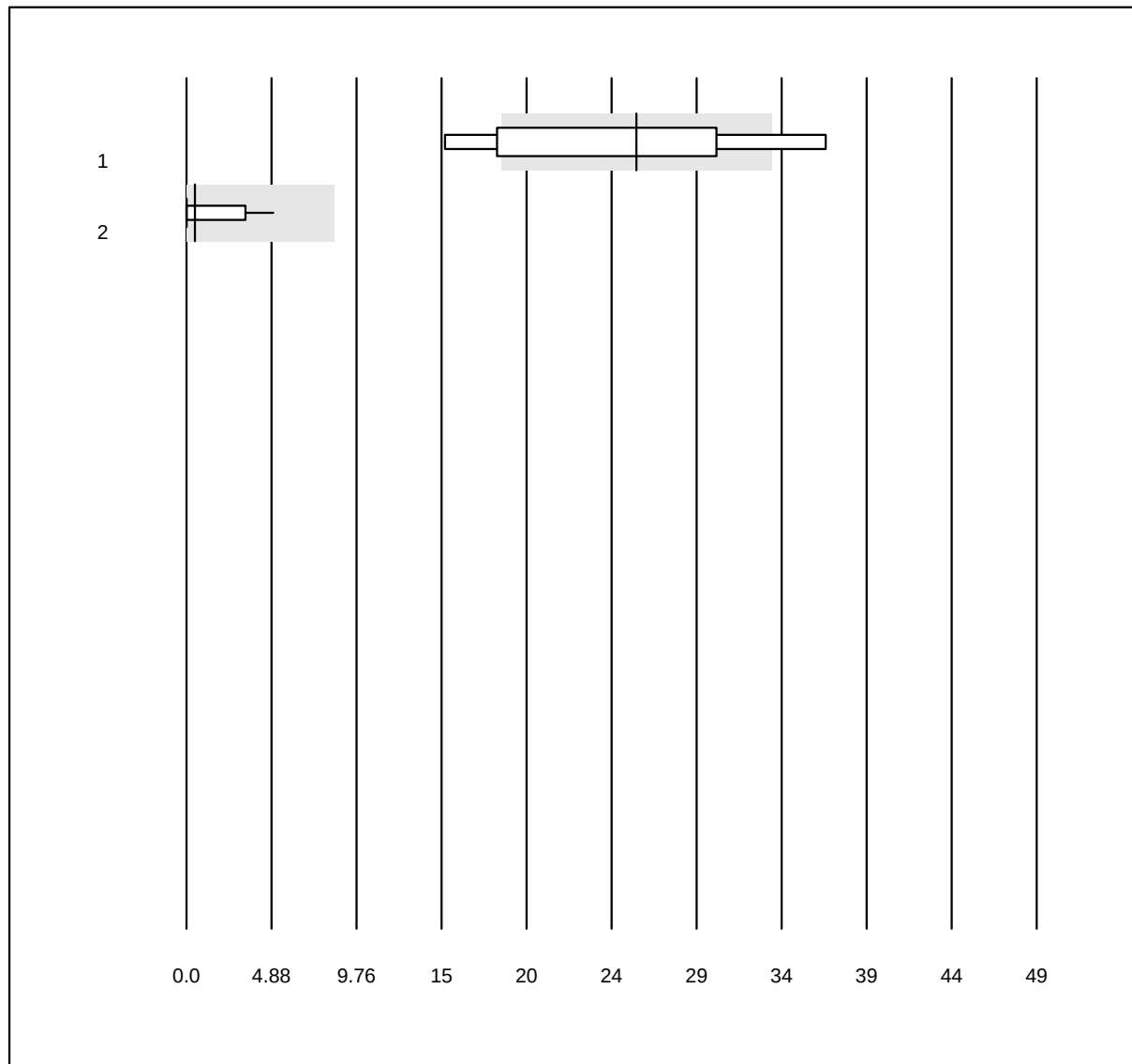
MQ Toleranz: 30%

Hämolyseindex Probe A ()

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Atellica  | 7     | 85.7  | 0.0       | 14.3      | 66.36        | 6.9  | e    |
| 2 Roche     | 24    | 100.0 | 0.0       | 0.0       | 72.42        | 9.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Hämolyseindex Probe B



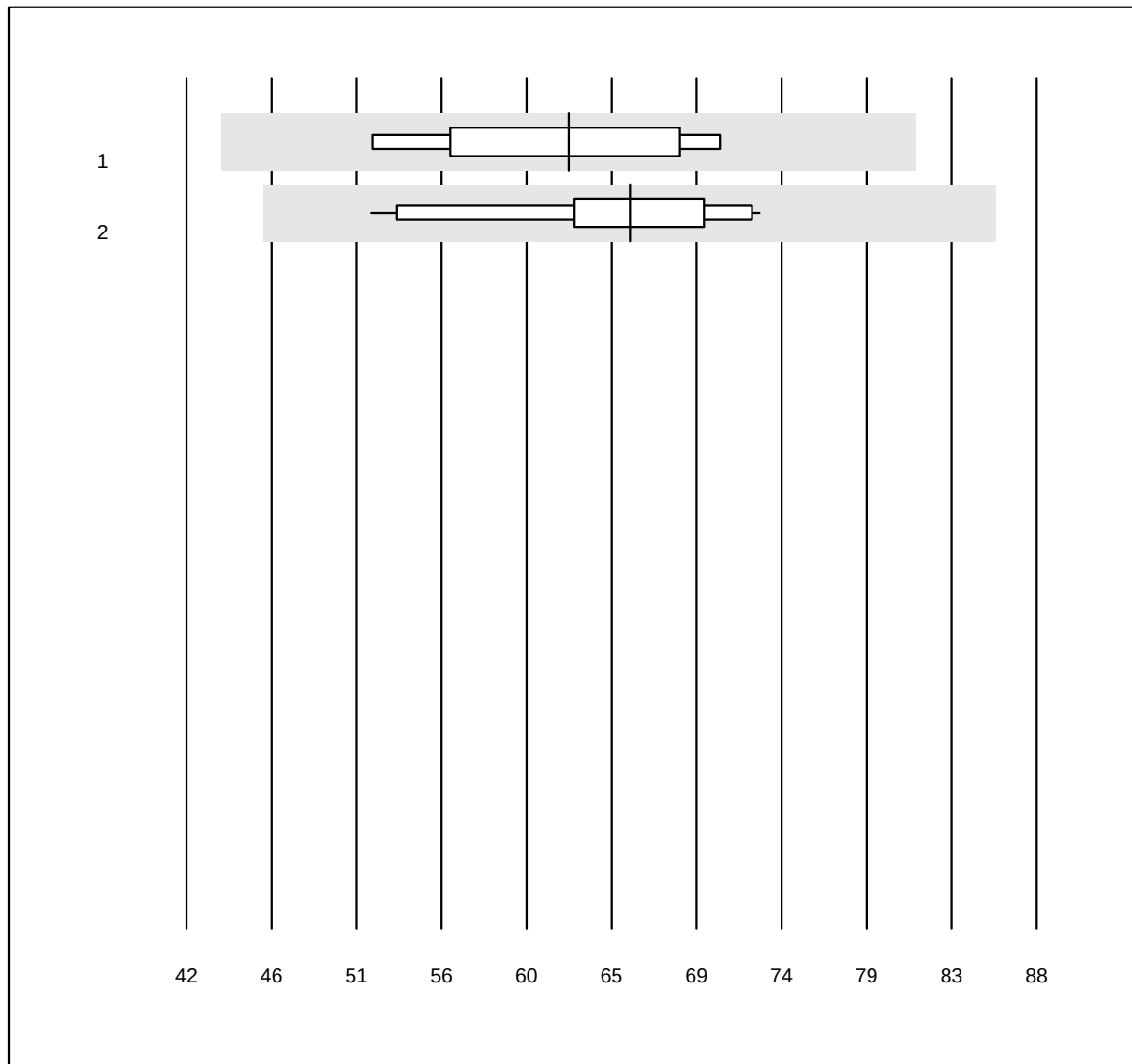
MQ Toleranz: 30%

Hämolyseindex Probe B ()

| No. Methode | Total | % OK | % insuff. | % outlier | Target Value | VK %  | Type |
|-------------|-------|------|-----------|-----------|--------------|-------|------|
| 1 Atellica  | 7     | 42.9 | 14.3      | 42.9      | 25.93        | 28.3  | e*   |
| 2 Roche     | 24    | 95.8 | 0.0       | 4.2       | 0.49         | 294.0 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Lipemia index A



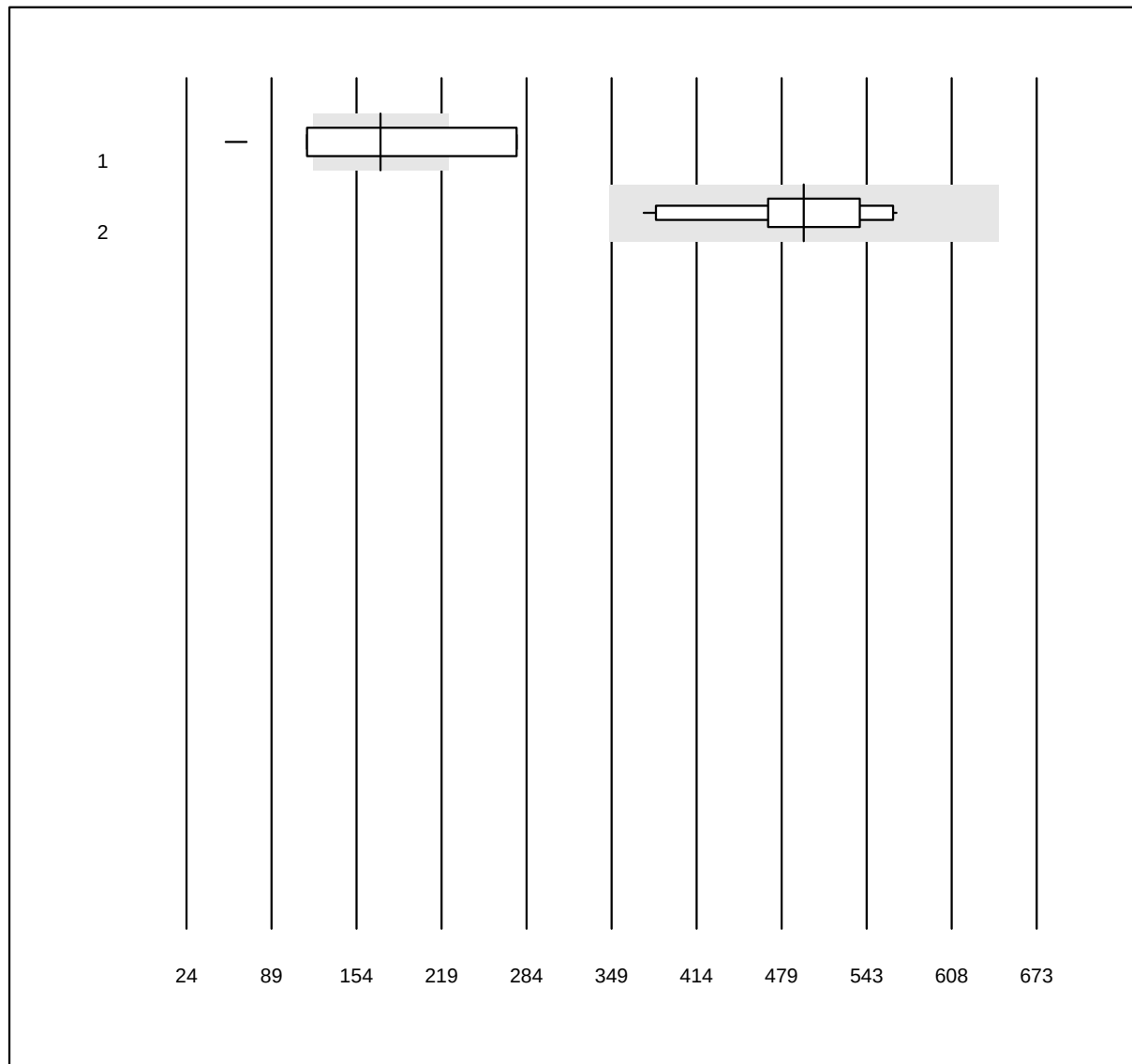
MQ Toleranz: 30%

Lipemia index A ()

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Atellica  | 6     | 83.3  | 0.0       | 16.7      | 62.68        | 10.7 | e*   |
| 2 Cobas     | 11    | 100.0 | 0.0       | 0.0       | 66.00        | 9.3  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Lipemia index B



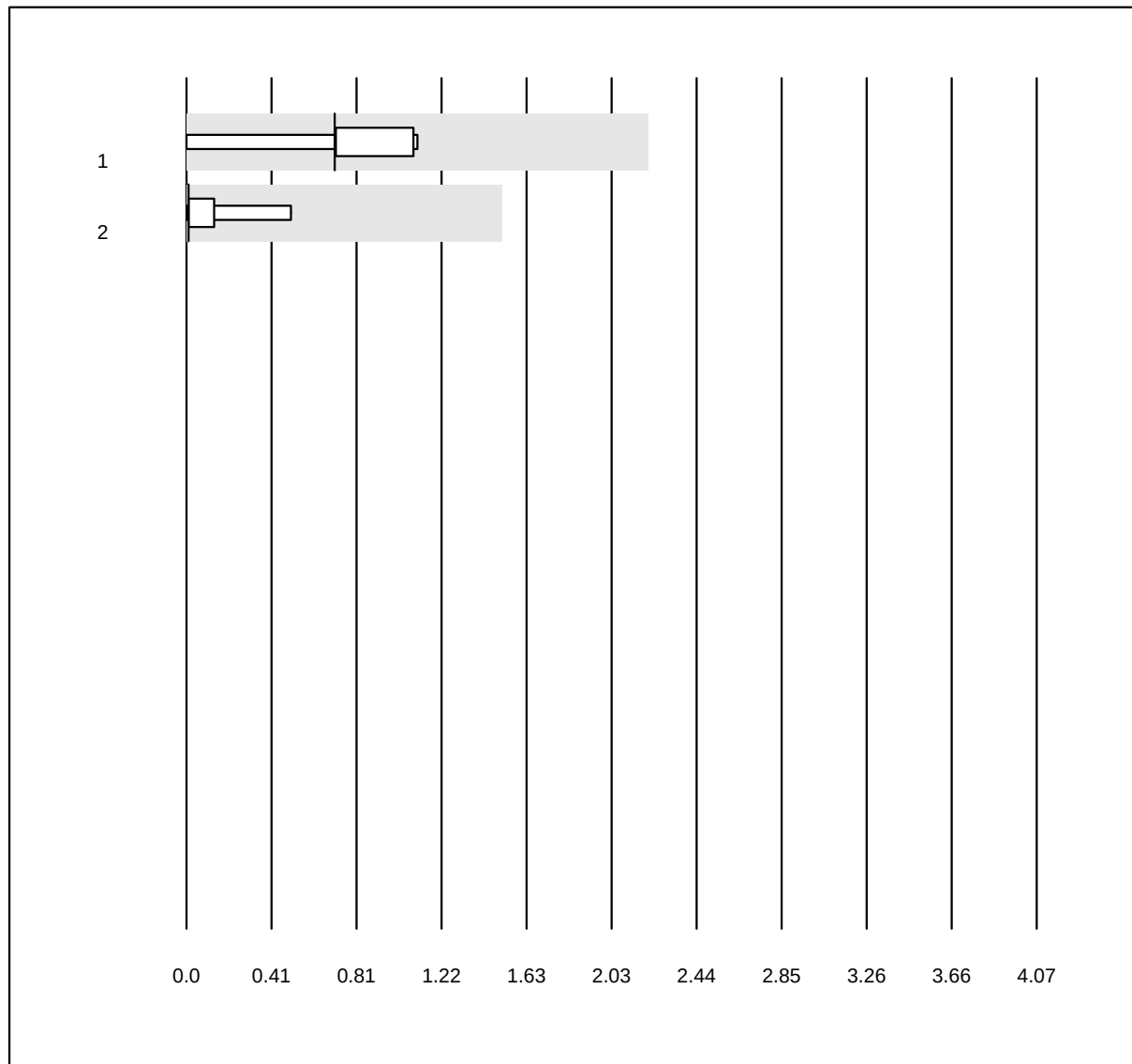
MQ Toleranz: 30%

Lipemia index B (None)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Atellica  | 7     | 28.6  | 28.6      | 42.9      | 172.08       | 0.0  | e    |
| 2 Cobas     | 11    | 100.0 | 0.0       | 0.0       | 495.18       | 11.7 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Icteria Index A



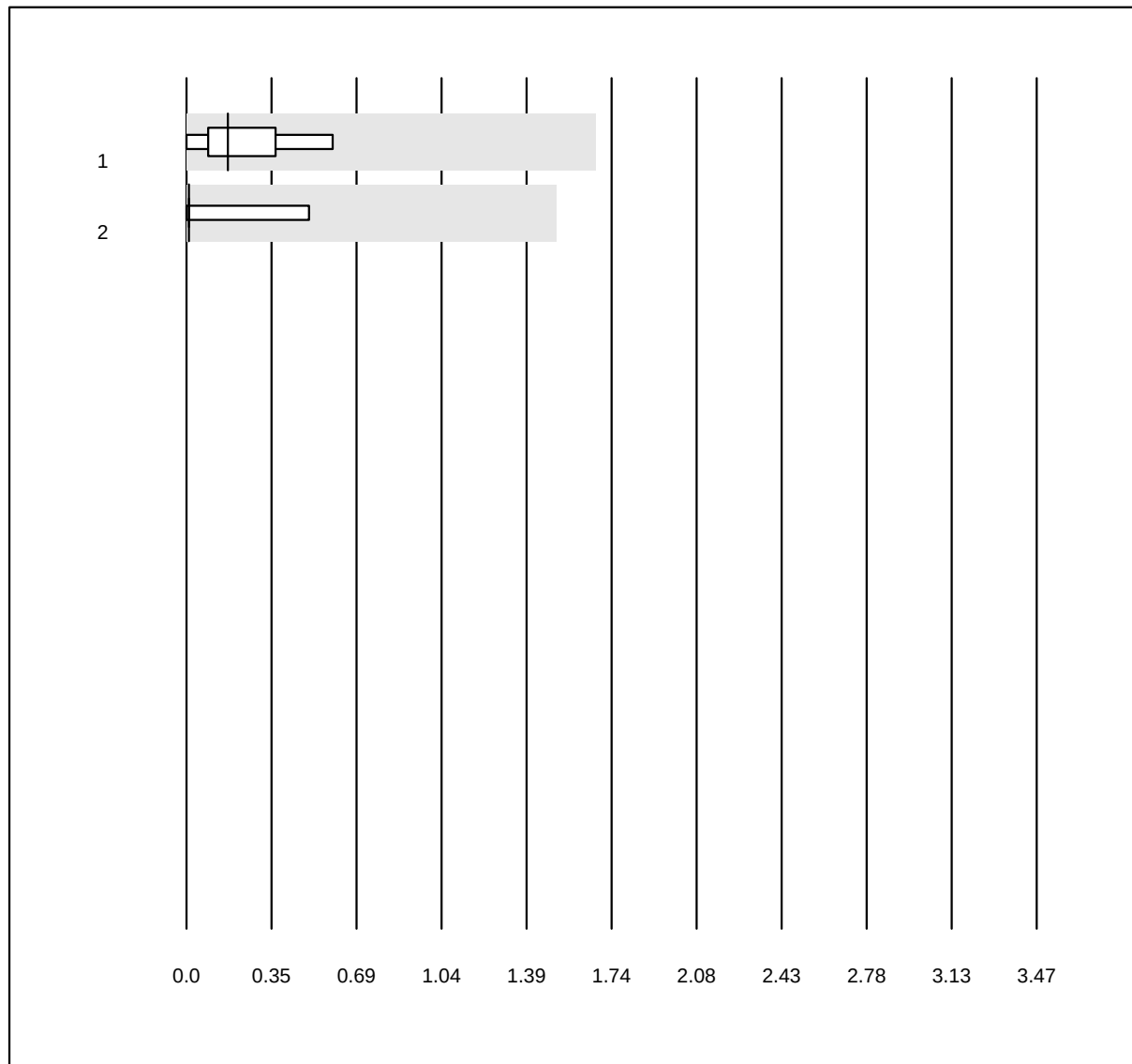
MQ Toleranz: 30%  
( < 5.0: +/- 1.5 )

Icteria Index A ( )

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK %  | Type |
|-------------|-------|-------|-----------|-----------|--------------|-------|------|
| 1 Atellica  | 6     | 100.0 | 0.0       | 0.0       | 0.71         | 48.8  | e    |
| 2 Cobas     | 10    | 100.0 | 0.0       | 0.0       | 0.01         | 193.6 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Icteria Index B



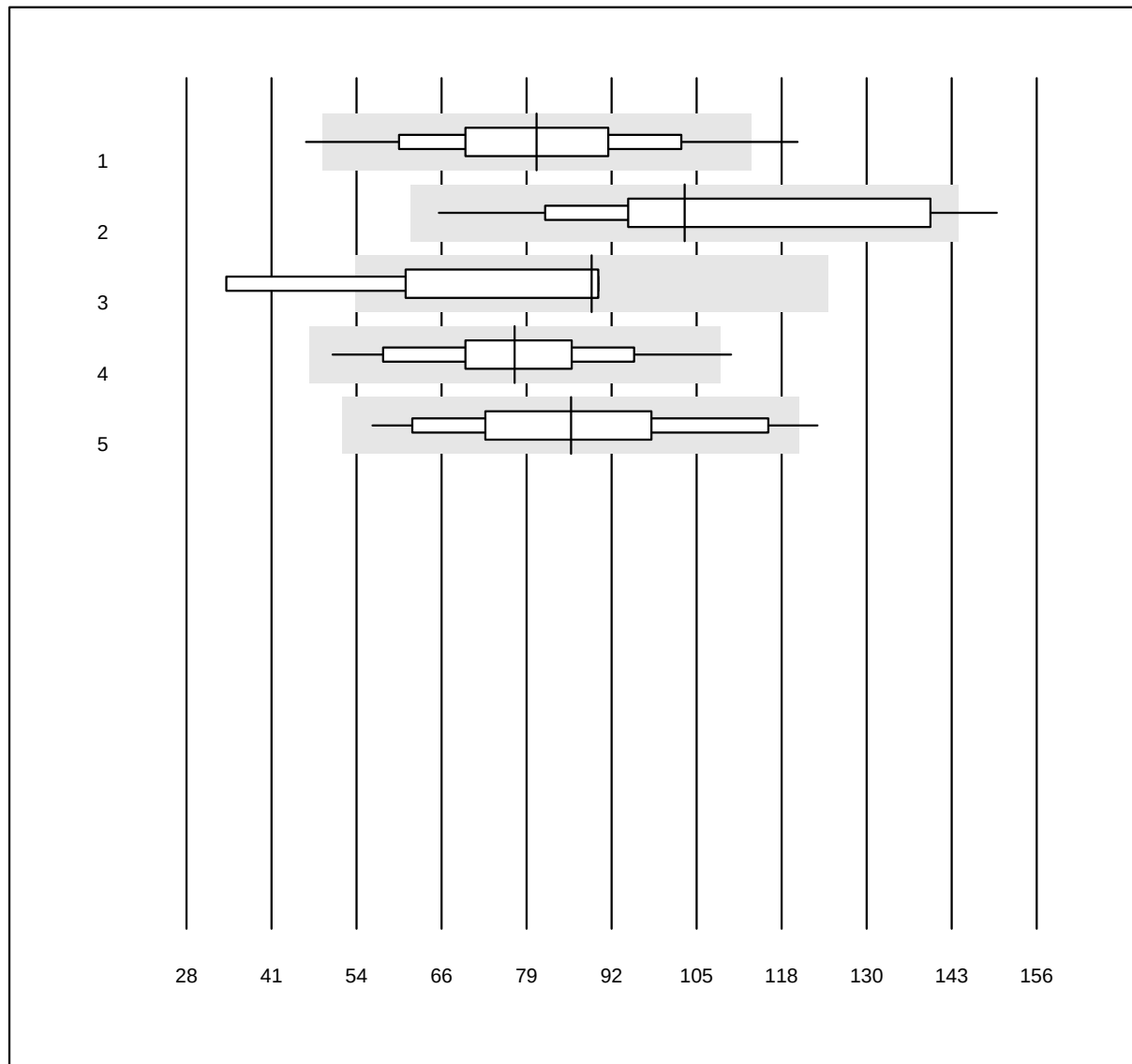
MQ Toleranz: 30%  
( < 5.0: +/- 1.5 )

Icteria Index B ()

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK %  | Type |
|-------------|-------|-------|-----------|-----------|--------------|-------|------|
| 1 Atellica  | 6     | 100.0 | 0.0       | 0.0       | 0.17         | 84.0  | e    |
| 2 Cobas     | 11    | 100.0 | 0.0       | 0.0       | 0.01         | 204.7 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Erythrocyte sedimentation rate 1h



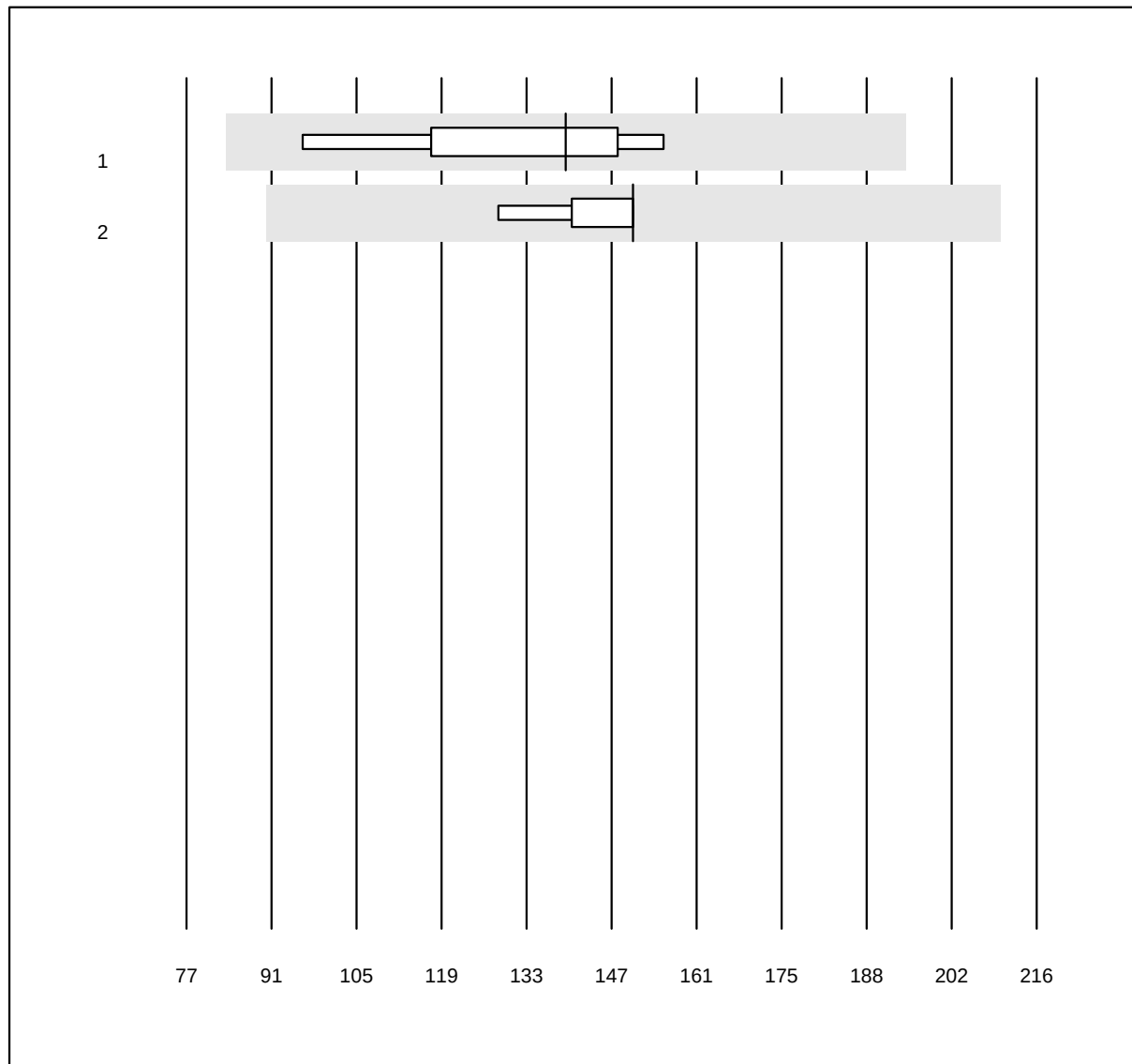
MQ Toleranz: 40%

Erythrocyte sedimentation  
rate 1h (mm/h)

| No. Methode           | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 BD Seditainer       | 45    | 93.3 | 4.4       | 2.2       | 81           | 18.9 | e    |
| 2 MINI-CUBE           | 29    | 96.6 | 3.4       | 0.0       | 103          | 20.4 | a    |
| 3 Sarstedt Microvette | 4     | 75.0 | 25.0      | 0.0       | 89           | 23.4 | e*   |
| 4 Sarstedt Sedivette  | 25    | 96.0 | 4.0       | 0.0       | 77           | 17.6 | e    |
| 5 andere Methoden     | 21    | 95.2 | 4.8       | 0.0       | 86           | 20.5 | e    |



## Erythrocyte sedimentation rate 2h



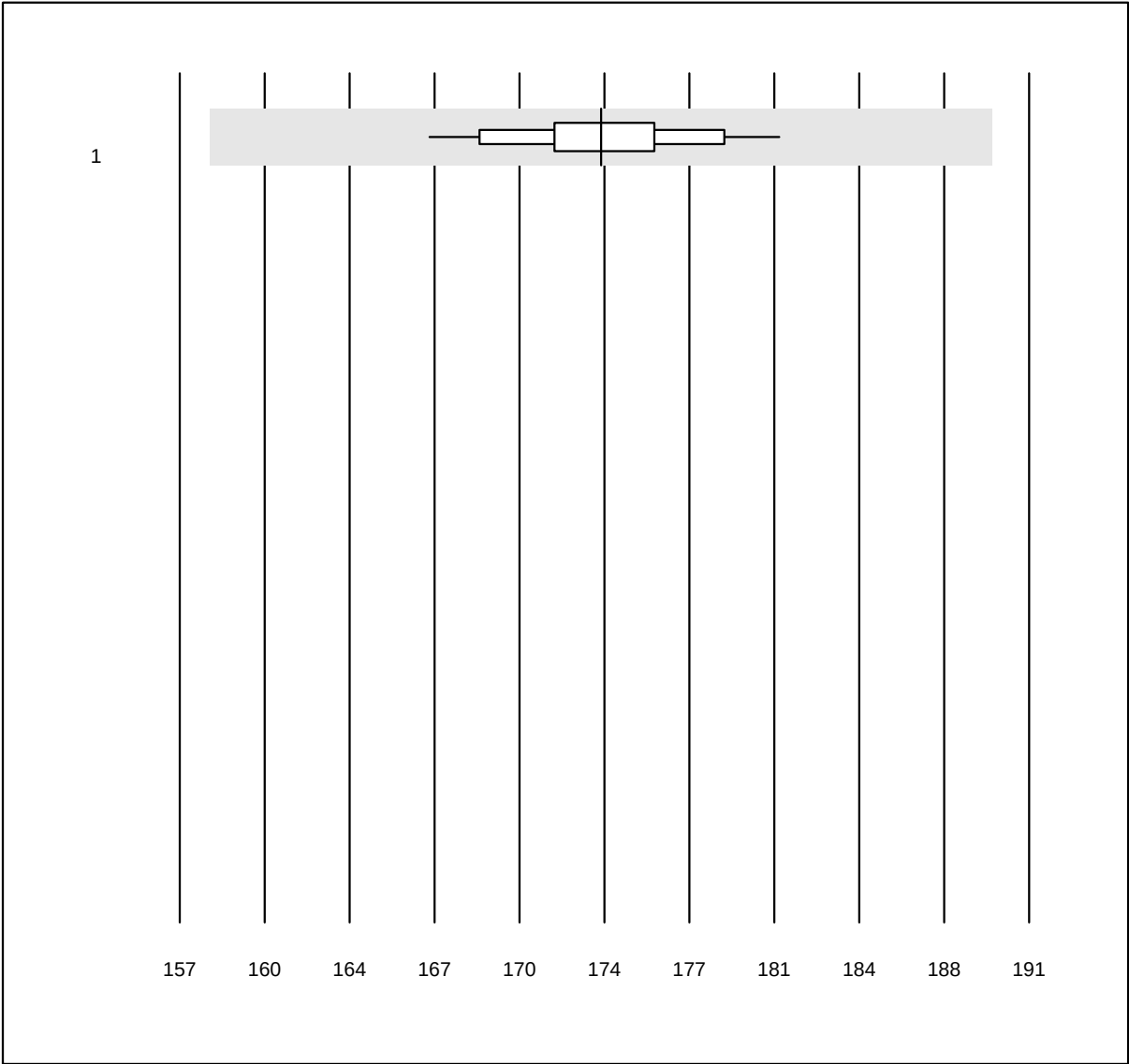
MQ Toleranz: 40%

Erythrocyte sedimentation  
rate 2h (mm/2h)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 BD Seditainer      | 4     | 100.0 | 0.0       | 0.0       | 139          | 12.8 | e*   |
| 2 Sarstedt Sedivette | 7     | 100.0 | 0.0       | 0.0       | 150          | 5.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Hemoglobin HS

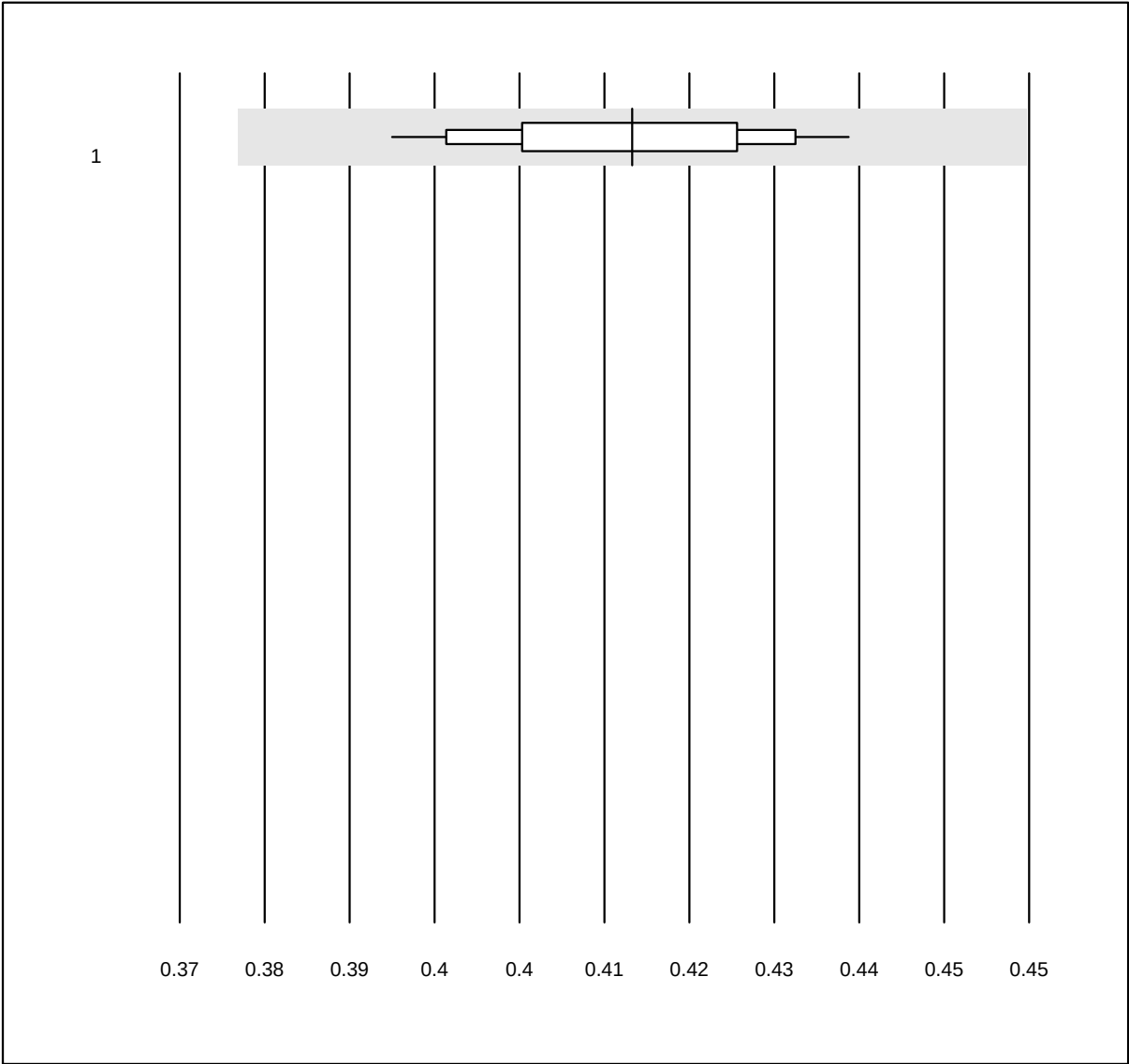


MQ Toleranz: 9%

Hemoglobin HS (g/l)

| No. Methode |                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | PixCell HemoScreen | 33    | 90.9 | 0.0       | 9.1       | 173.9        | 1.9  | e    |

Hematocrit HS

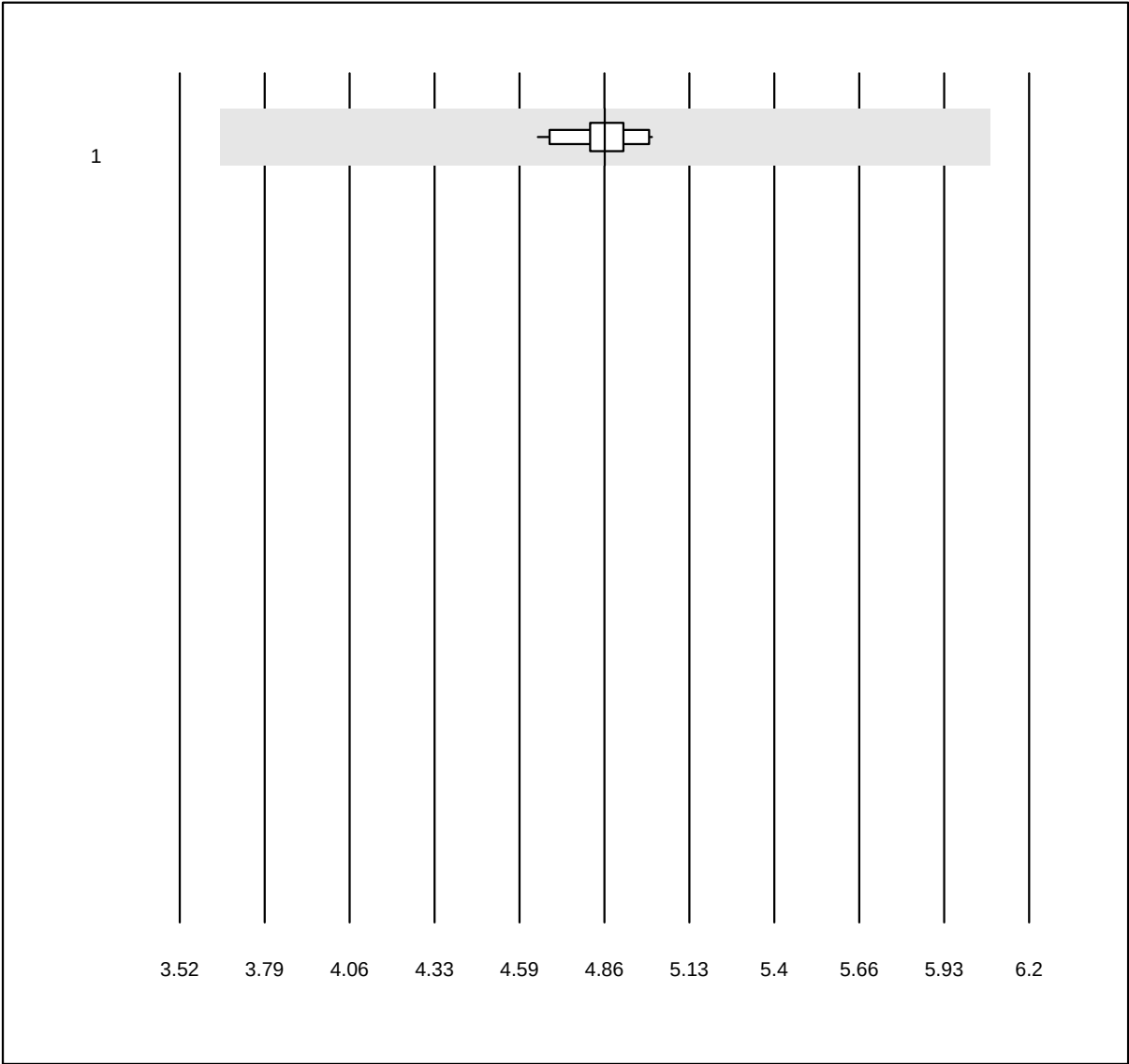


MQ Toleranz: 9%

Hematocrit HS (l/l)

| No. Methode |                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | PixCell HemoScreen | 33    | 90.9 | 0.0       | 9.1       | 0.4          | 2.9  | e    |

Erythrocytes HS

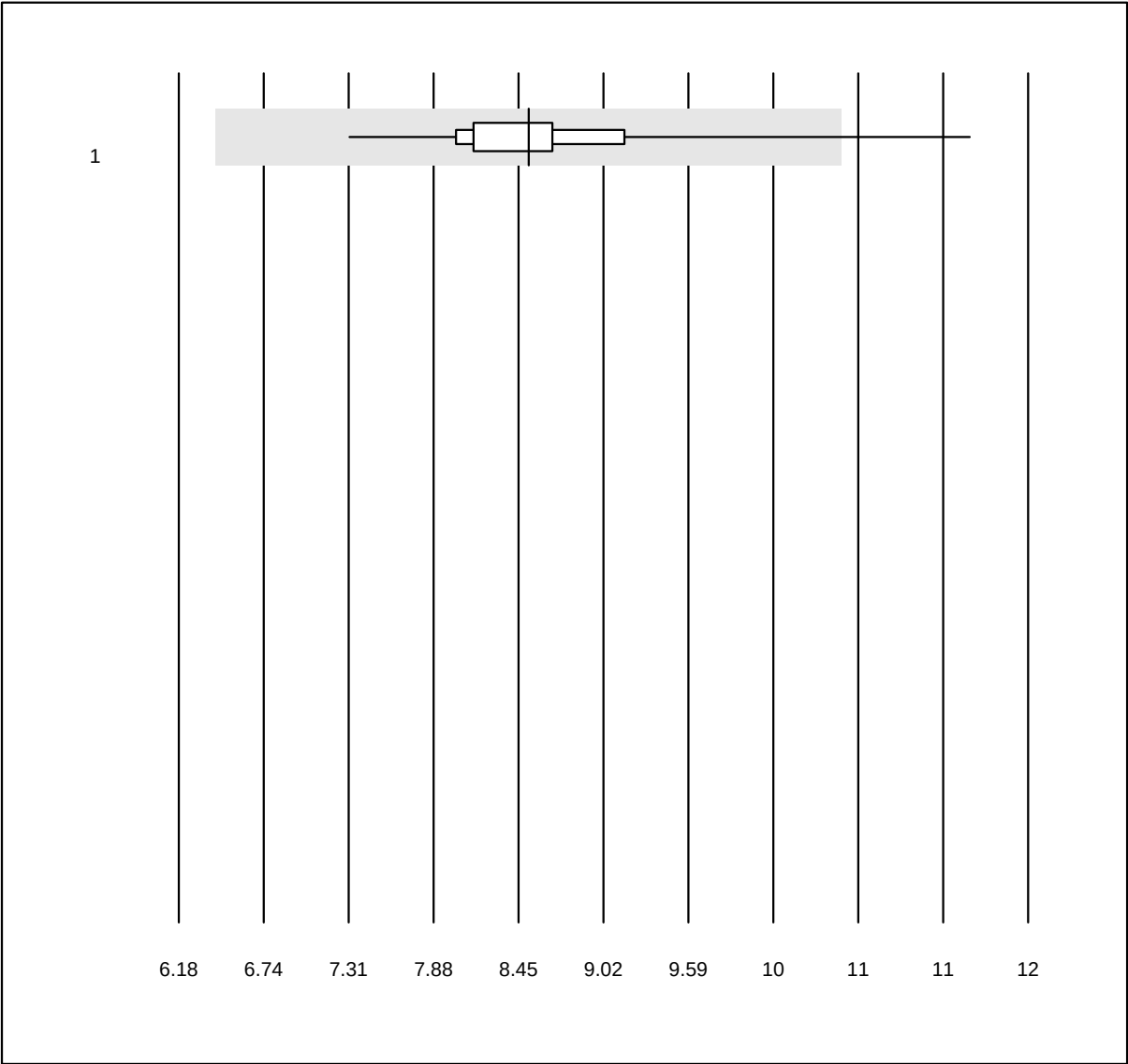


MQ Toleranz: 25%

Erythrocytes HS (T/l)

| No. Methode |                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | PixCell HemoScreen | 32    | 87.5 | 0.0       | 12.5      | 4.86         | 2.0  | e    |

Leucocytes HS

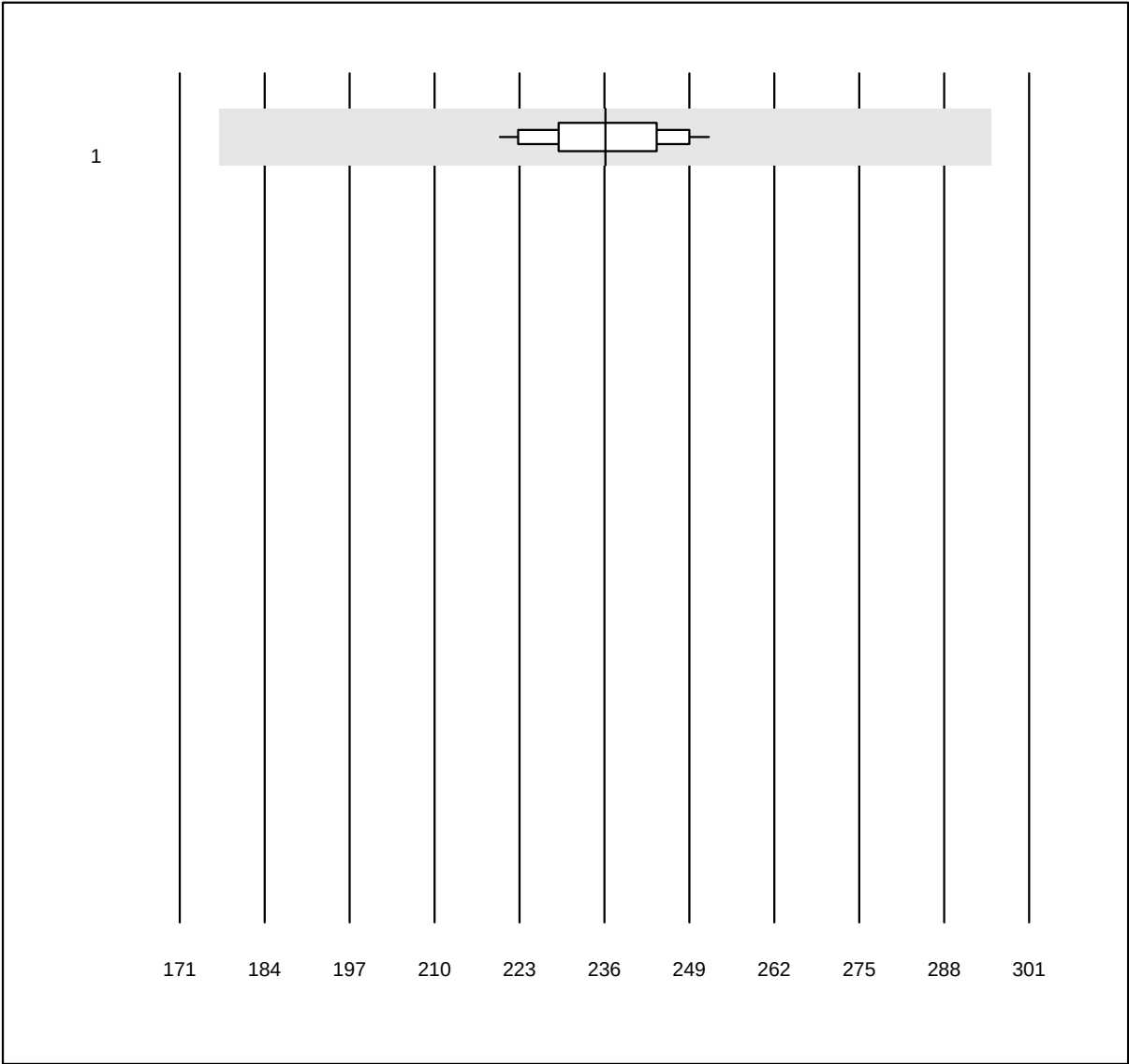


MQ Toleranz: 25%

Leucocytes HS (G/l)

| No. Methode |                    | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | PixCell HemoScreen | 32    | 93.8 | 3.1       | 3.1       | 8.58         | 8.8  | e    |

Trombocytes HS

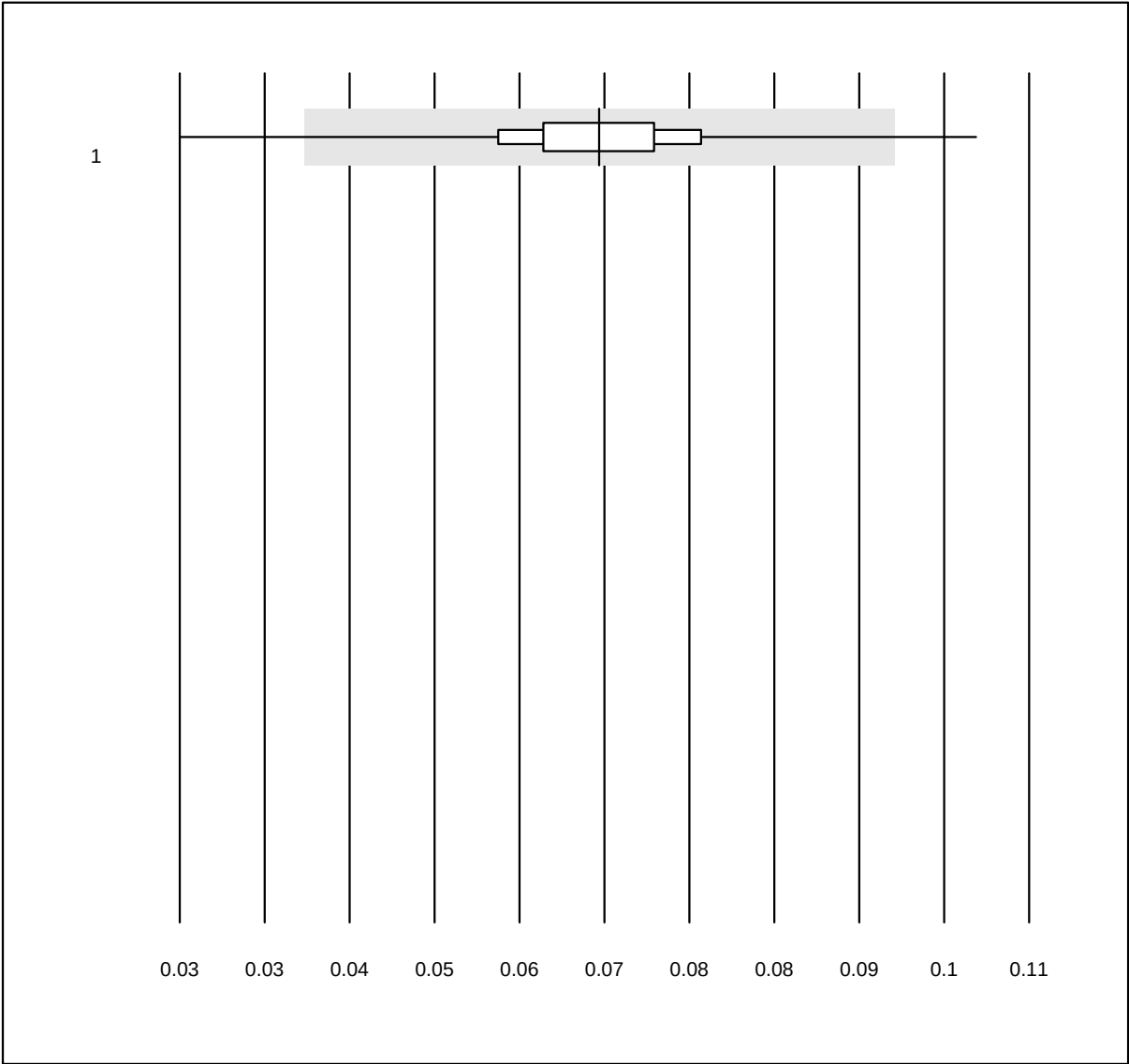


MQ Toleranz: 25%

Trombocytes HS (G/l)

| No. Methode |                    | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | PixCell HemoScreen | 31    | 100.0 | 0.0       | 0.0       | 236.2        | 3.9  | e    |

Leucocytes BF



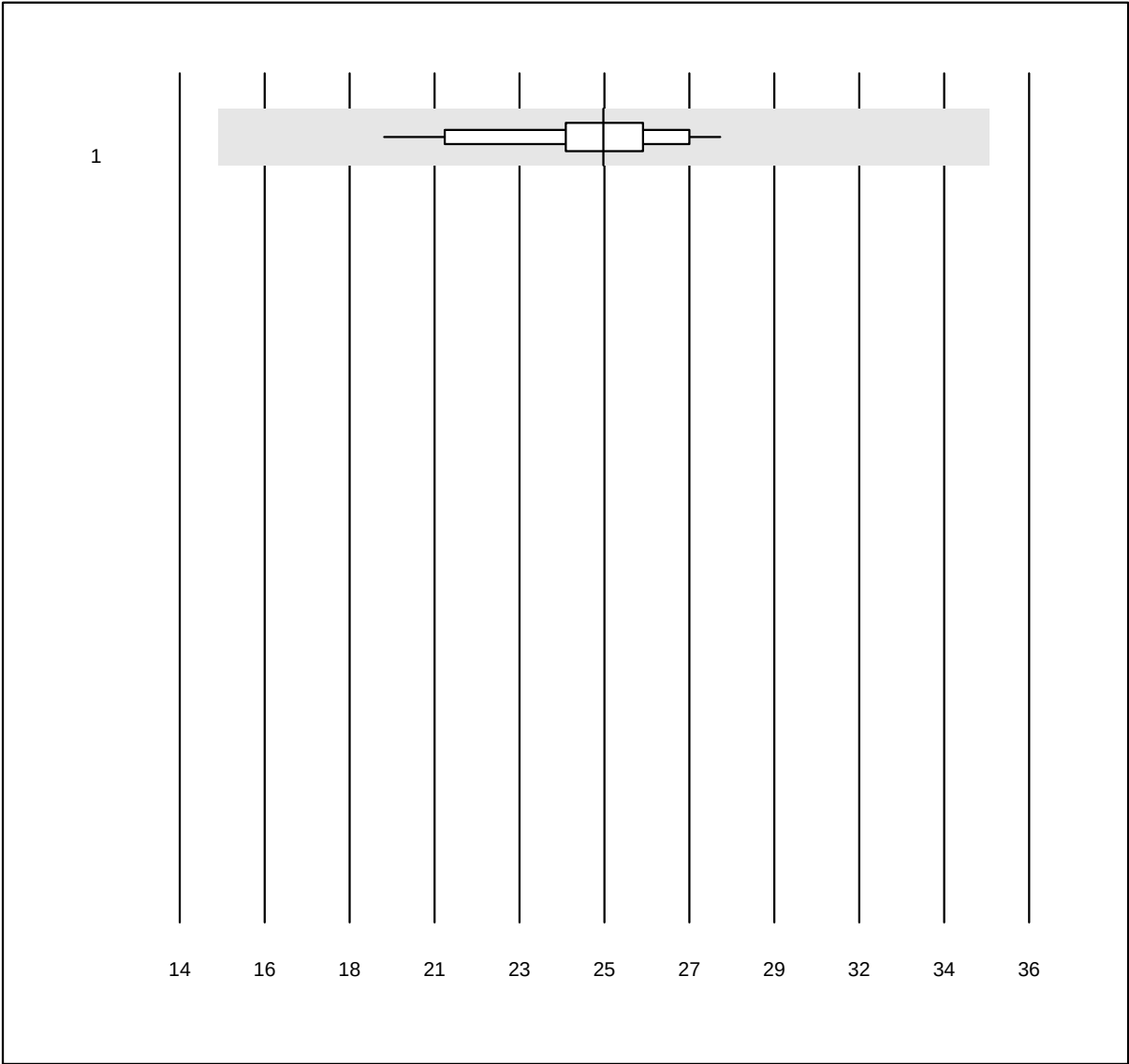
MQ Toleranz: 40%

Leucocytes BF (G/l)

| No. Methode |        | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Sysmex | 28    | 92.9 | 7.1       | 0.0       | 0.070        | 16.9 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Erythrocytes BF



MQ Toleranz: 40%

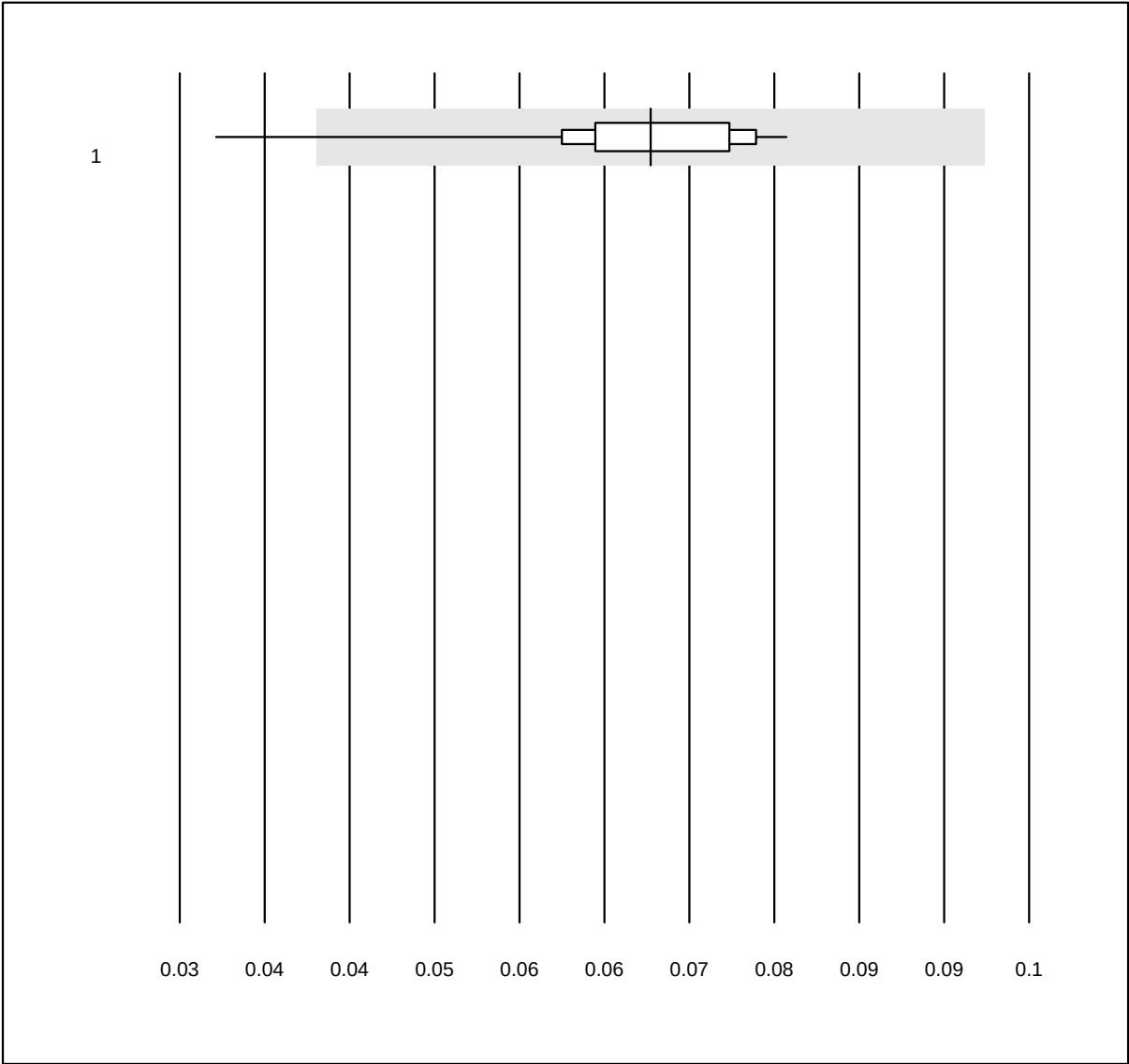
Erythrocytes BF (G/l)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Sysmex | 27    | 100.0 | 0.0       | 0.0       | 24.973       | 8.3  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



Total cells (TC)

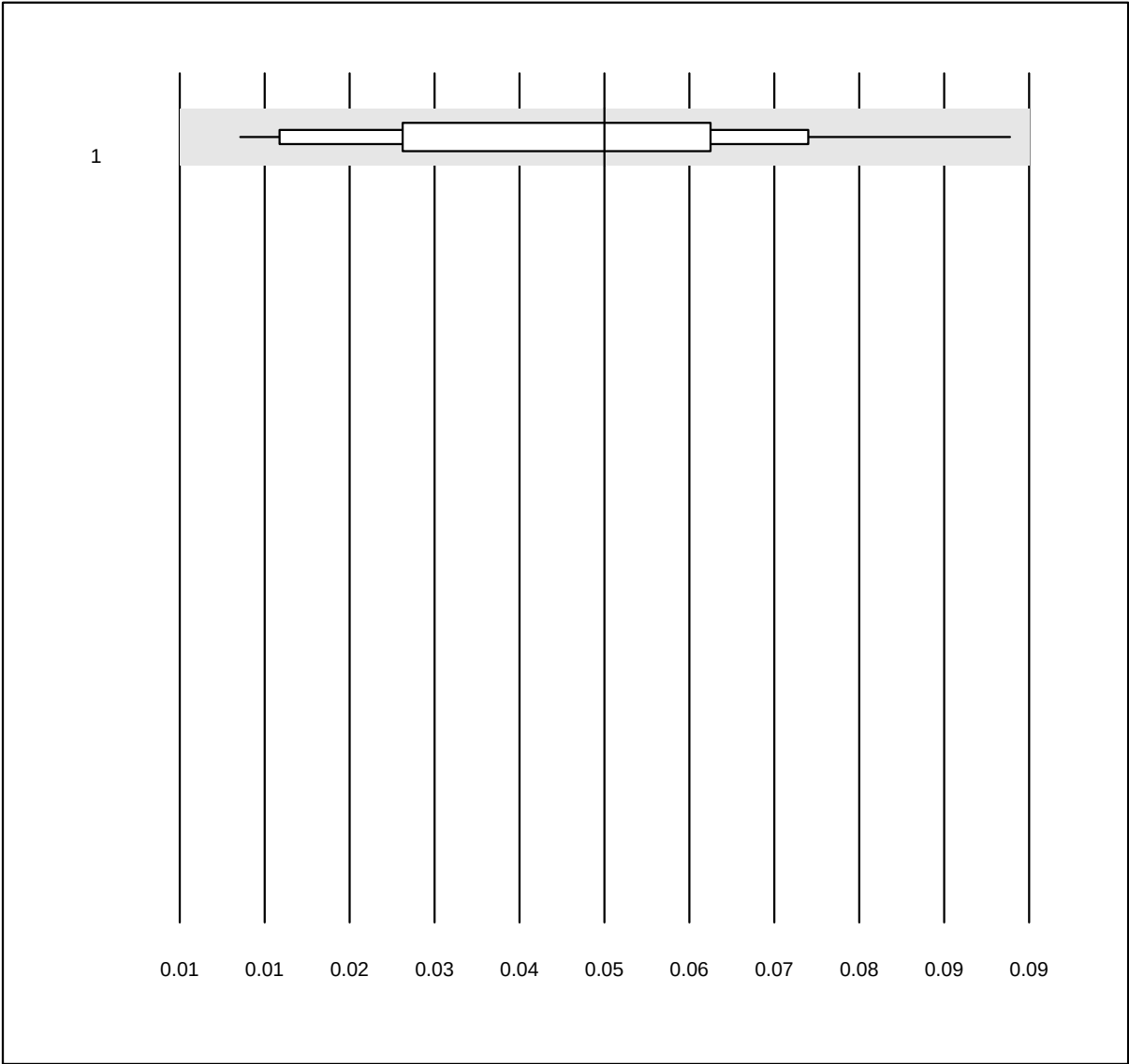


MQ Toleranz: 40%

Total cells (TC) (G/l)

| No. Methode |        | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Sysmex | 25    | 92.0 | 4.0       | 4.0       | 0.069        | 13.7 | e    |

Mononuclear cells (MN)

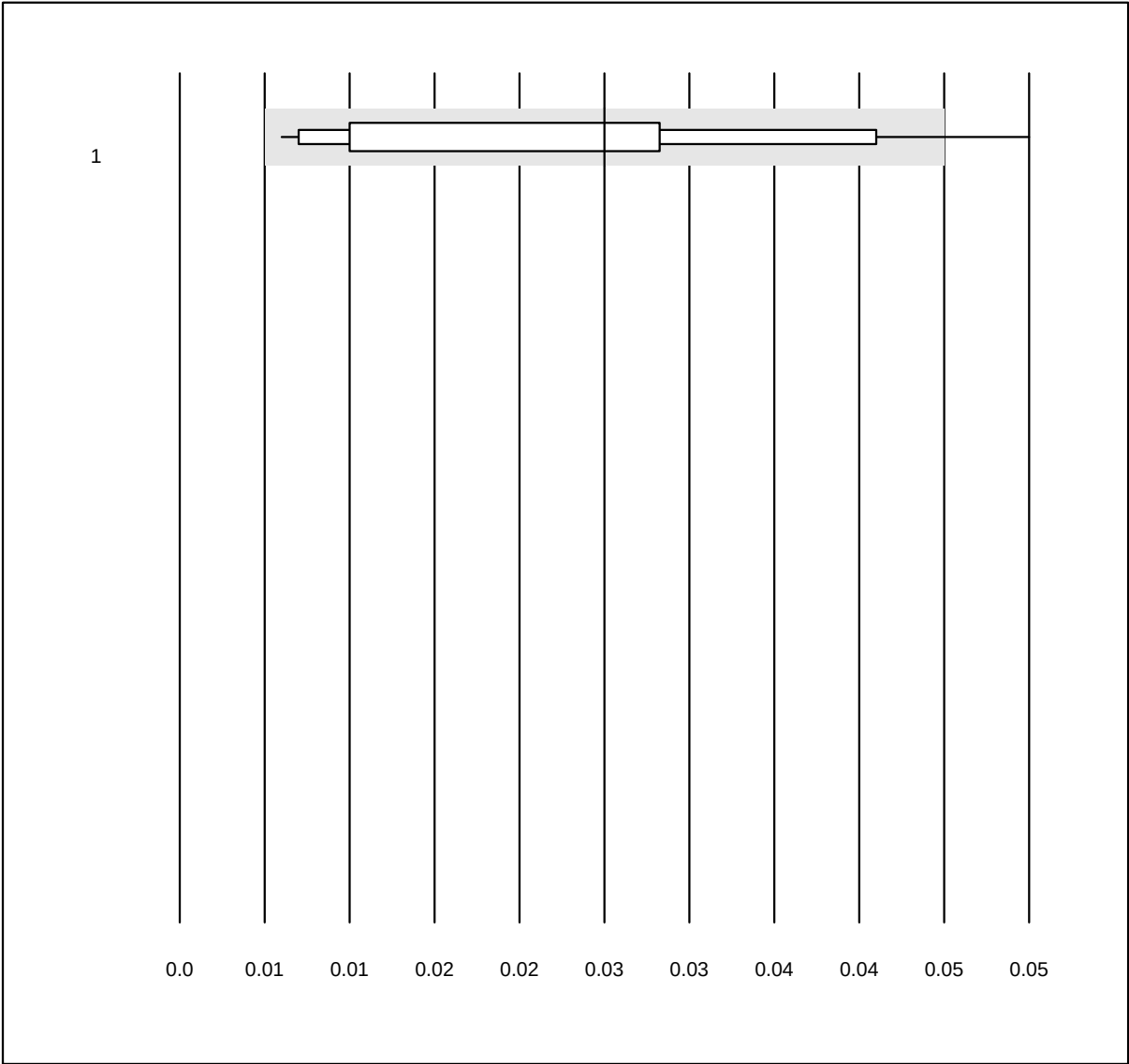


MQ Toleranz: 40%

Mononuclear cells (MN)  
(G/l)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Sysmex | 27    | 100.0 | 0.0       | 0.0       | 0.050        | 40.4 | a    |

Polynuclear cells (PMN)

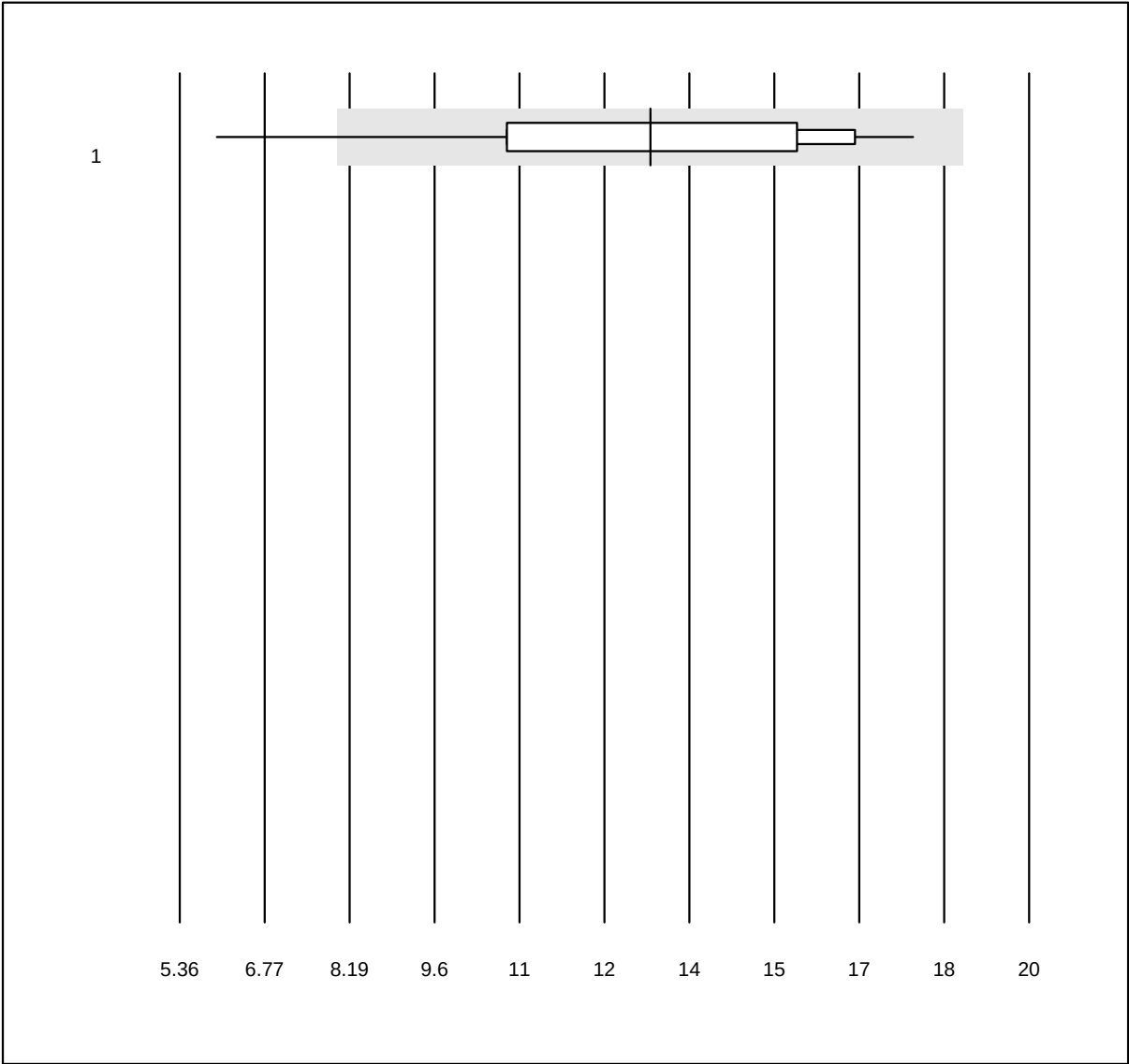


MQ Toleranz: 40%

Polynuclear cells (PMN)  
(G/l)

| No. Methode |        | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Sysmex | 27    | 85.2 | 3.7       | 11.1      | 0.025        | 62.2 | a*   |

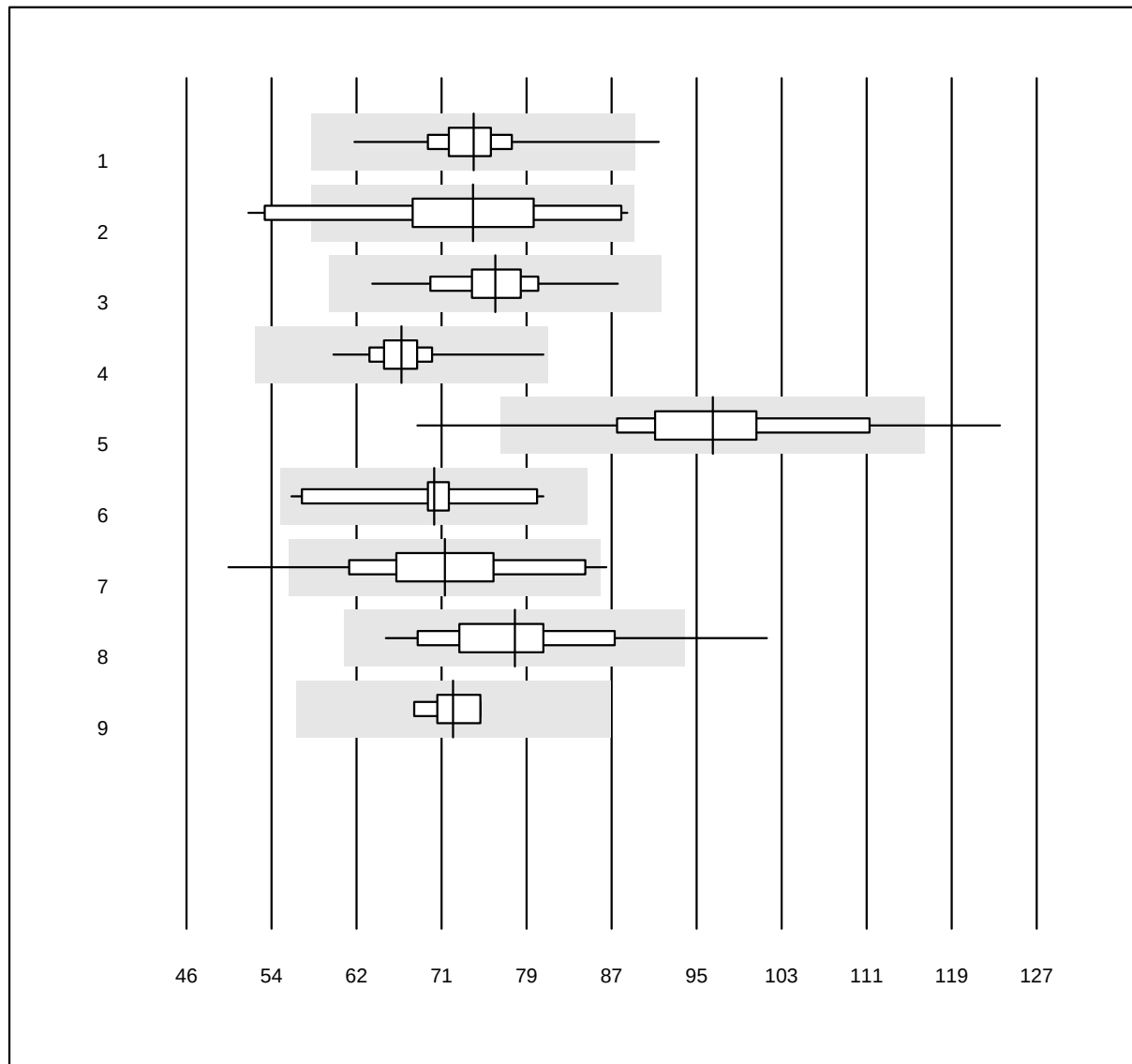
Erythrocyte sedimentation rate



MQ Toleranz: 40%

|     |         | Erythrocyte sedimentation rate (mm/h) |      |           |           |              |      |      |
|-----|---------|---------------------------------------|------|-----------|-----------|--------------|------|------|
| No. | Methode | Total                                 | % OK | % insuff. | % outlier | Target Value | VK % | Type |
| 1   | miniSed | 23                                    | 78.3 | 4.3       | 17.4      | 13           | 21.2 | e    |

## CRP



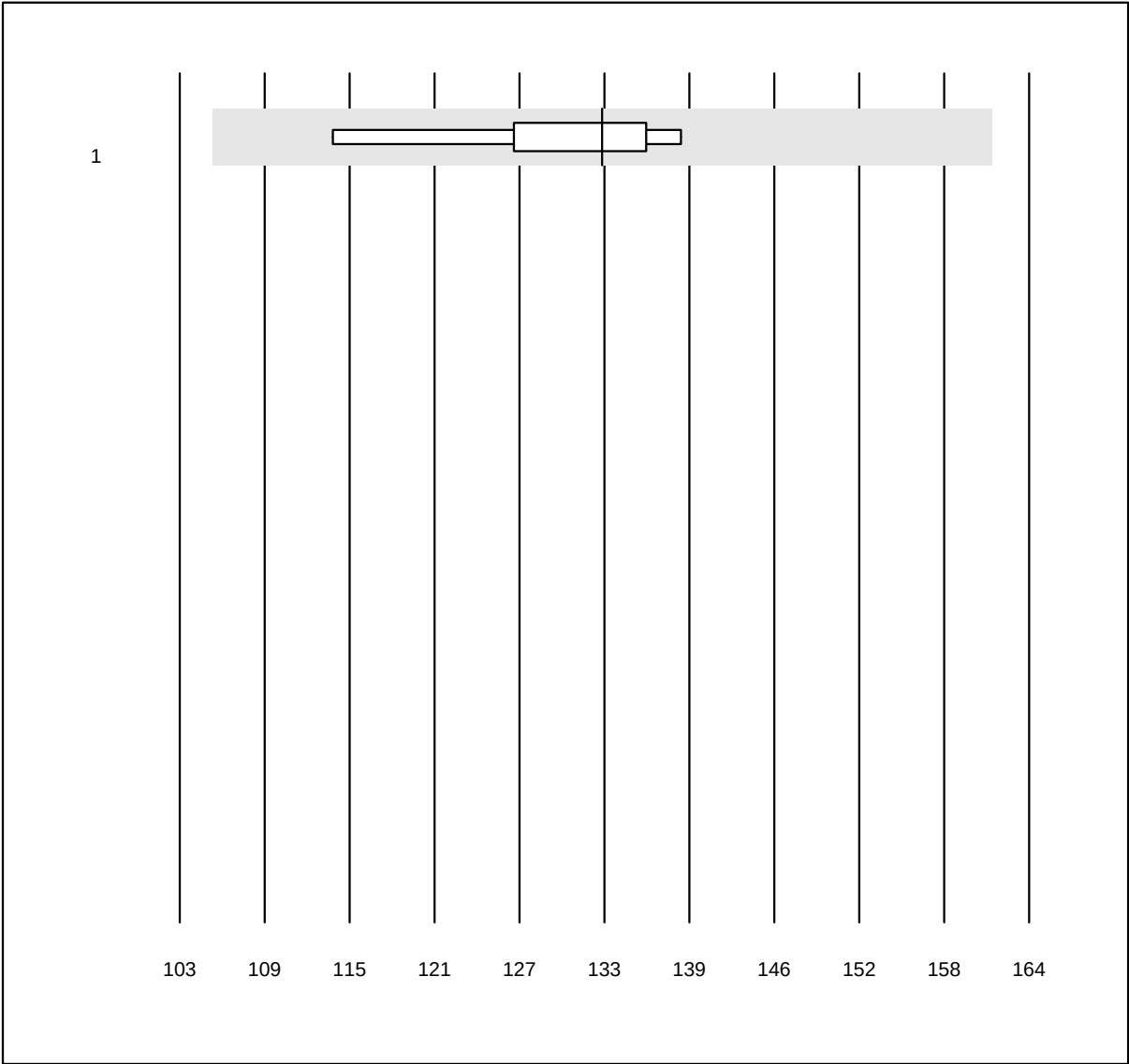
QUALAB Toleranz: 21%

CRP (mg/l)

| No. Methode                  | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Afinion                    | 1003  | 99.3  | 0.2       | 0.5       | 73.4         | 4.3  | e    |
| 2 Autolyser                  | 12    | 75.0  | 8.3       | 16.7      | 73.3         | 13.4 | e*   |
| 3 Cobas                      | 45    | 100.0 | 0.0       | 0.0       | 75.4         | 5.3  | e    |
| 4 Cobas b101                 | 457   | 98.9  | 0.0       | 1.1       | 66.5         | 3.5  | e    |
| 5 Eurolyser                  | 49    | 77.6  | 6.1       | 16.3      | 96.1         | 10.6 | e    |
| 6 Fuji Dri-Chem              | 11    | 90.9  | 0.0       | 9.1       | 69.6         | 8.7  | e*   |
| 7 NycoCard SingleTest-Plasma | 39    | 76.9  | 10.3      | 12.8      | 70.6         | 11.7 | e    |
| 8 Quick Read go              | 83    | 91.6  | 4.8       | 3.6       | 77.3         | 9.7  | e    |
| 9 Siemens                    | 9     | 100.0 | 0.0       | 0.0       | 71.4         | 3.2  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

CRP

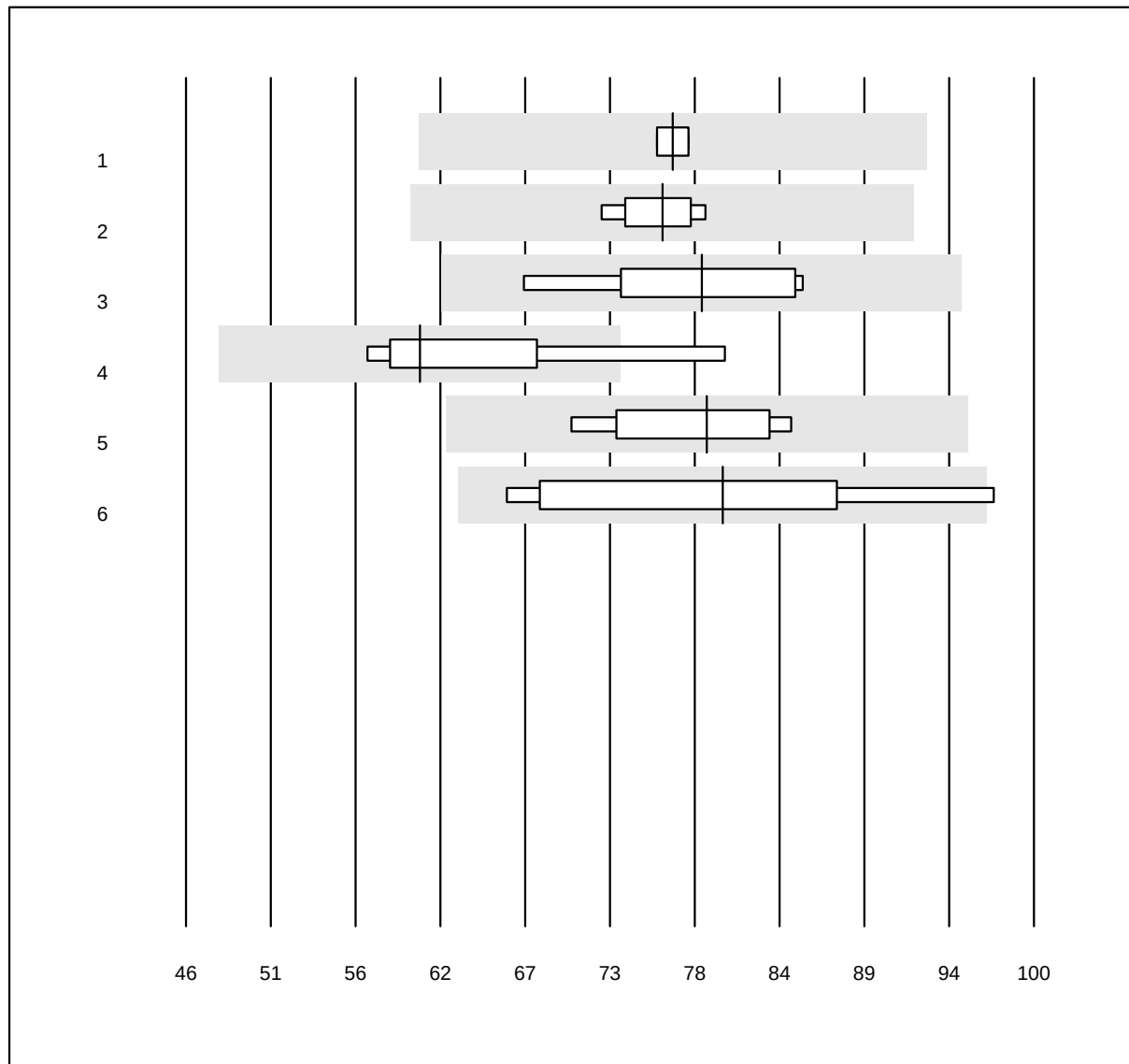


QUALAB Toleranz: 21%

CRP (mg/l)

| No. Methode |                     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | QuikRead (Vollblut) | 9     | 100.0 | 0.0       | 0.0       | 133.3        | 6.0  | e    |

## CRP

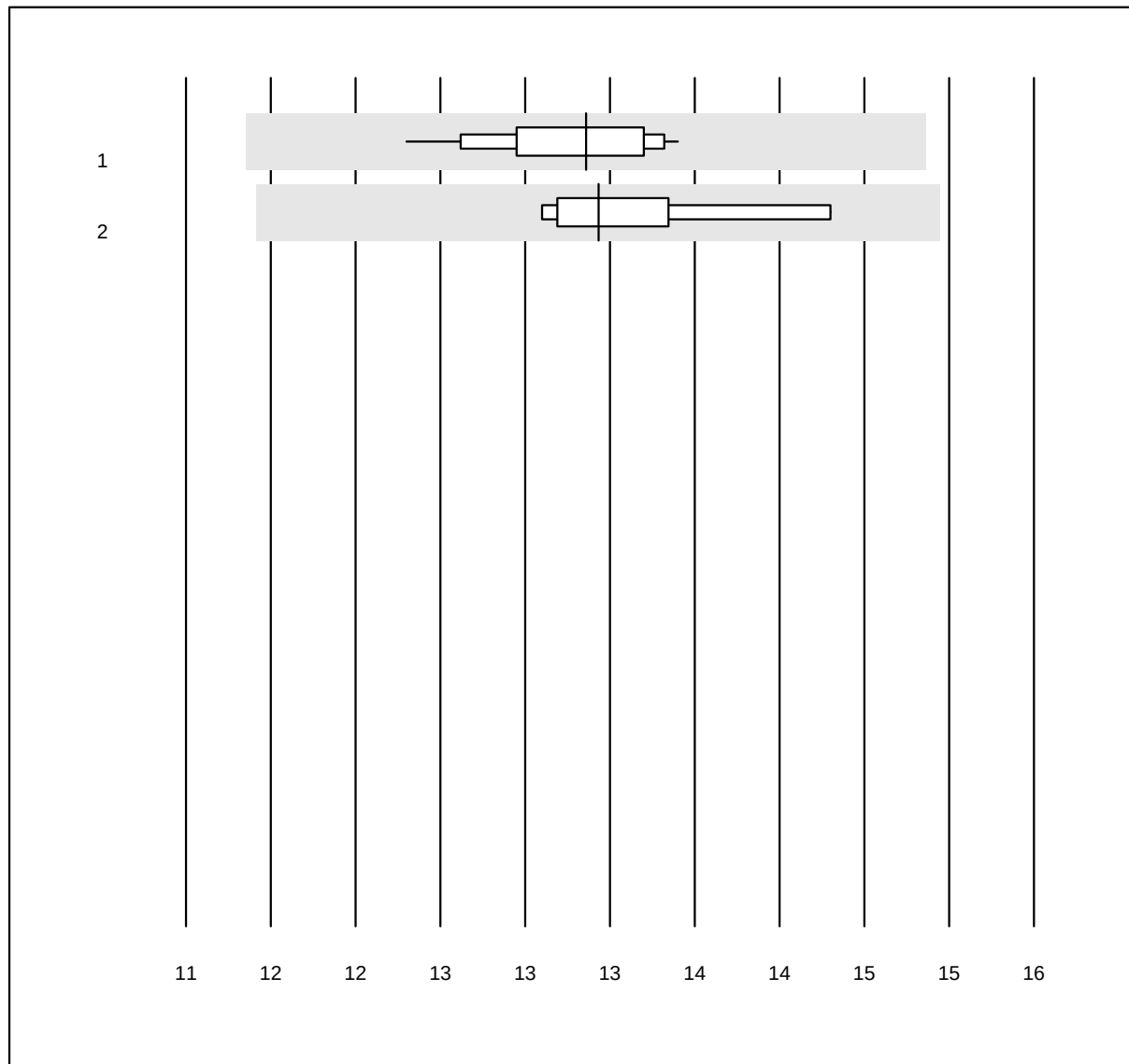


QUALAB Toleranz: 21%

CRP (mg/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AQT 90 FLEX        | 4     | 100.0 | 0.0       | 0.0       | 77.0         | 1.5  | e    |
| 2 Abbott             | 8     | 100.0 | 0.0       | 0.0       | 76.3         | 3.1  | e    |
| 3 Beckman            | 4     | 75.0  | 0.0       | 25.0      | 78.8         | 7.7  | e*   |
| 4 Spinit             | 5     | 80.0  | 20.0      | 0.0       | 60.9         | 10.7 | e*   |
| 5 Spotchem D-Concept | 5     | 100.0 | 0.0       | 0.0       | 79.2         | 6.5  | e*   |
| 6 andere Methoden    | 5     | 100.0 | 0.0       | 0.0       | 80.2         | 14.0 | a*   |

## IgG



QUALAB Toleranz: 15%

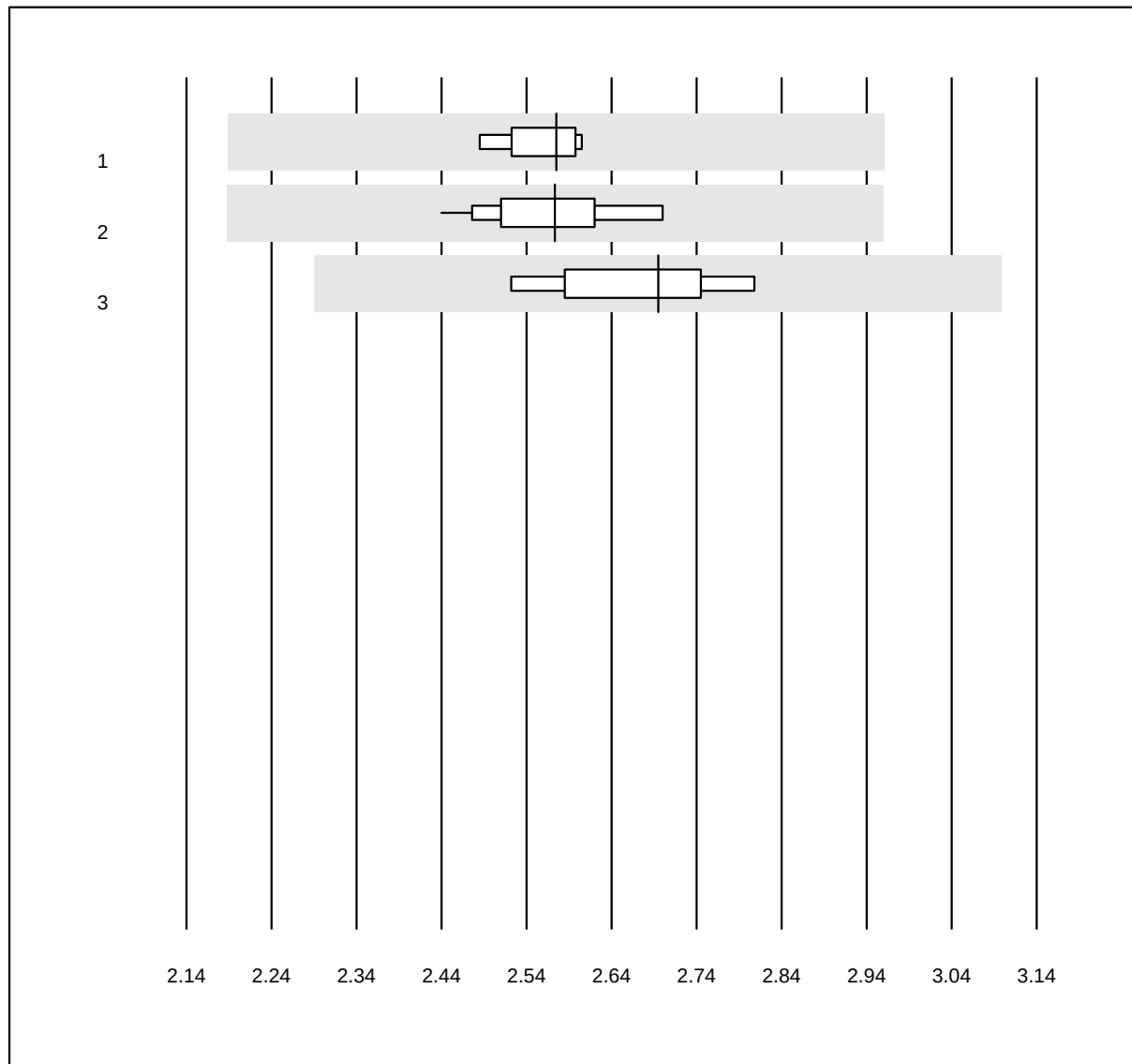
IgG (g/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 17    | 100.0 | 0.0       | 0.0       | 13.36        | 3.4  | e    |
| 2   | Siemens | 9     | 100.0 | 0.0       | 0.0       | 13.43        | 4.0  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)



## IgA



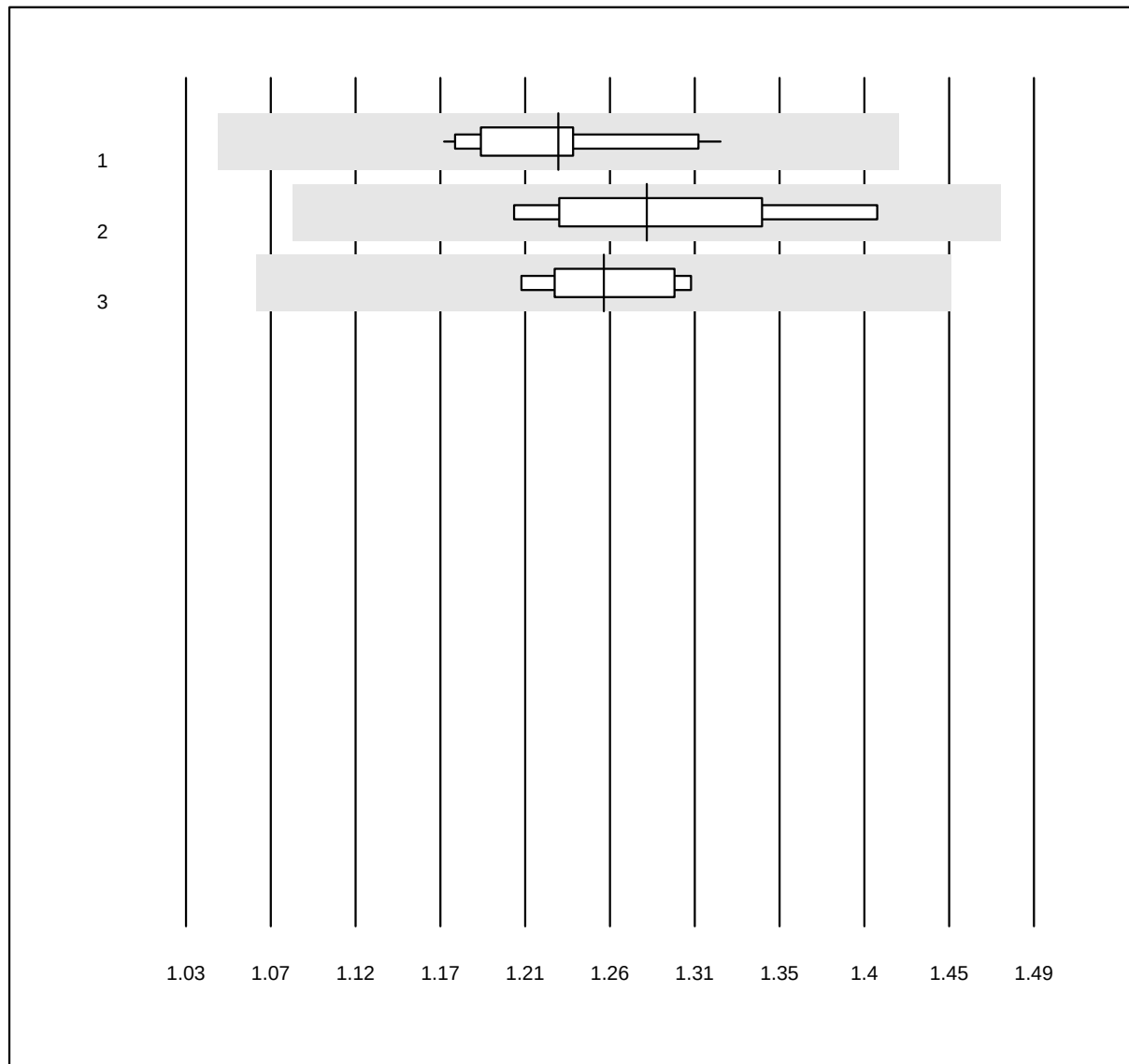
QUALAB Toleranz: 15%

IgA (g/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 2.58         | 1.6  | e    |
| 2 Roche     | 15    | 100.0 | 0.0       | 0.0       | 2.57         | 2.8  | e    |
| 3 Siemens   | 6     | 100.0 | 0.0       | 0.0       | 2.69         | 3.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

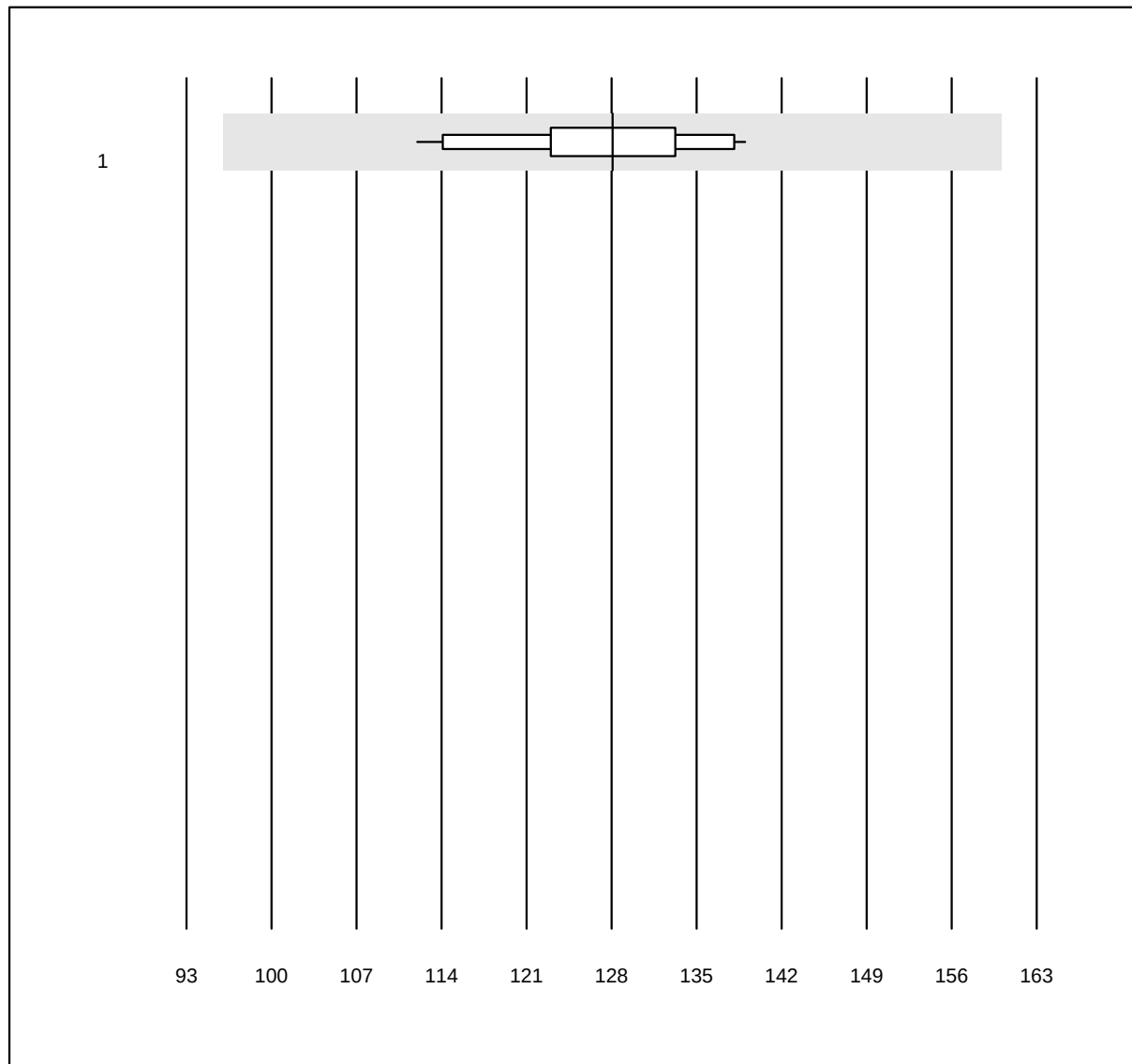
## IgM



QUALAB Toleranz: 15%

IgM (g/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche         | 15    | 100.0 | 0.0       | 0.0       | 1.23         | 3.4  | e    |
| 2           | Siemens       | 8     | 100.0 | 0.0       | 0.0       | 1.28         | 5.2  | e*   |
| 3           | Turbidimetrie | 5     | 100.0 | 0.0       | 0.0       | 1.26         | 2.8  | e    |

**Anti-Streptolysin-Antibodies**

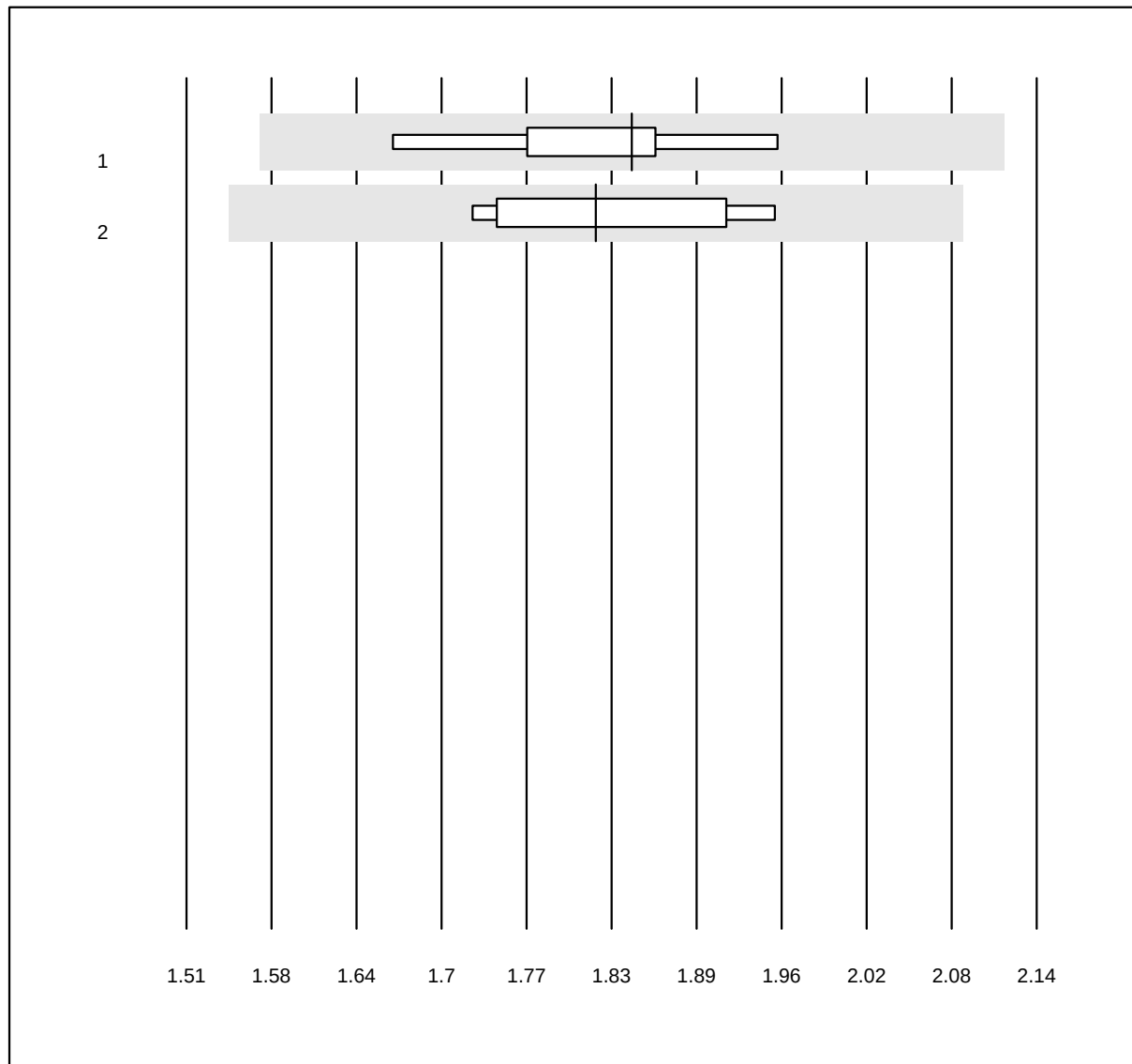
MQ Toleranz: 25%

Anti-Streptolysin-Antibodies  
(kIU/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 12    | 100.0 | 0.0       | 0.0       | 128          | 5.8  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Complement C3



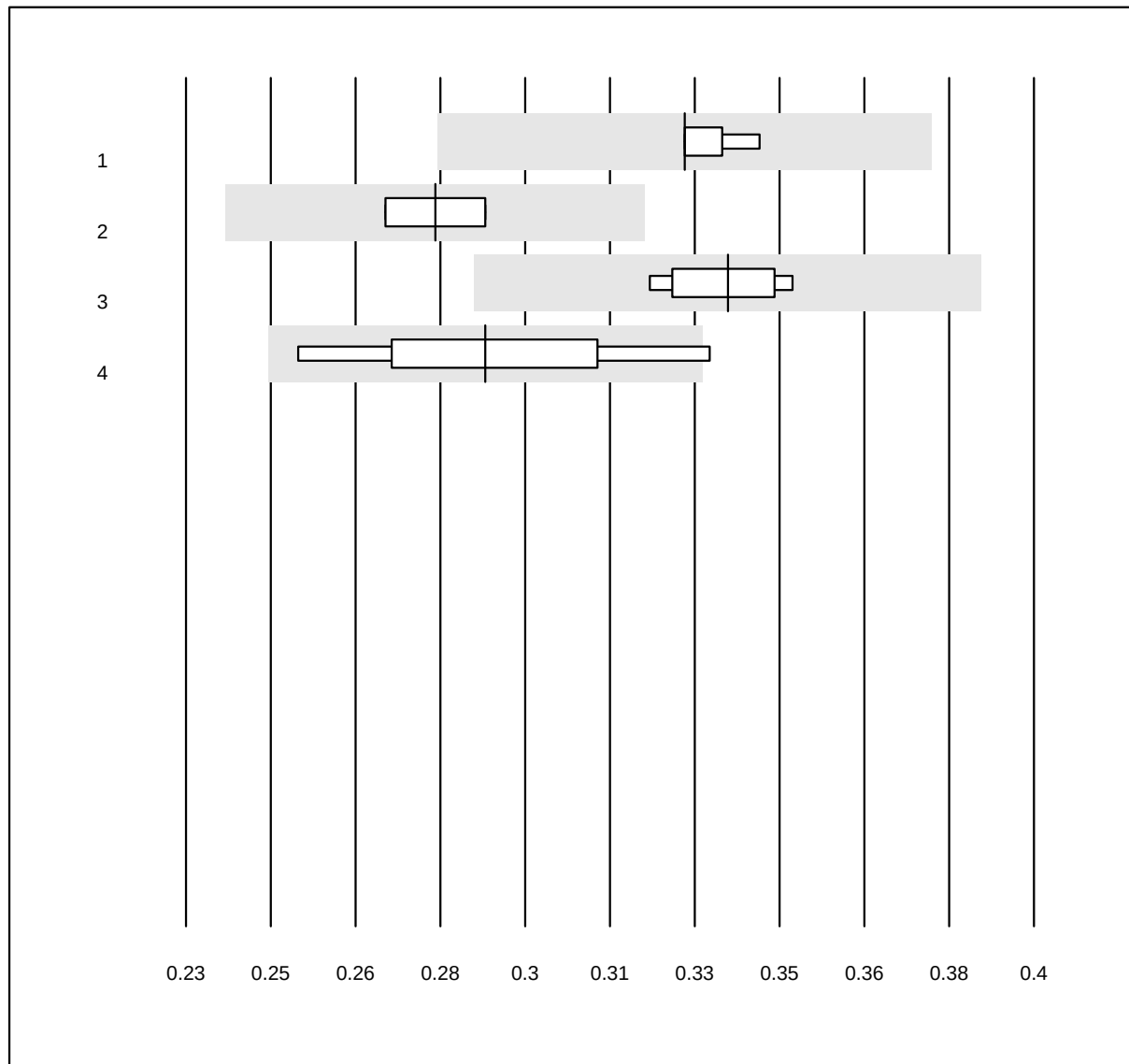
QUALAB Toleranz: 15%

Complement C3 (g/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 8     | 100.0 | 0.0       | 0.0       | 1.84         | 4.5  | e    |
| 2   | Siemens | 5     | 100.0 | 0.0       | 0.0       | 1.81         | 4.8  | e*   |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Complement C4

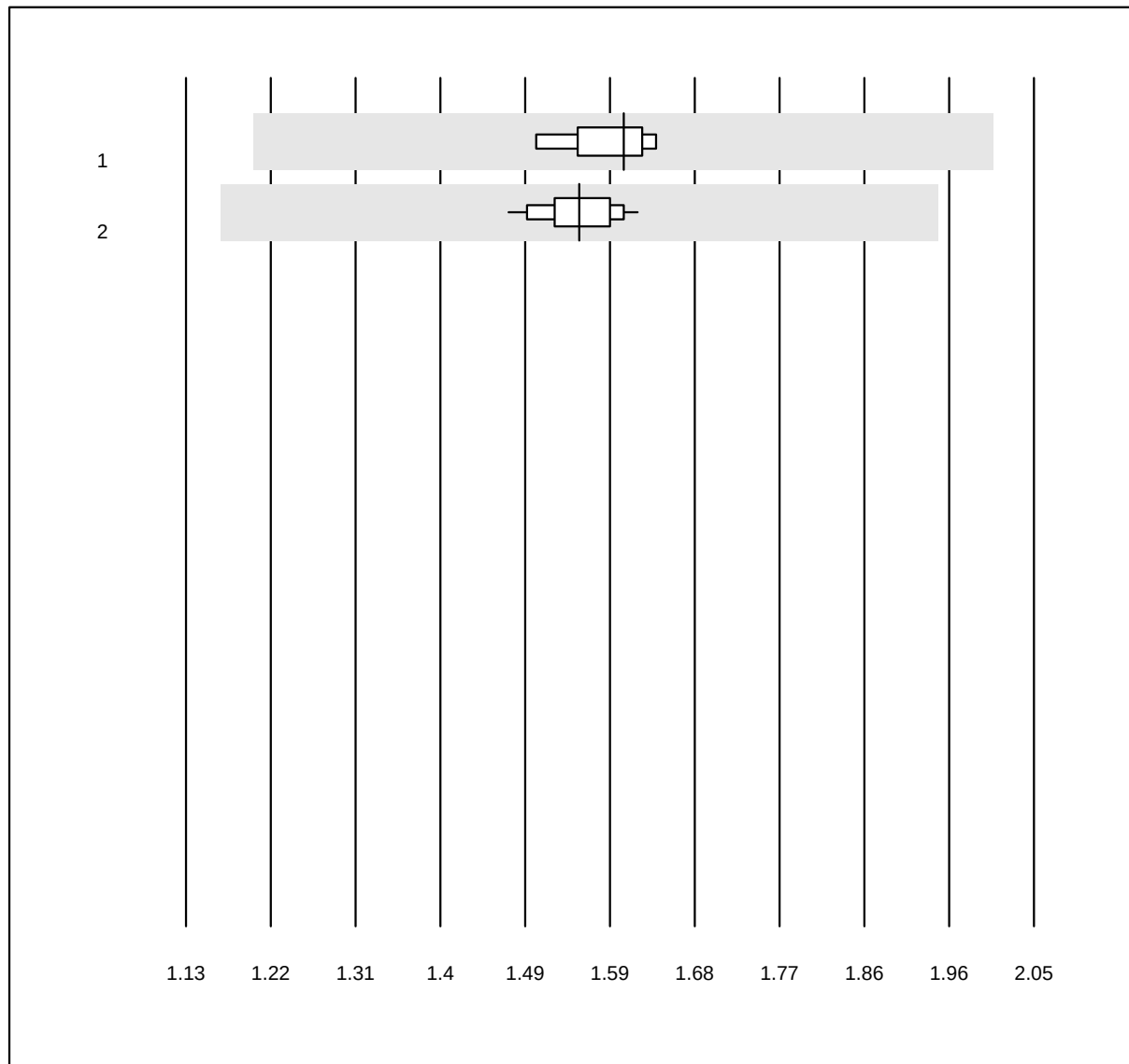


QUALAB Toleranz: 15%

Complement C4 (g/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alinity         | 4     | 100.0 | 0.0       | 0.0       | 0.33         | 1.5  | e    |
| 2 Roche           | 7     | 100.0 | 0.0       | 0.0       | 0.28         | 2.9  | e    |
| 3 Siemens         | 5     | 100.0 | 0.0       | 0.0       | 0.34         | 3.1  | e    |
| 4 andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 0.29         | 7.7  | e*   |

## Haptoglobin



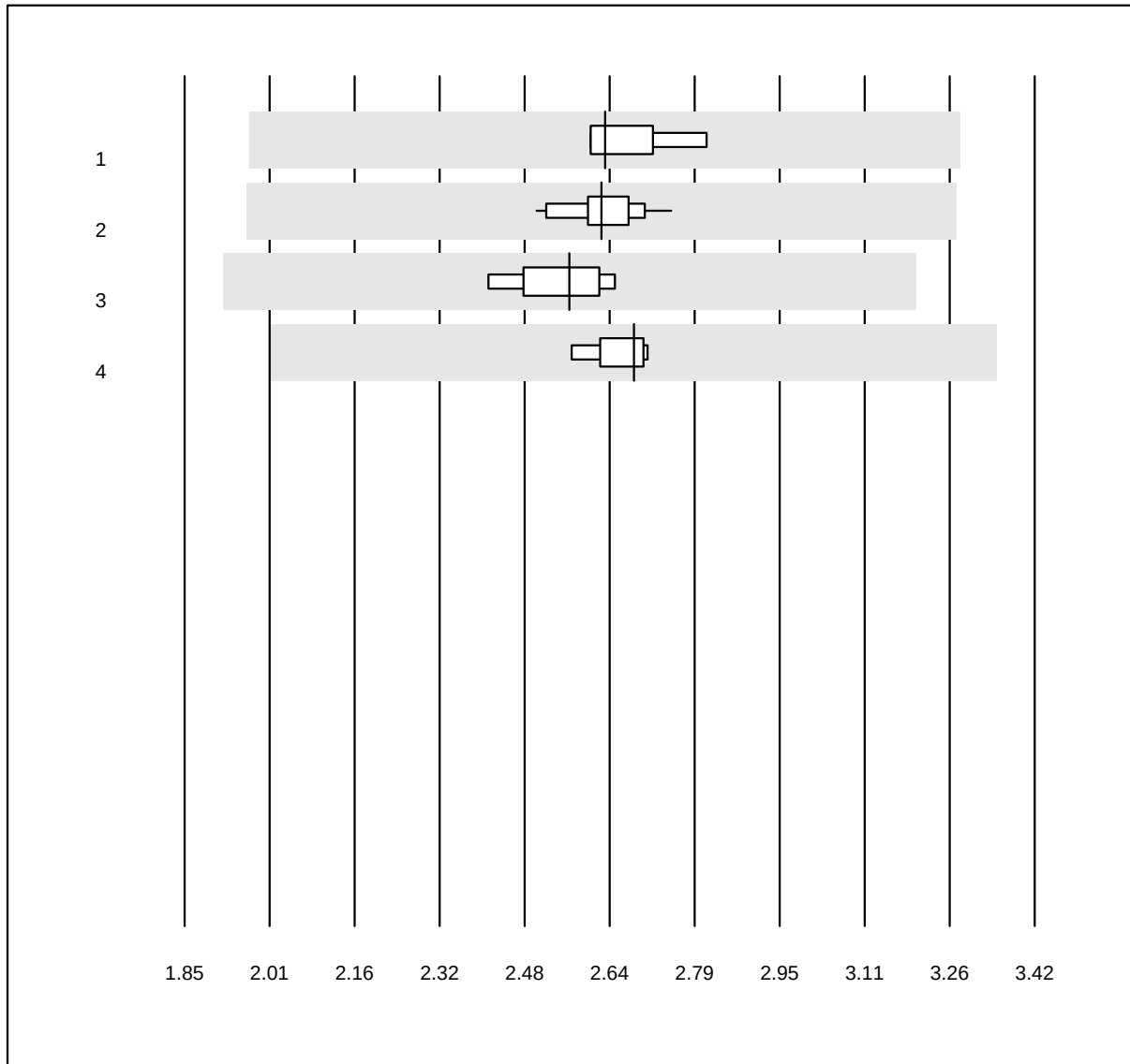
MQ Toleranz: 25%

Haptoglobin (g/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 1.60         | 2.4  | e    |
| 2 Roche     | 24    | 100.0 | 0.0       | 0.0       | 1.56         | 2.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Transferrin

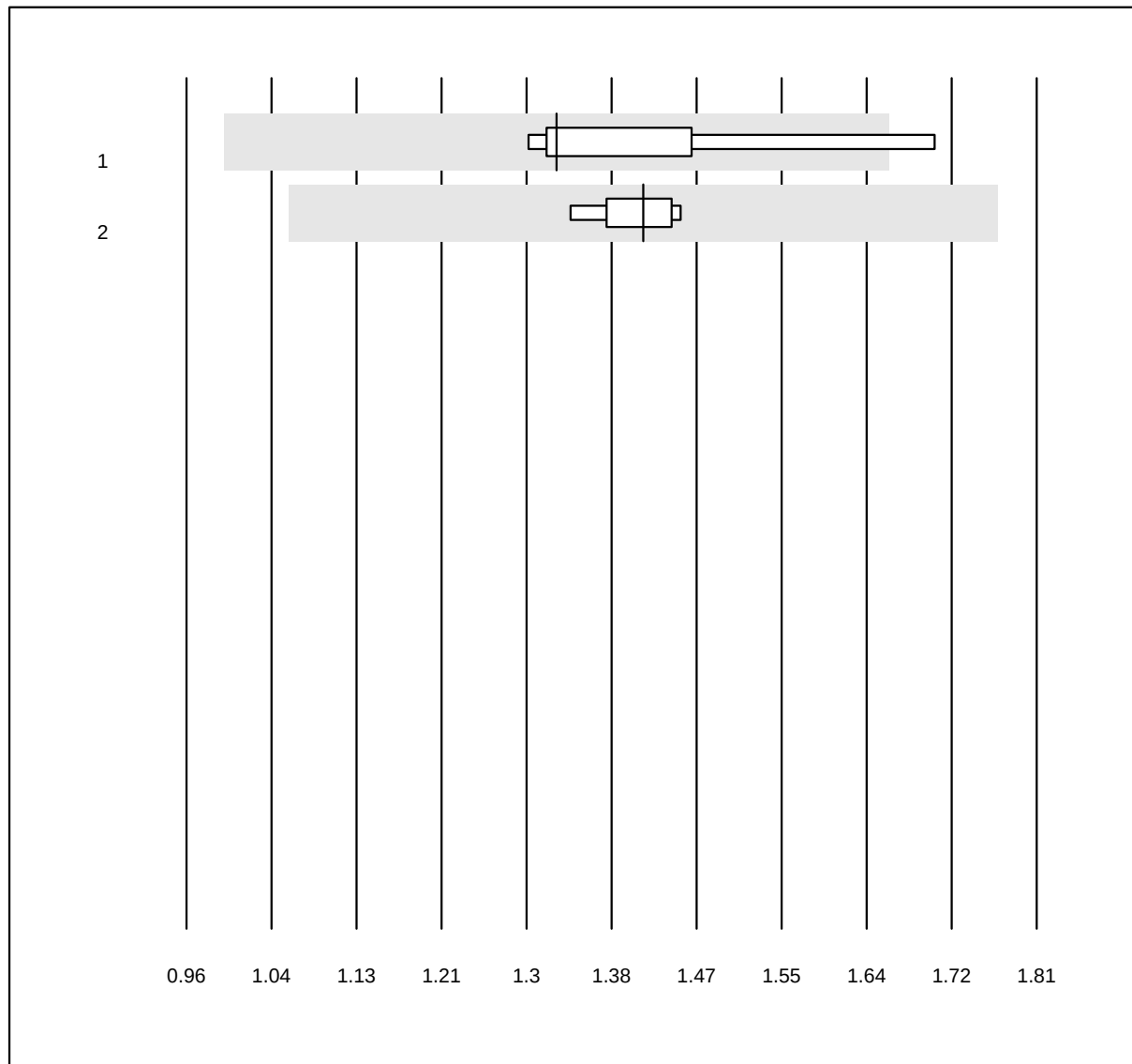


MQ Toleranz: 25%

Transferrin (g/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott          | 5     | 100.0 | 0.0       | 0.0       | 2.63         | 2.7  | e    |
| 2 Roche           | 25    | 100.0 | 0.0       | 0.0       | 2.62         | 2.4  | e    |
| 3 Siemens         | 5     | 100.0 | 0.0       | 0.0       | 2.56         | 3.0  | e    |
| 4 andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 2.68         | 1.7  | e    |

## Alpha-1-Antitrypsin



MQ Toleranz: 25%

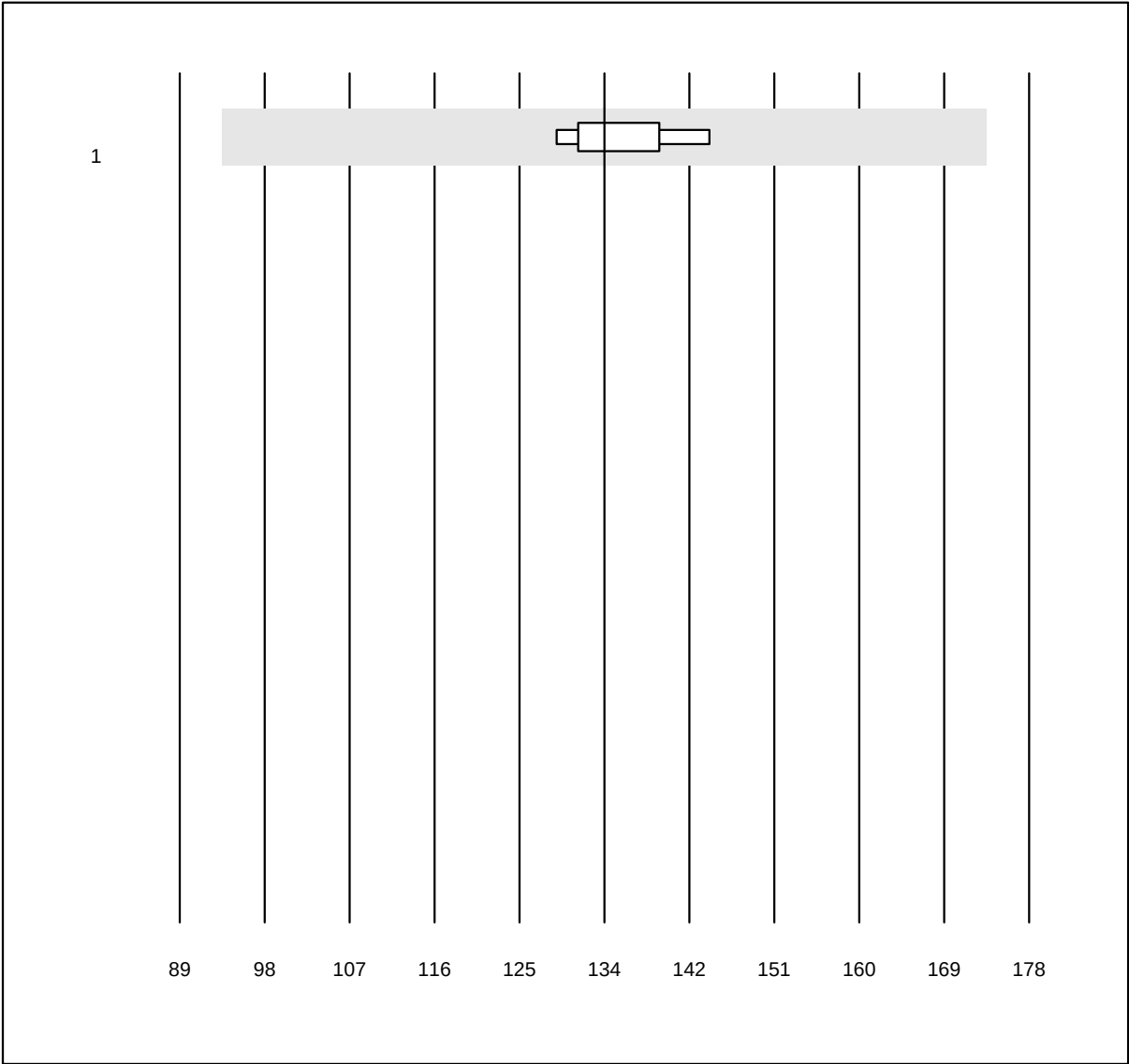
Alpha-1-Antitrypsin (g/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 5     | 100.0 | 0.0       | 0.0       | 1.33         | 8.9  | e*   |
| 2   | Siemens | 5     | 100.0 | 0.0       | 0.0       | 1.42         | 2.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



IgE



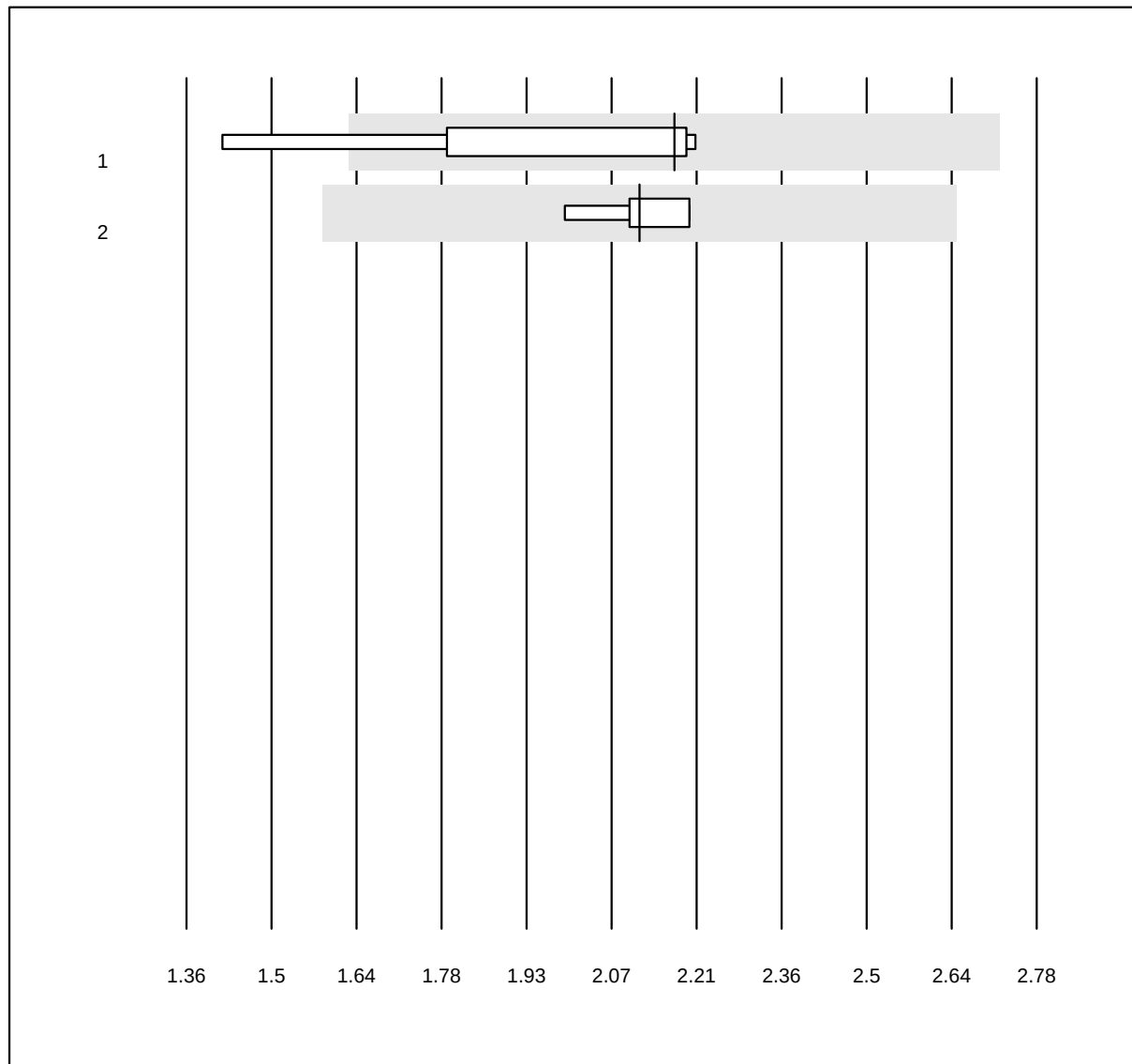
QUALAB Toleranz: 30%

IgE (kU/L)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 4     | 100.0 | 0.0       | 0.0       | 134          | 3.5  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Beta-2 microglobuline



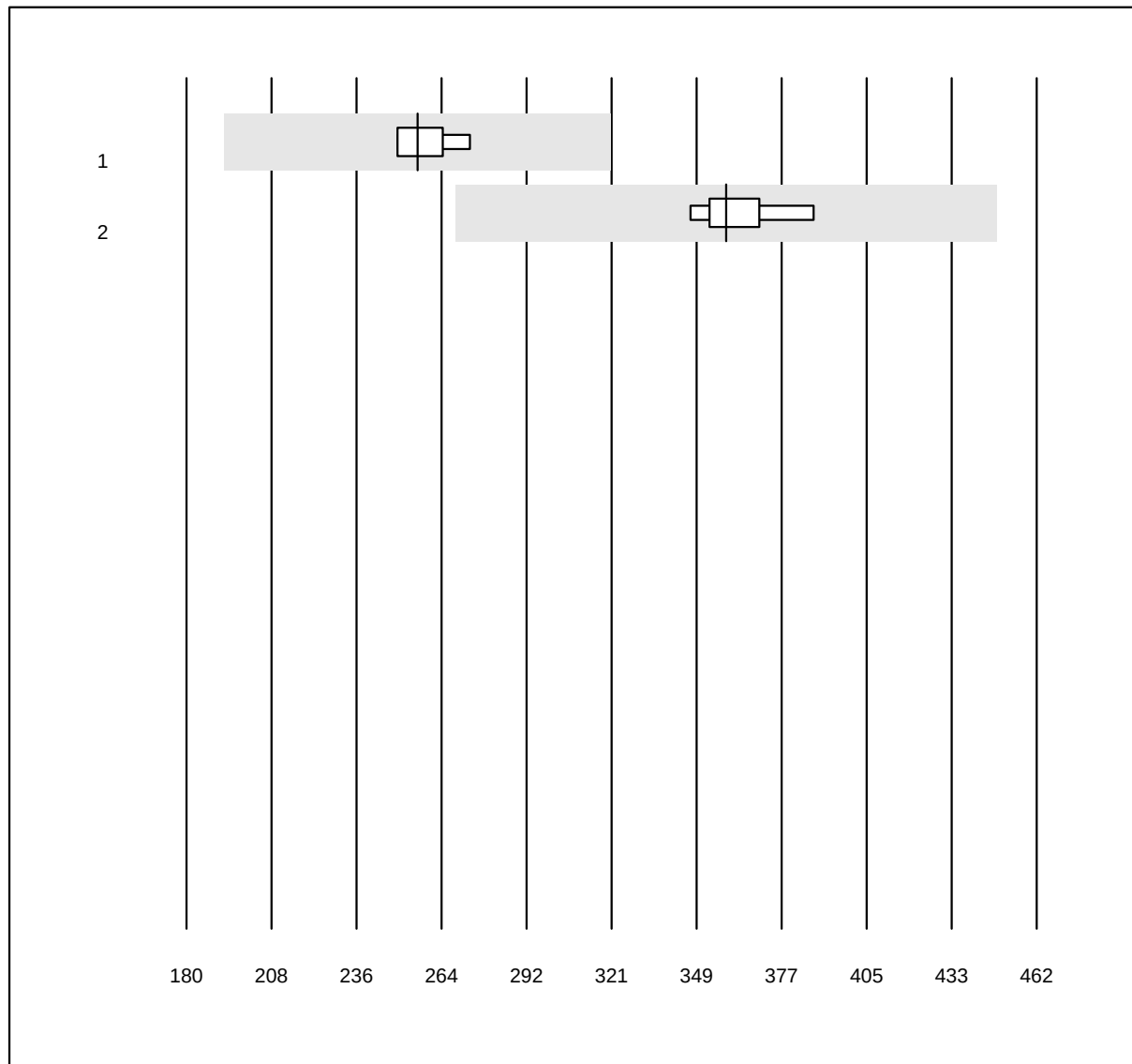
MQ Toleranz: 25%

Beta-2 microglobuline  
(mg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Liaison   | 4     | 100.0 | 0.0       | 0.0       | 2.17         | 12.5 | e*   |
| 2 Roche     | 7     | 100.0 | 0.0       | 0.0       | 2.12         | 3.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Ceruloplasmin



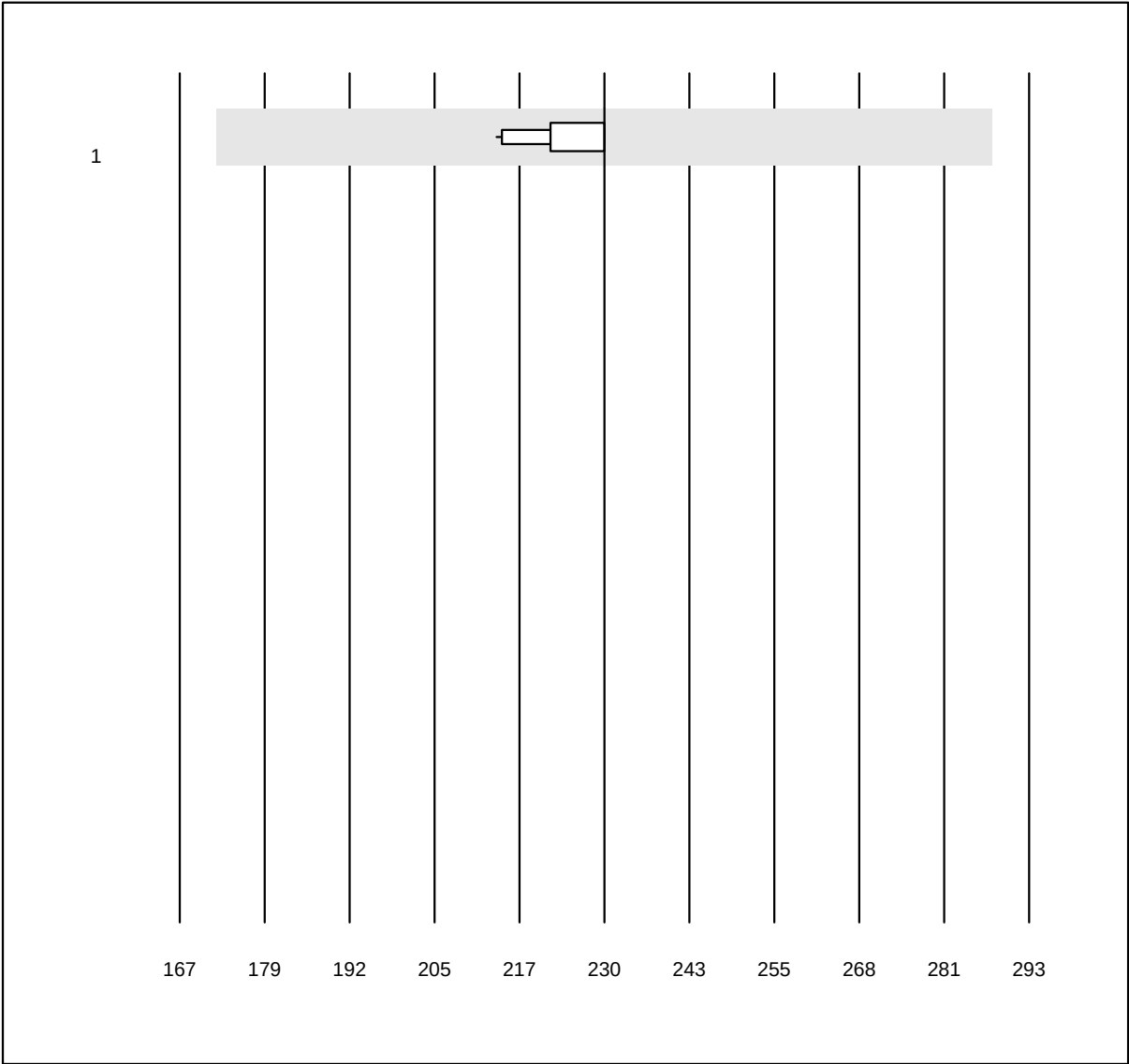
MQ Toleranz: 25%

Ceruloplasmin (mg/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 5     | 100.0 | 0.0       | 0.0       | 256.67       | 3.2  | e    |
| 2   | Siemens | 5     | 100.0 | 0.0       | 0.0       | 359.00       | 3.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Prealbumin



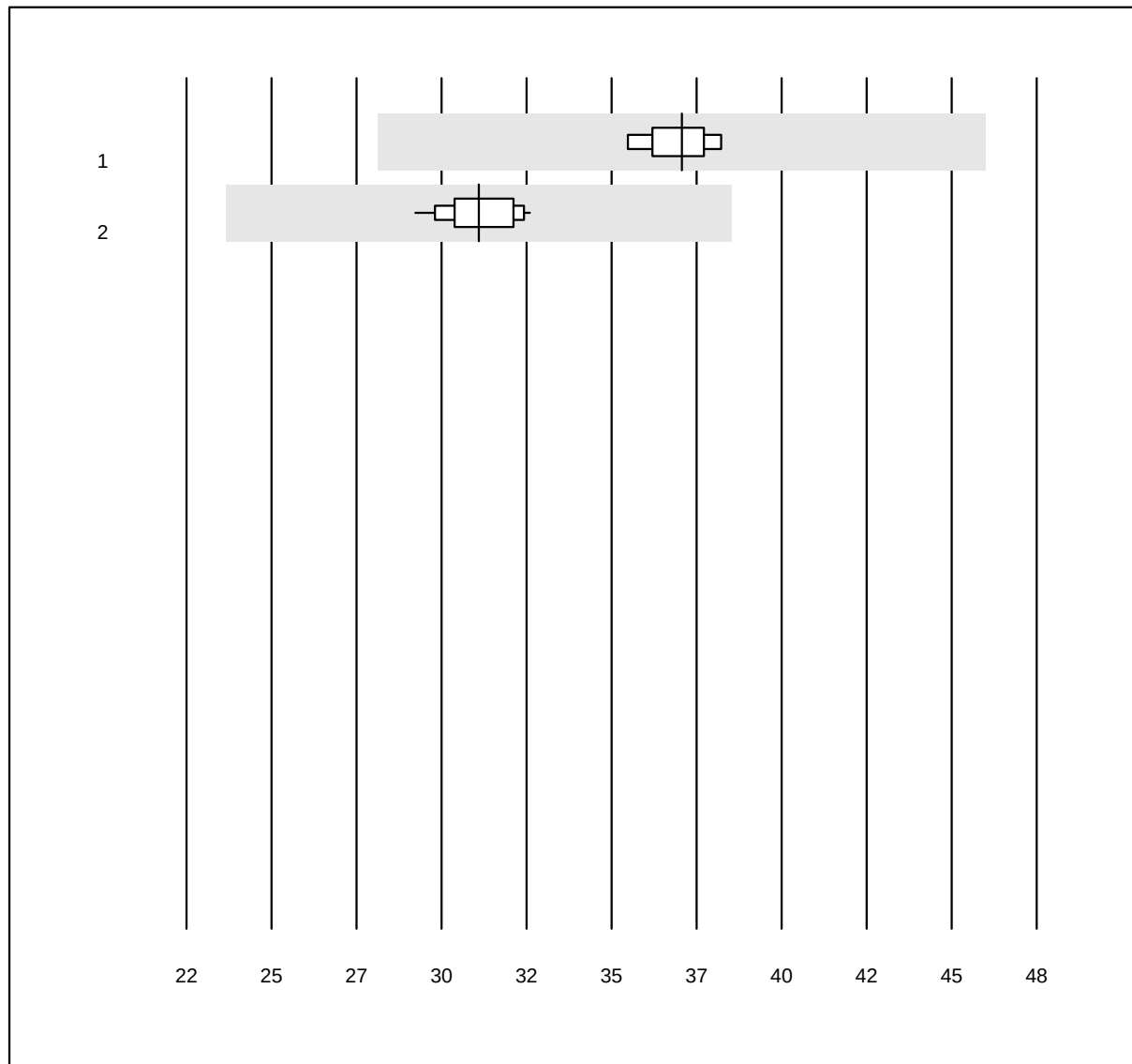
MQ Toleranz: 25%

Prealbumin (mg/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 10    | 100.0 | 0.0       | 0.0       | 230.00       | 2.5  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Rheumatoid factor



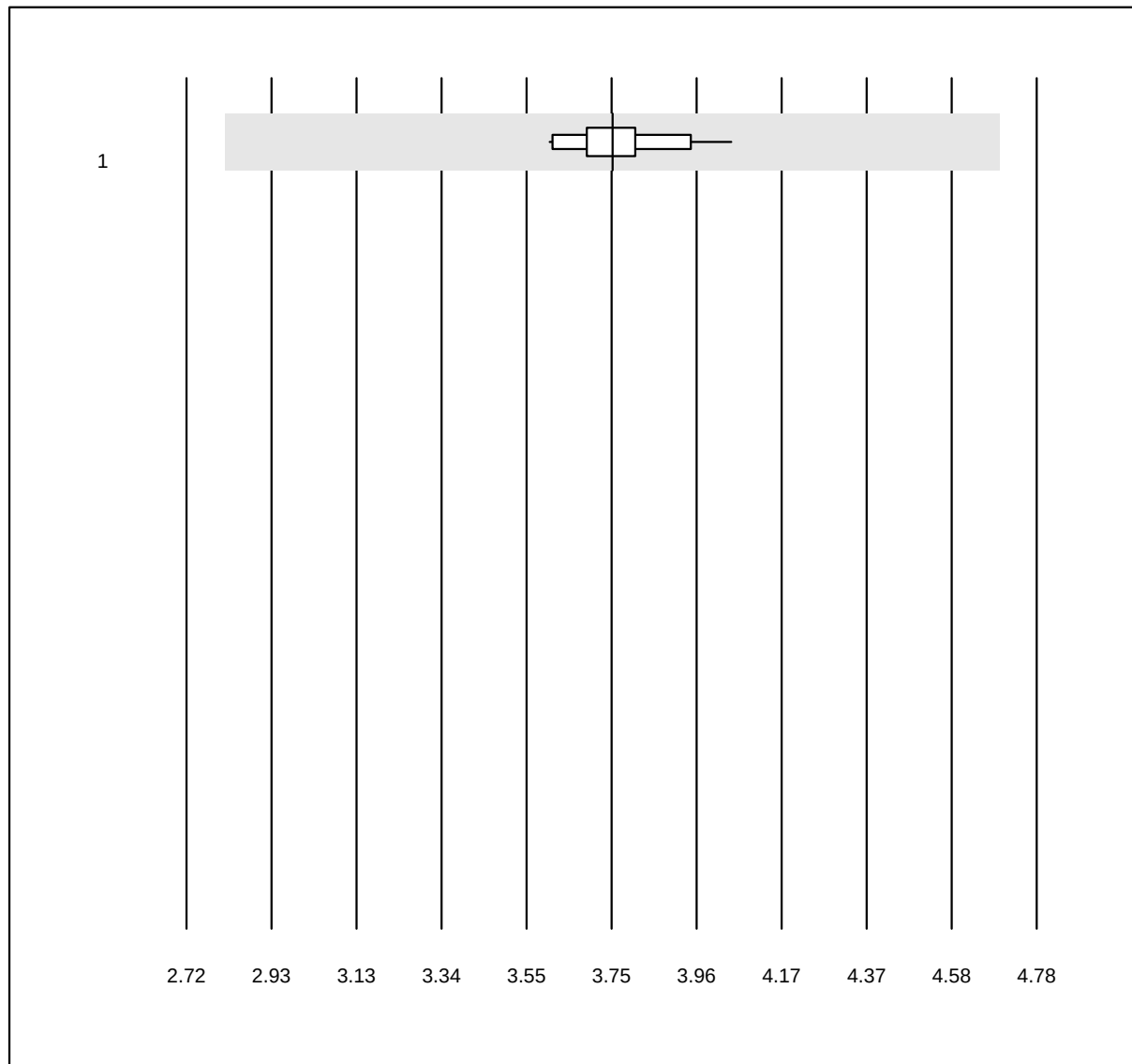
MQ Toleranz: 25%

Rheumatoid factor (U/ml)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 37.1         | 2.2  | e    |
| 2 Roche     | 15    | 100.0 | 0.0       | 0.0       | 30.9         | 3.1  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Soluble transferrin receptor



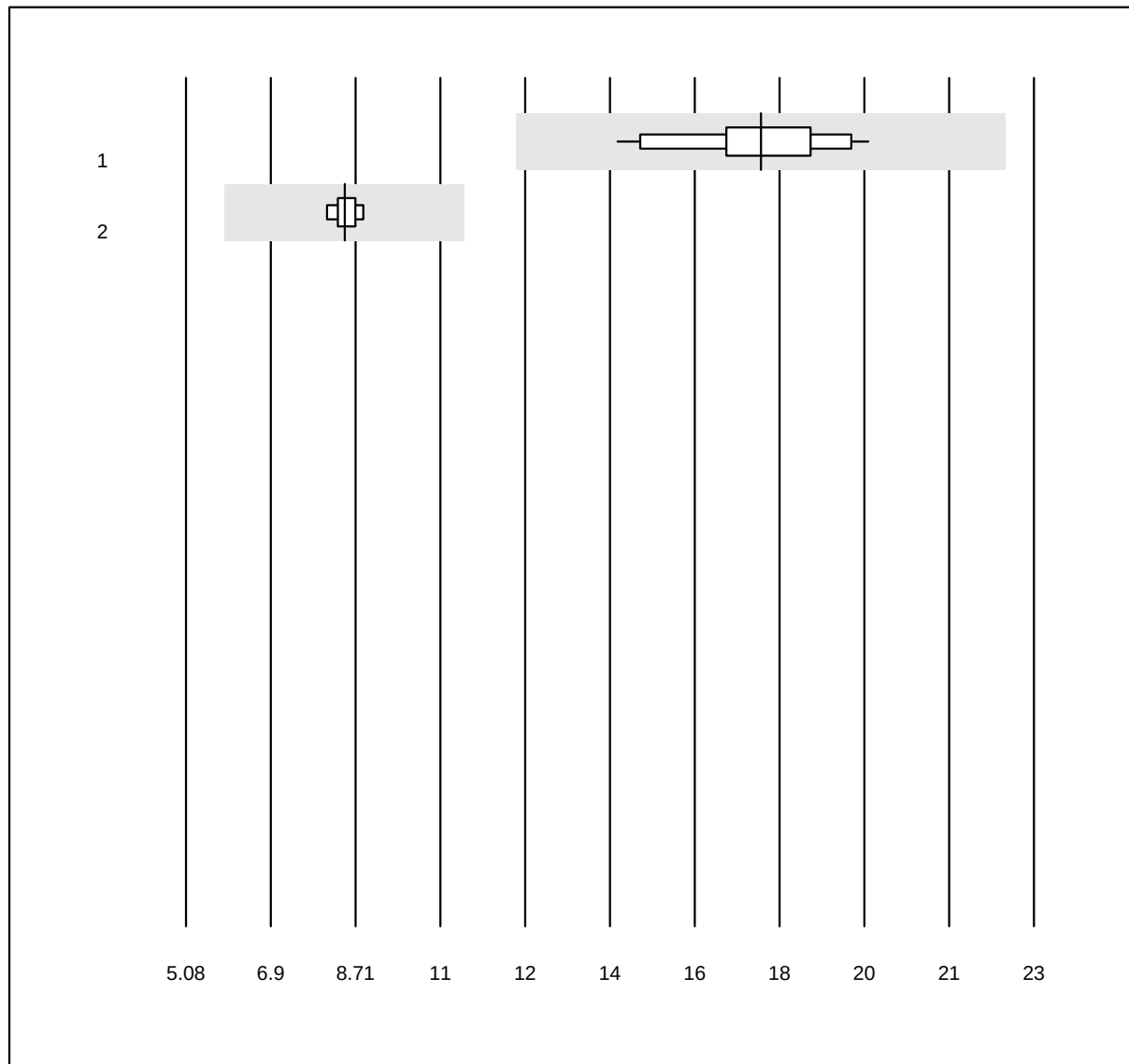
MQ Toleranz: 25%

Soluble transferrin receptor  
(mg/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 16    | 100.0 | 0.0       | 0.0       | 3.8          | 3.0  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## free light chain kappa

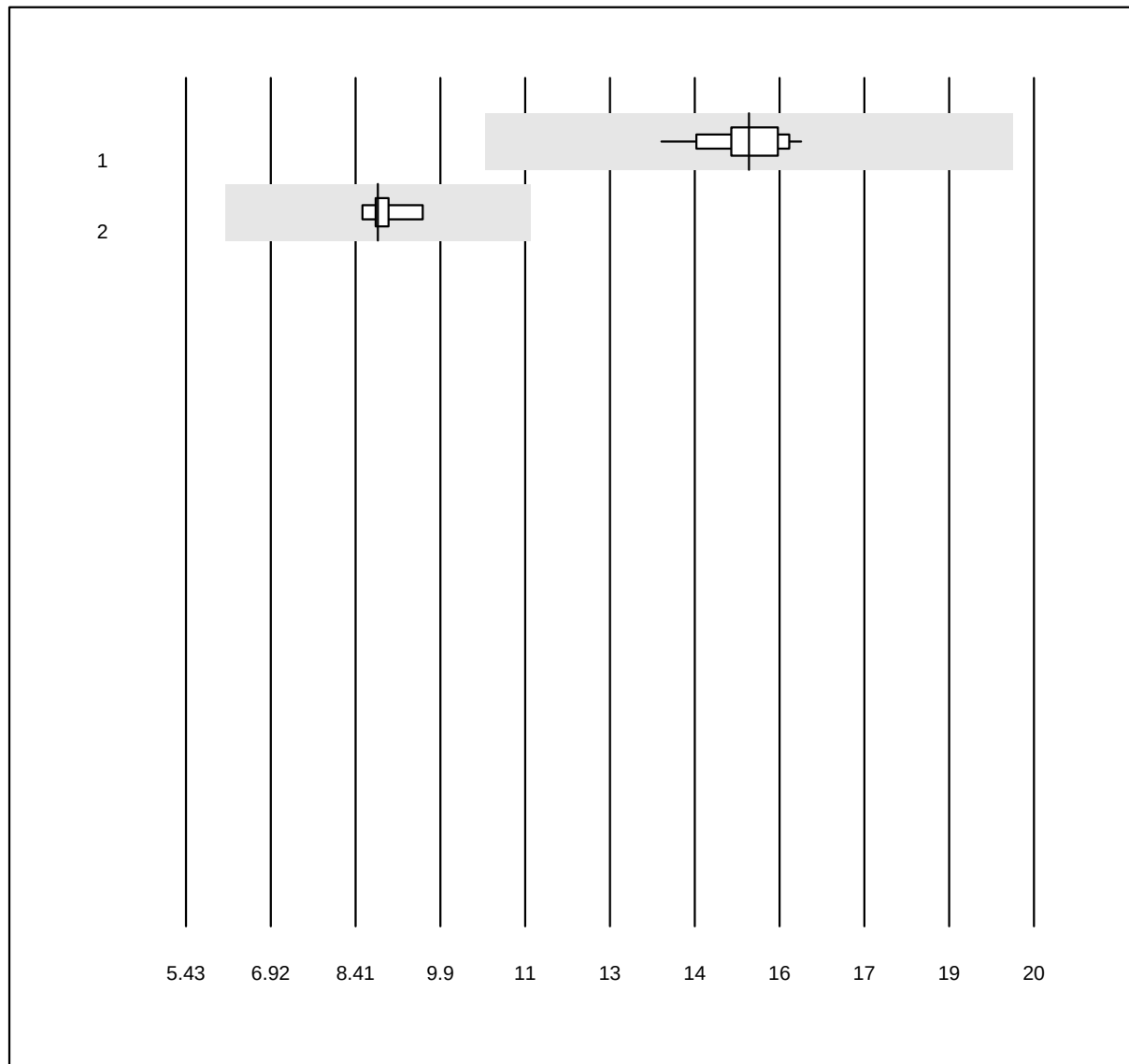


QUALAB Toleranz: 30%

free light chain kappa (mg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Freelite  | 15    | 100.0 | 0.0       | 0.0       | 17.23        | 8.6  | e    |
| 2 N Latex   | 7     | 100.0 | 0.0       | 0.0       | 8.44         | 3.0  | e    |

## free light chain lambda



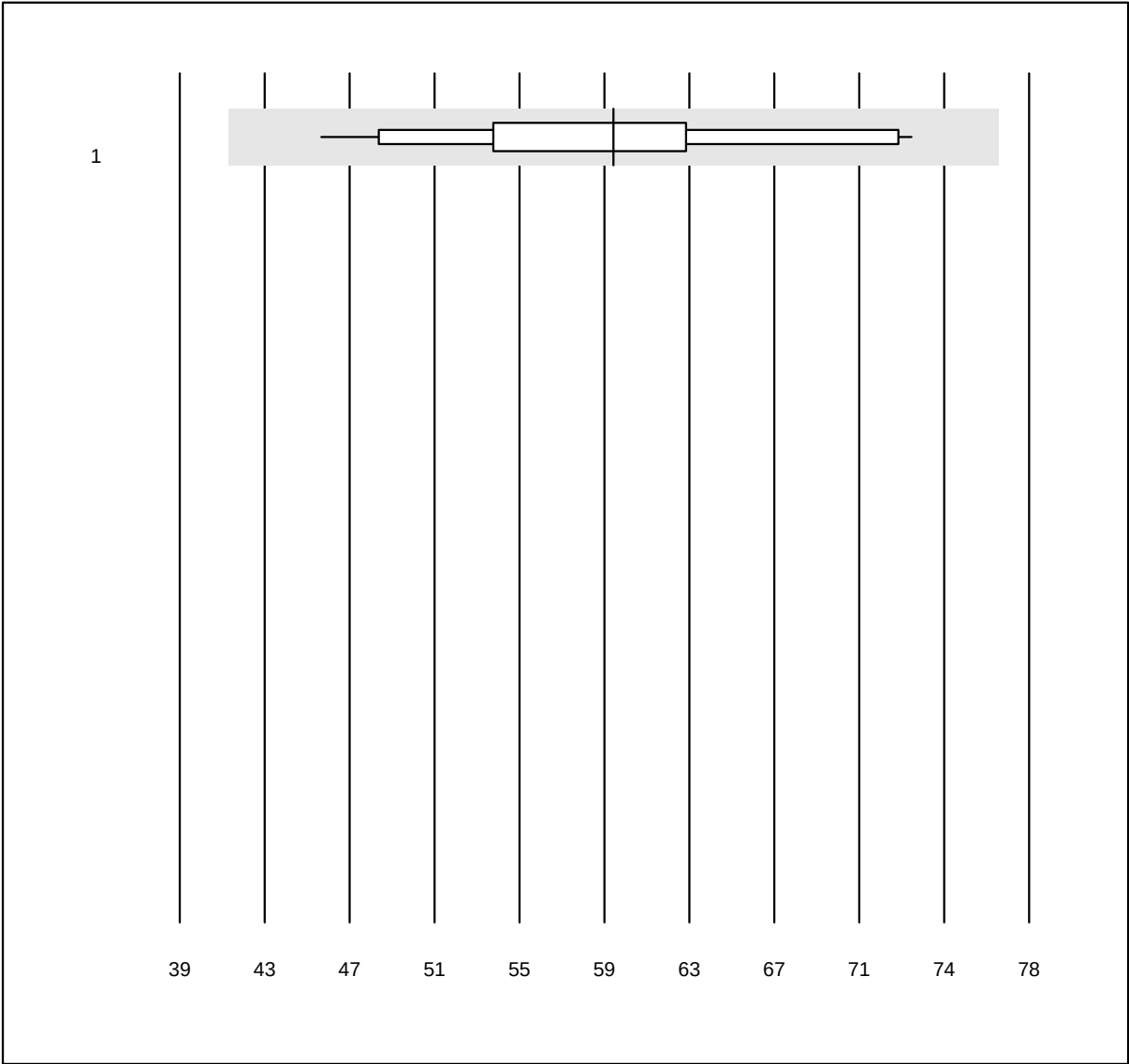
QUALAB Toleranz: 30%

free light chain lambda  
(mg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Freelite  | 15    | 100.0 | 0.0       | 0.0       | 15.10        | 3.8  | e    |
| 2 N Latex   | 7     | 100.0 | 0.0       | 0.0       | 8.73         | 3.2  | e    |



IgE peanut qn

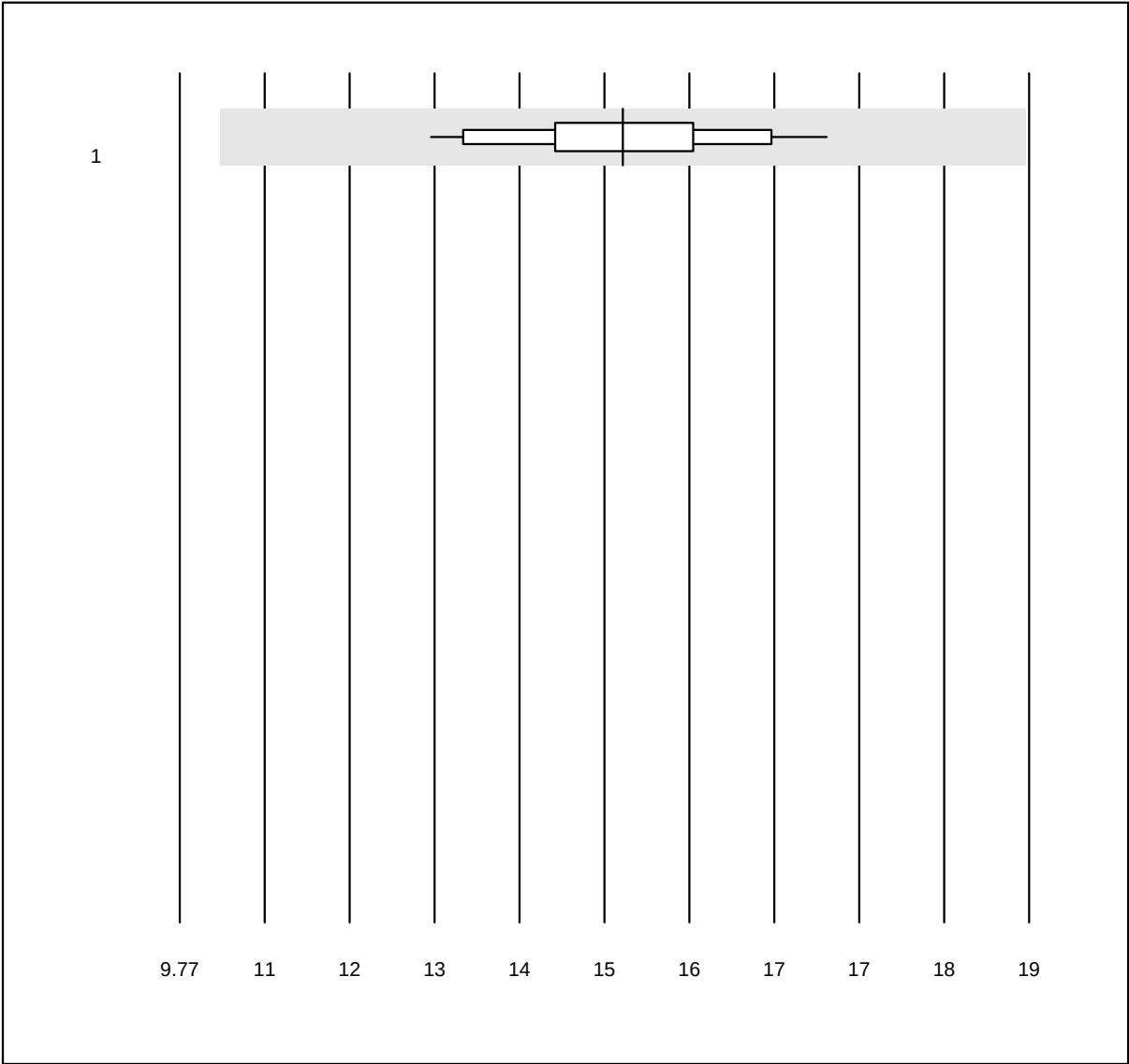


MQ Toleranz: 30%

IgE peanut qn (kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 13    | 100.0 | 0.0       | 0.0       | 58.92        | 12.6 | e    |

IgE birch qn

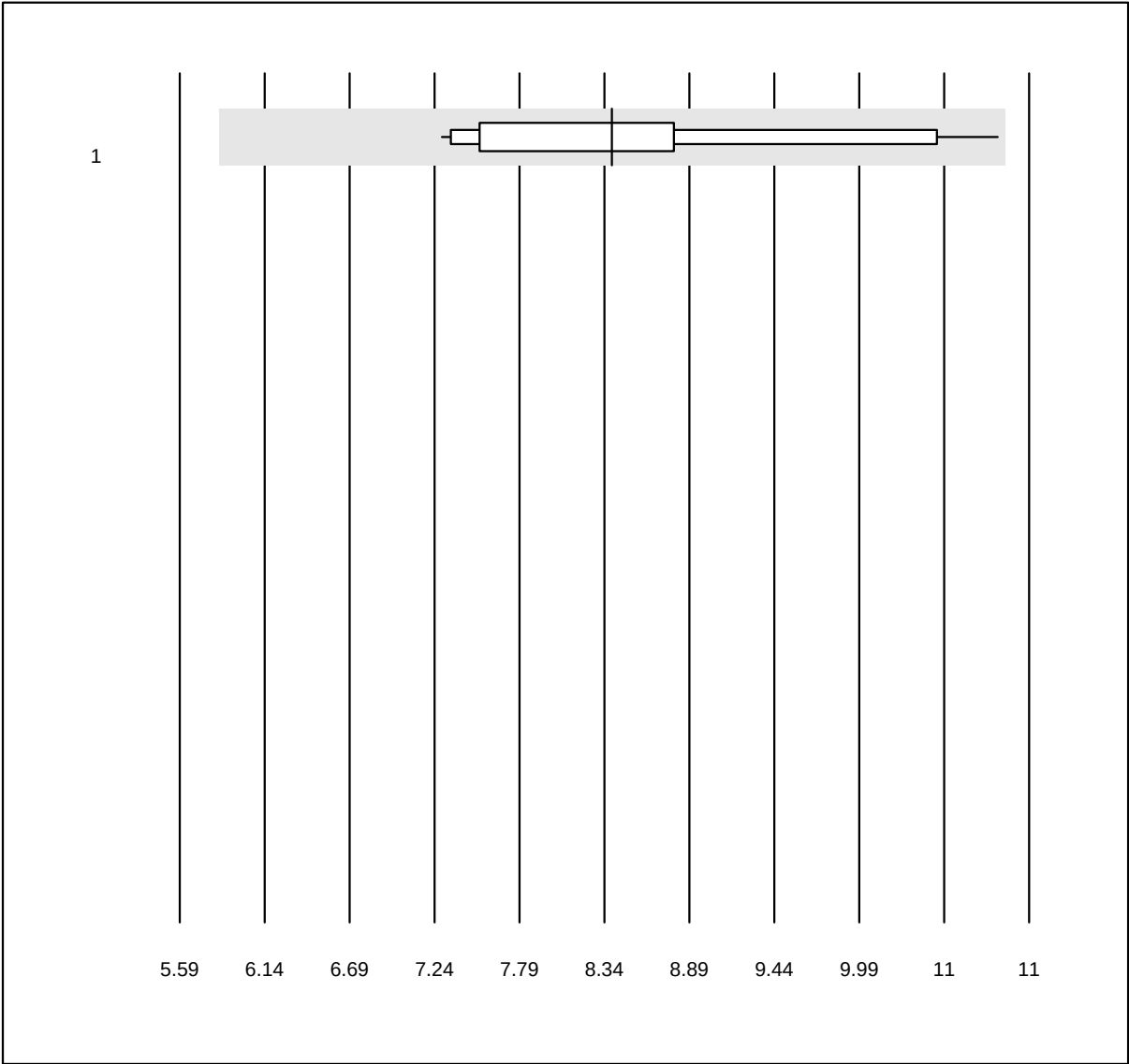


QUALAB Toleranz: 30%

IgE birch qn (kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 14    | 100.0 | 0.0       | 0.0       | 14.59        | 7.7  | e    |

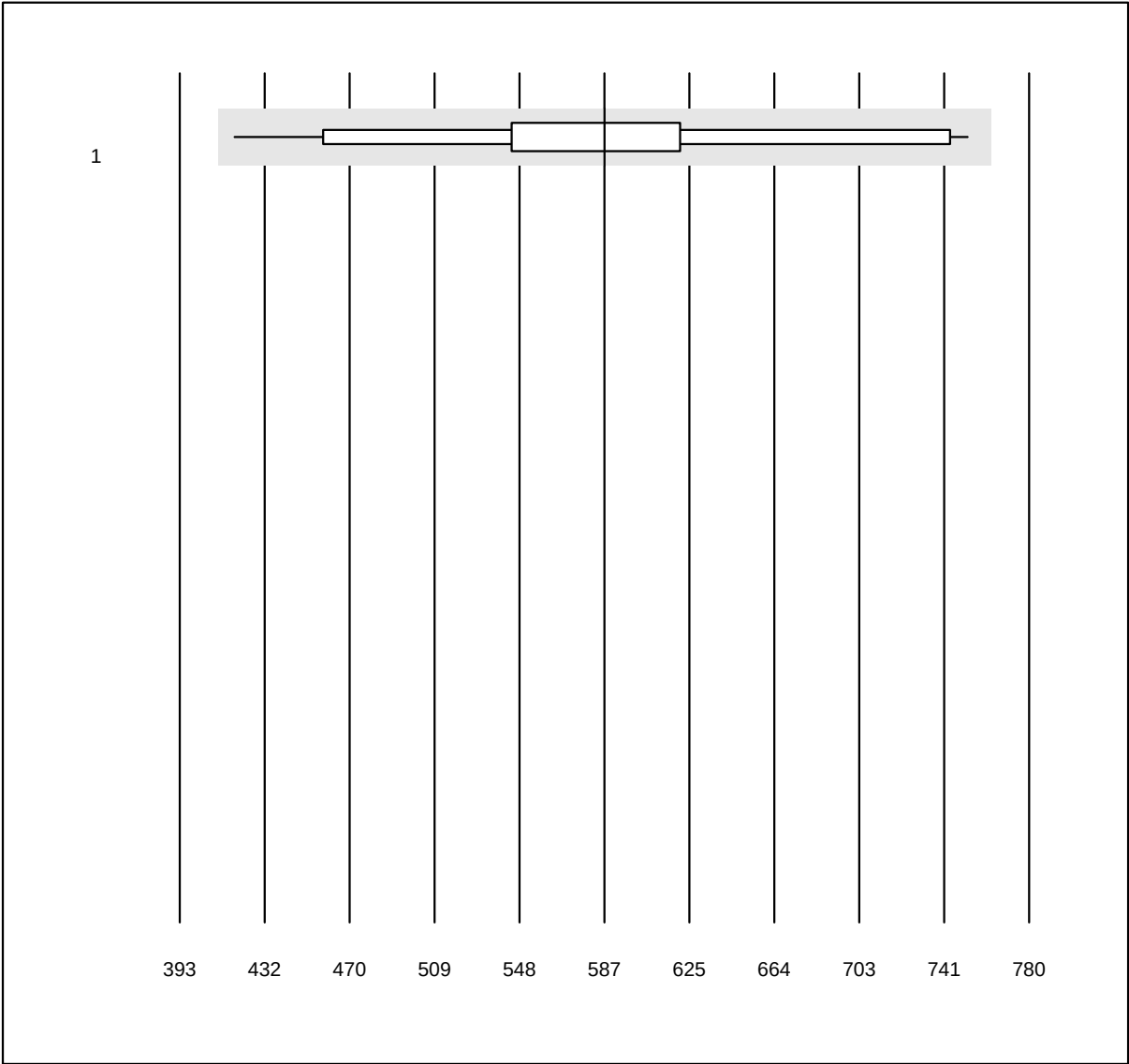
IgE cat qn



QUALAB Toleranz: 30%

IgE cat qn (kU/L)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 13    | 92.3 | 0.0       | 7.7       | 8.34         | 12.2 | e    |

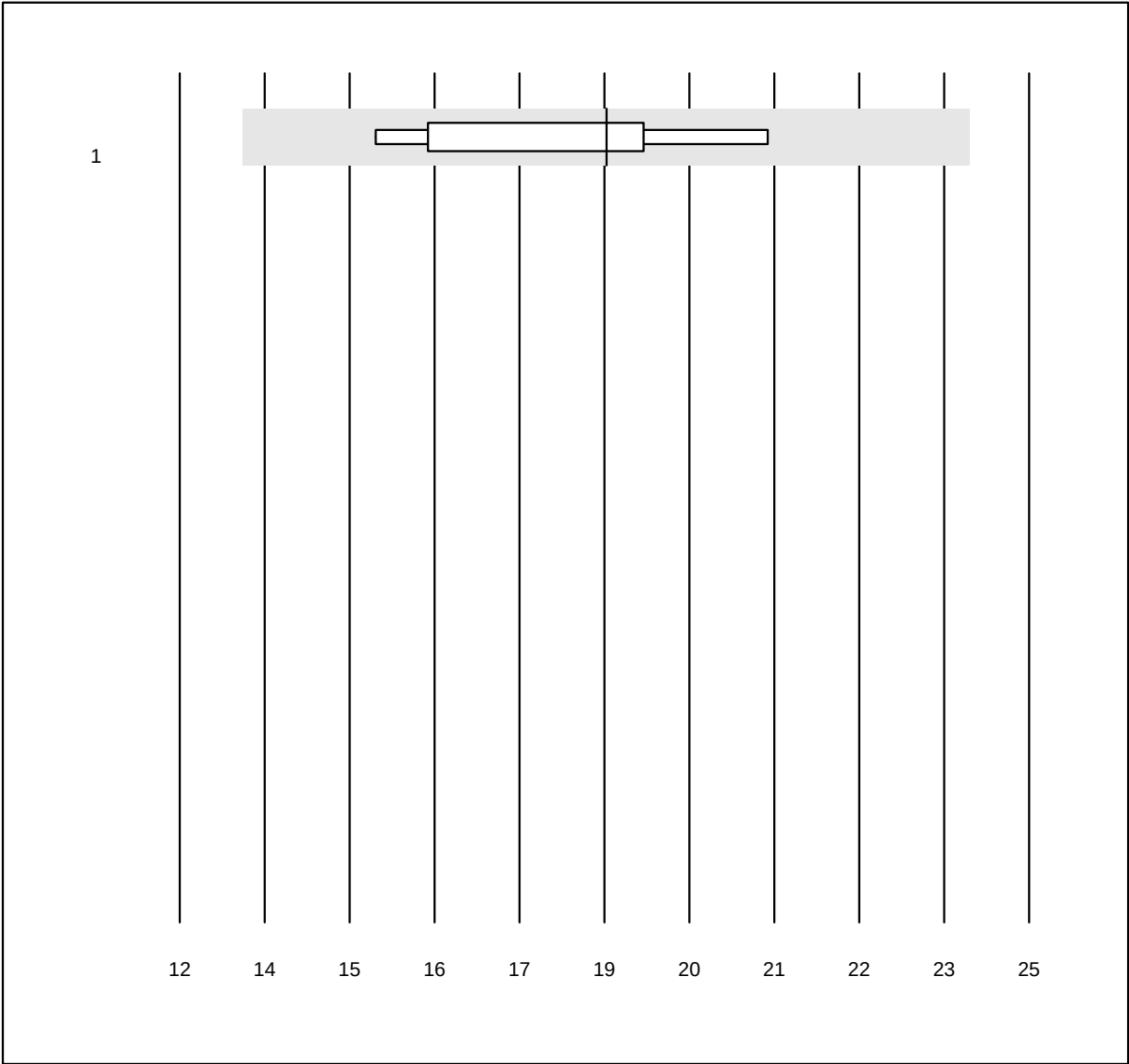


QUALAB Toleranz: 30%

(kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 14    | 100.0 | 0.0       | 0.0       | 587          | 14.9 | e*   |

IgE sx1 qn

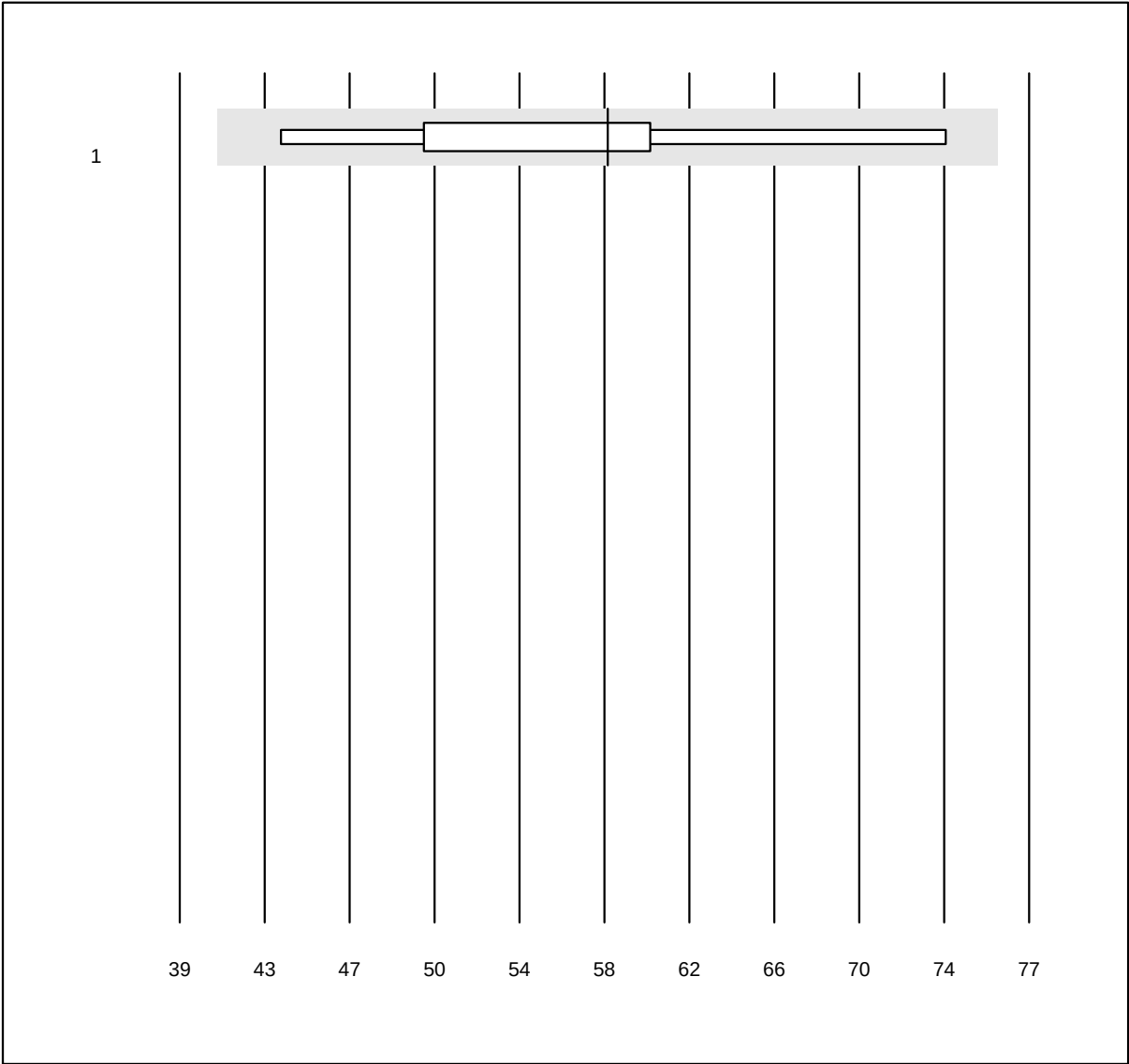


MQ Toleranz: 30%

IgE sx1 qn (kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 9     | 100.0 | 0.0       | 0.0       | 18.53        | 11.1 | e*   |

IgE fx5 qn

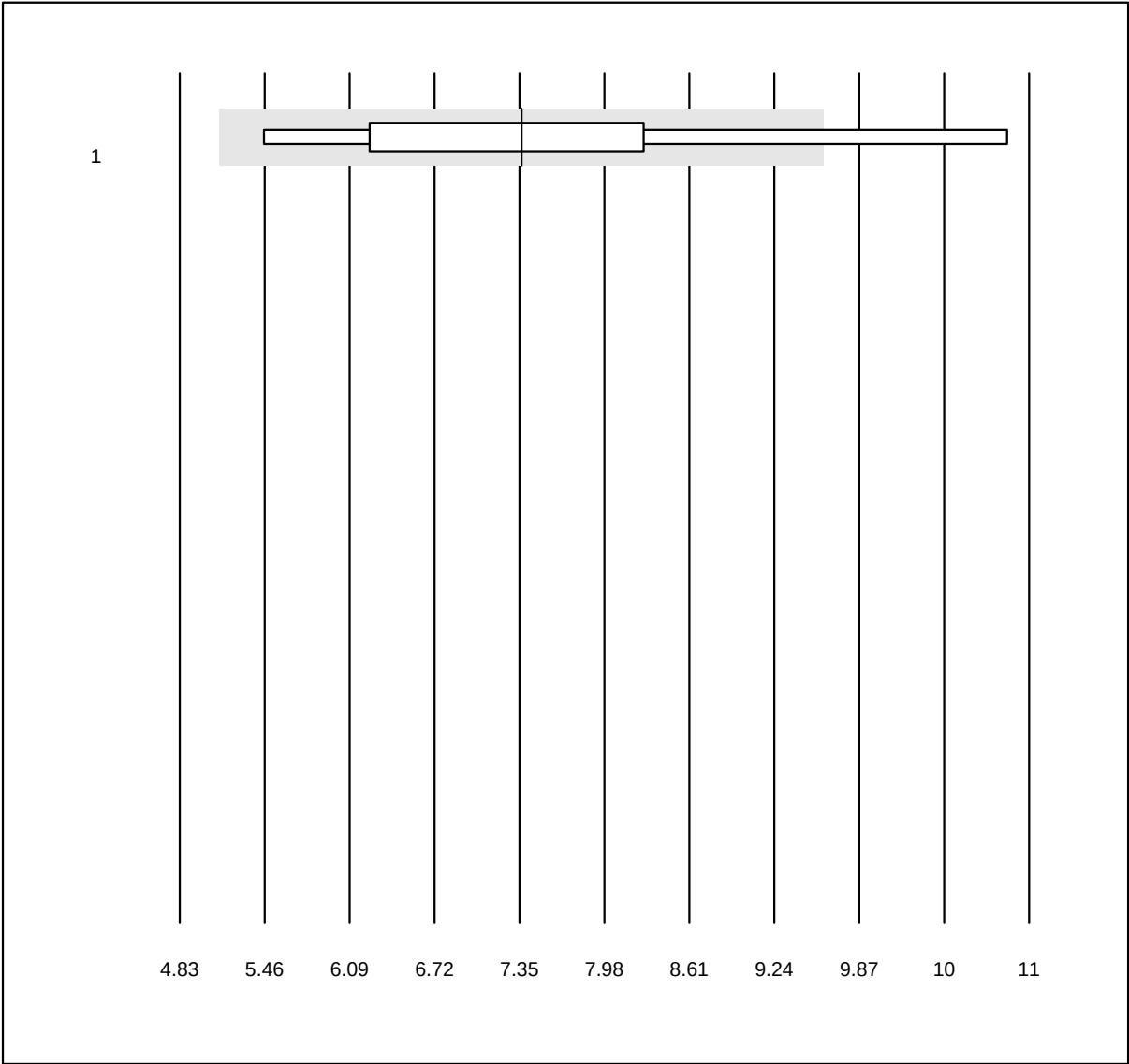


MQ Toleranz: 30%

IgE fx5 qn (kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 8     | 100.0 | 0.0       | 0.0       | 58.15        | 15.6 | a*   |

IgE rx1qn

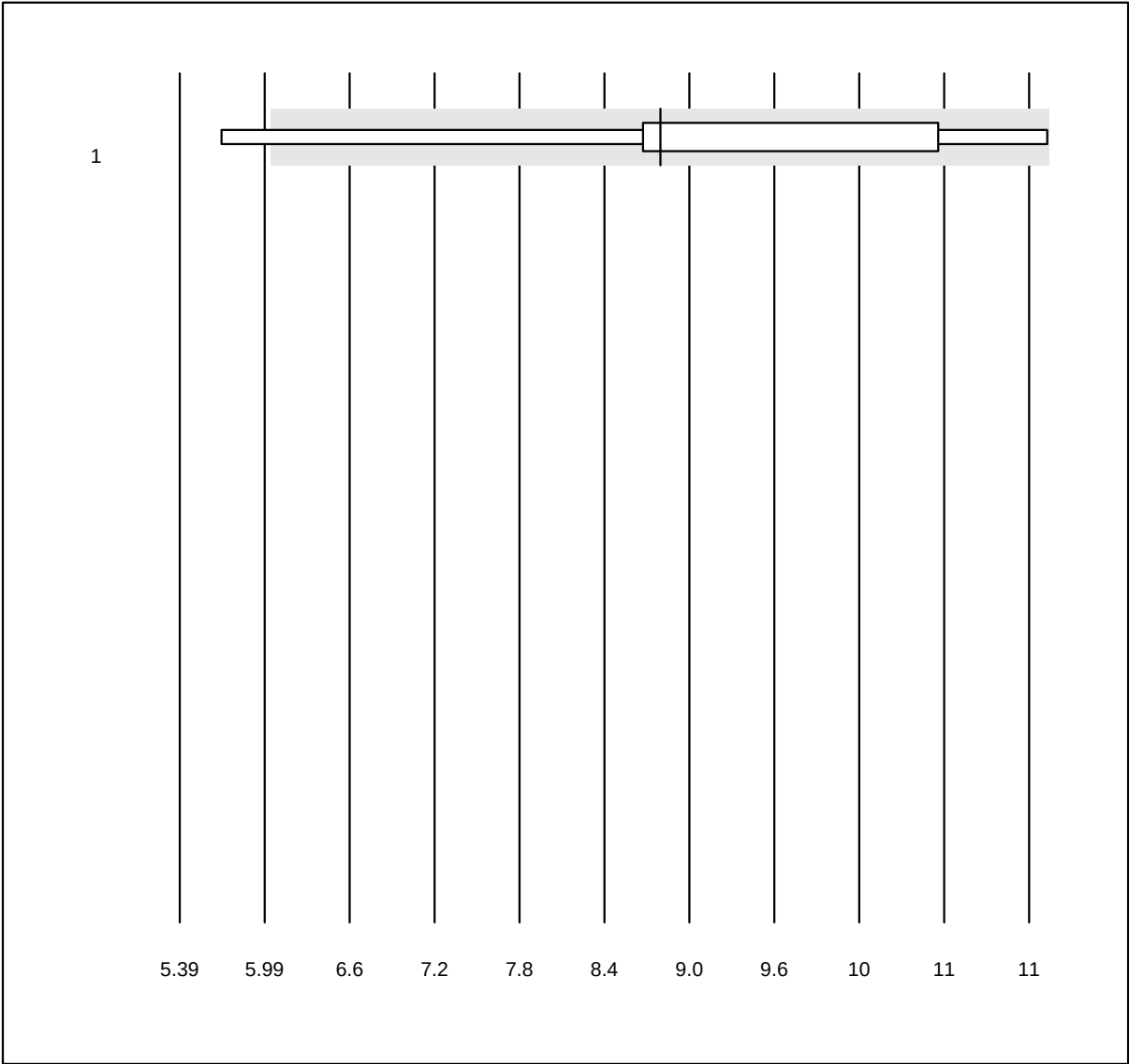


MQ Toleranz: 30%

IgE rx1qn (kU/L)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 7     | 85.7 | 14.3      | 0.0       | 7.31         | 20.9 | e*   |

IgE rx2 qn



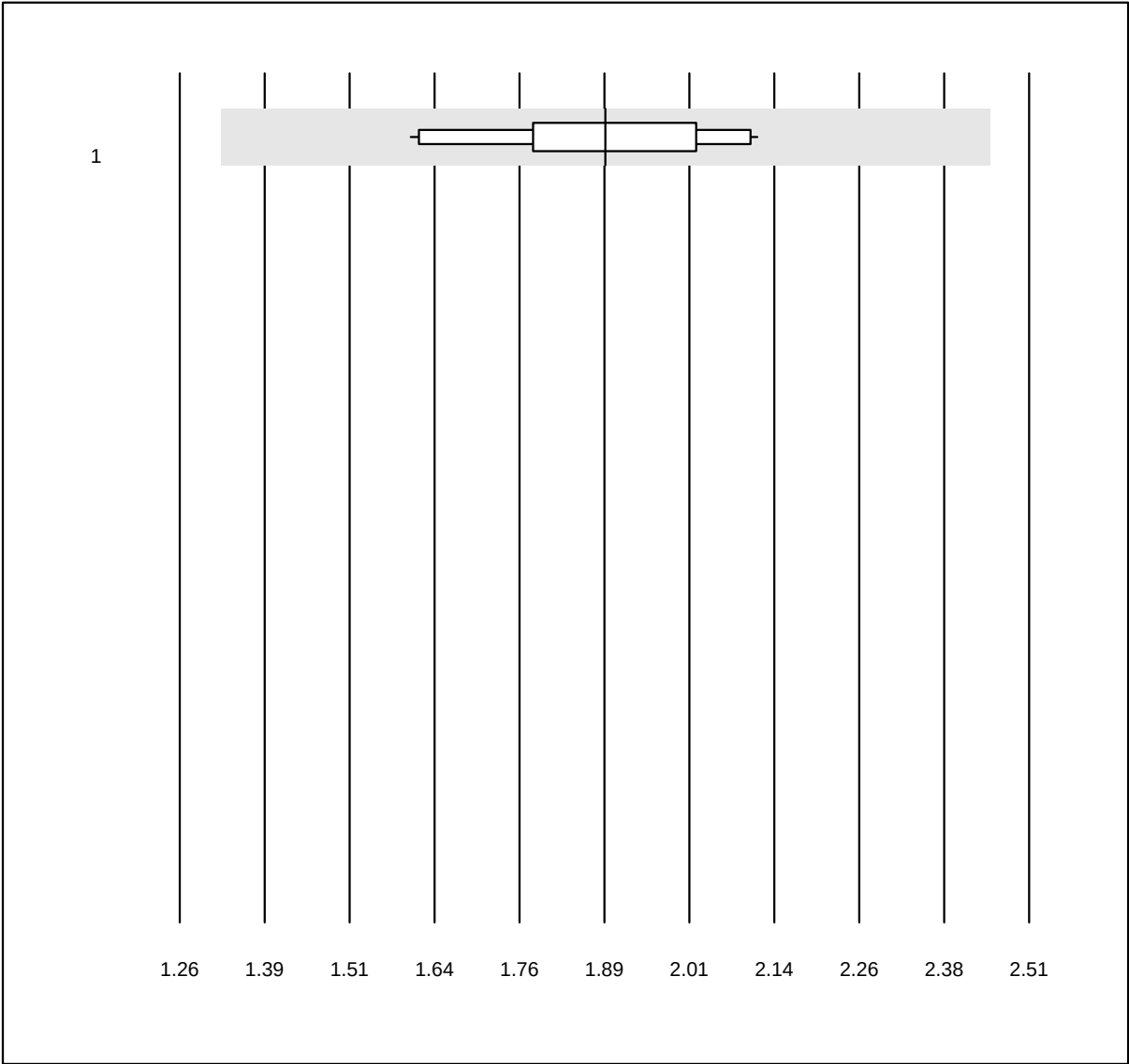
MQ Toleranz: 30%

IgE rx2 qn (kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 7     | 100.0 | 0.0       | 0.0       | 8.56         | 17.5 | a*   |



IgE D. pteronyssinus qn

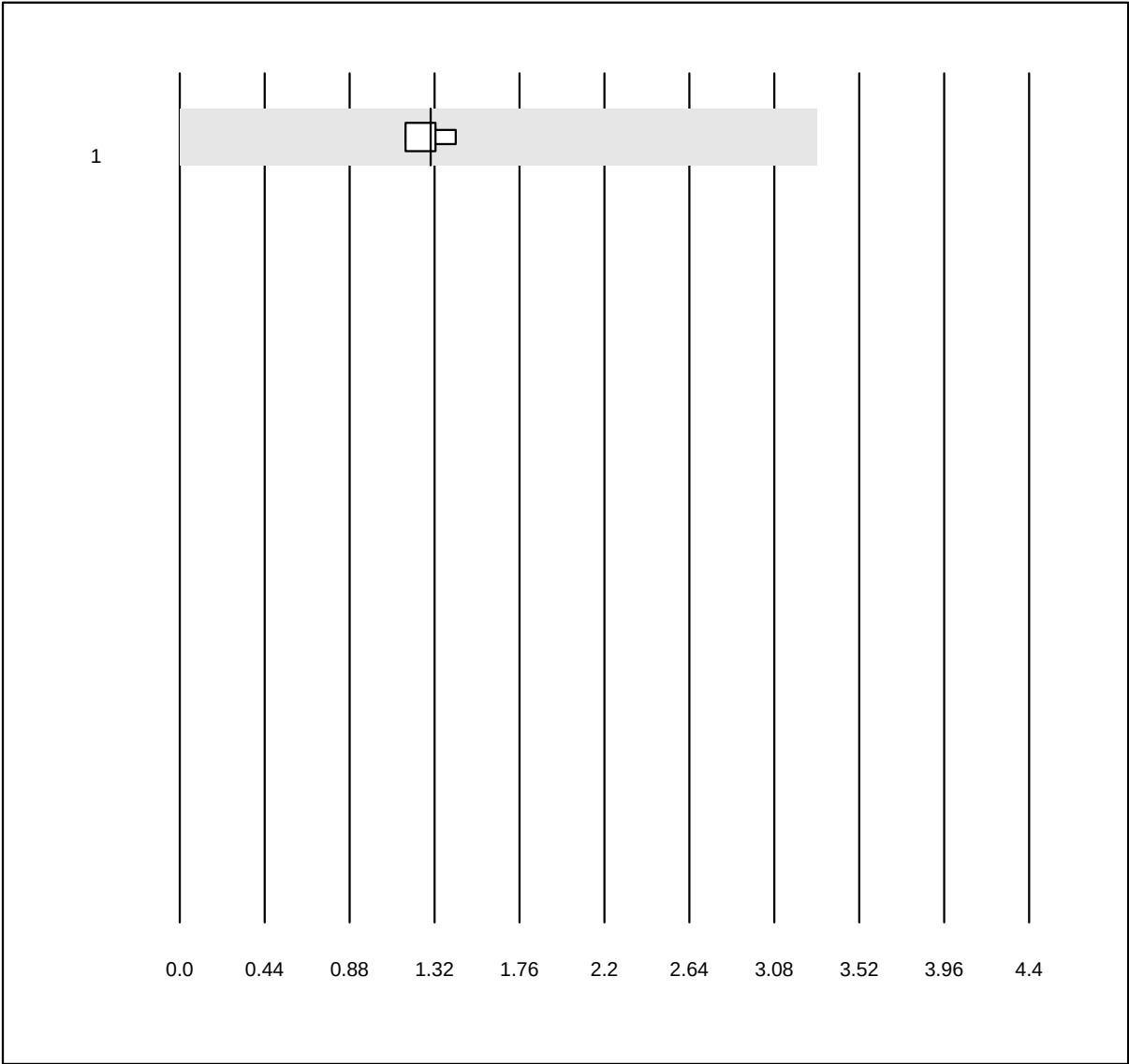


QUALAB Toleranz: 30%

IgE D. pteronyssinus qn  
(kU/L)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 11    | 100.0 | 0.0       | 0.0       | 1.89         | 8.6  | e    |

CRP HS



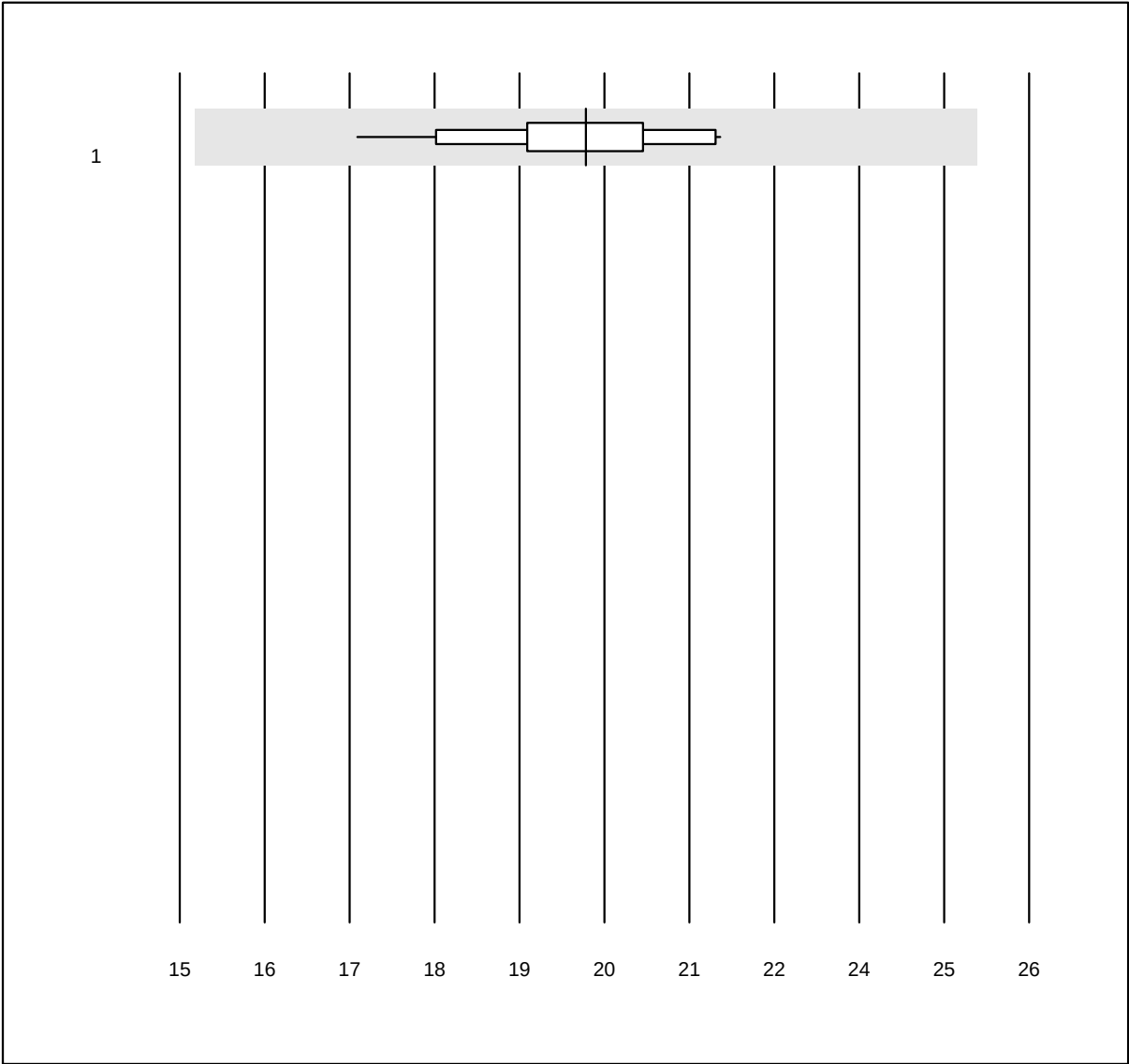
QUALAB Toleranz: 21%  
( < 10.0: +/- 2.0 mg/l)

CRP HS (mg/l)

| No. | Methode       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1   | Turbidimetrie | 7     | 85.7 | 0.0       | 14.3      | 1.30         | 7.0  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Lipoprotein (a)



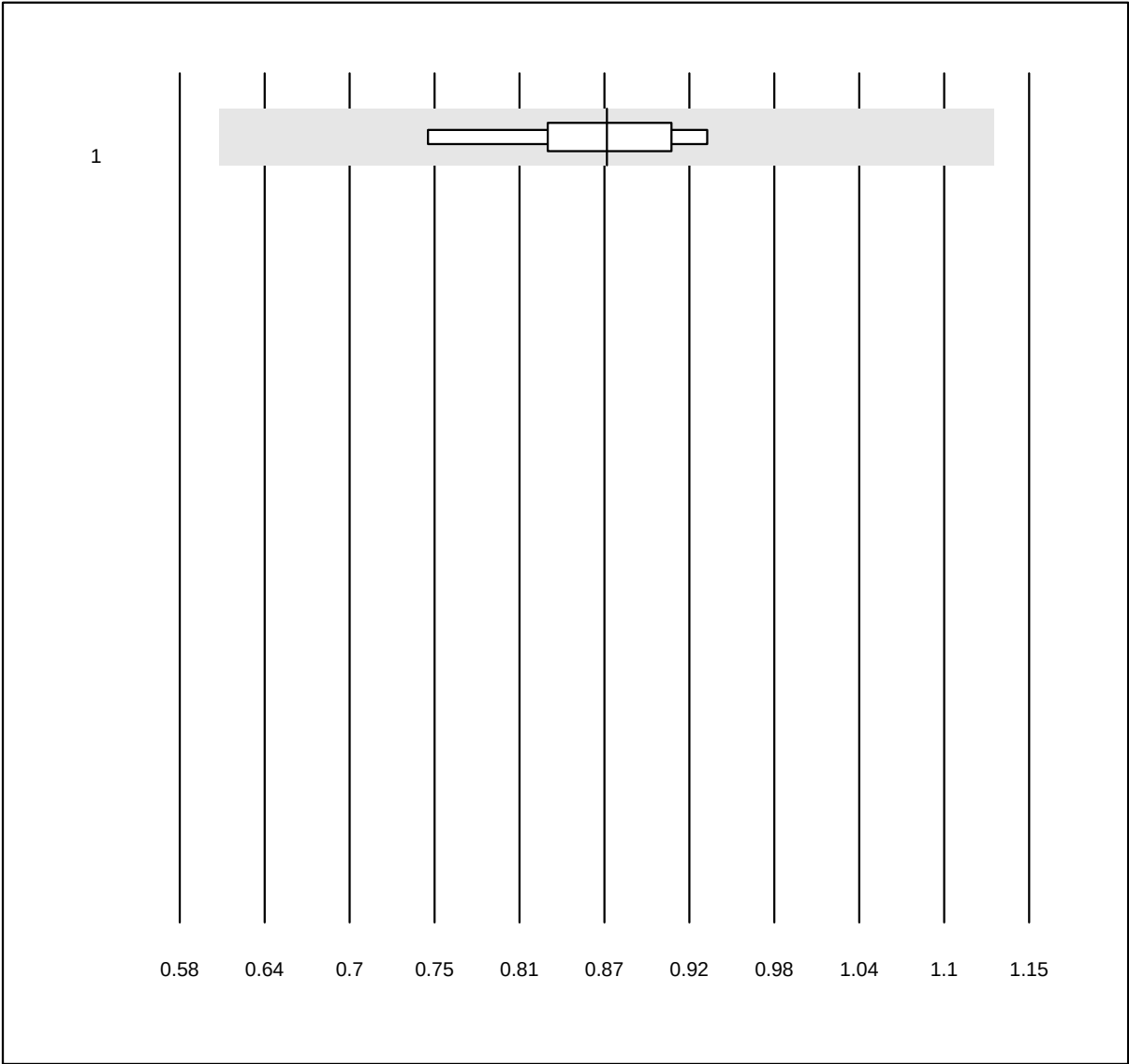
MQ Toleranz: 25%

Lipoprotein (a) (nmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 15    | 100.0 | 0.0       | 0.0       | 20           | 5.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Apolipoprotein A1

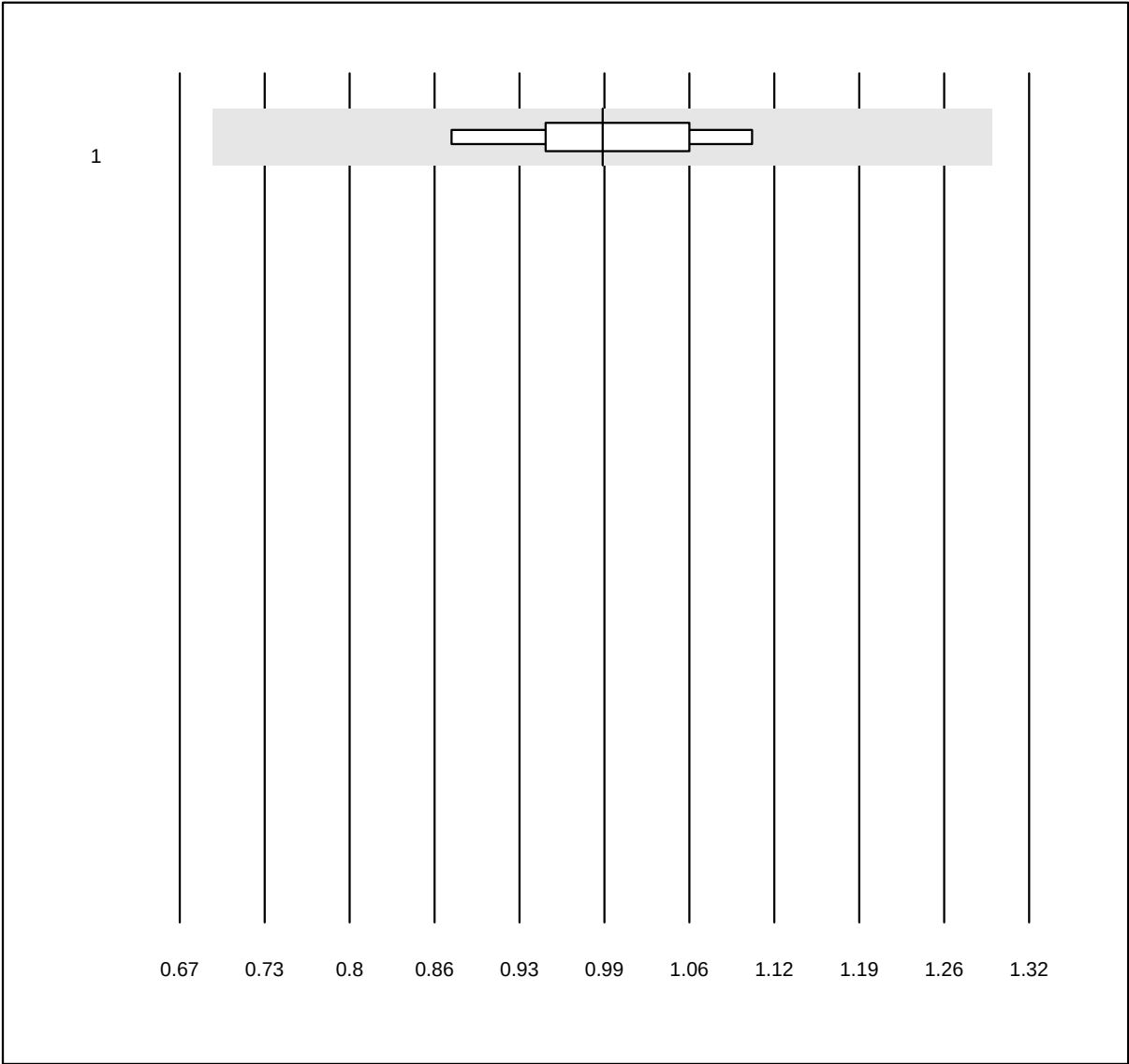


MQ Toleranz: 30%

Apolipoprotein A1 (g/l)

| No. Methode |         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alinity | 7     | 100.0 | 0.0       | 0.0       | 0.87         | 6.5  | e    |

Apolipoprotein B

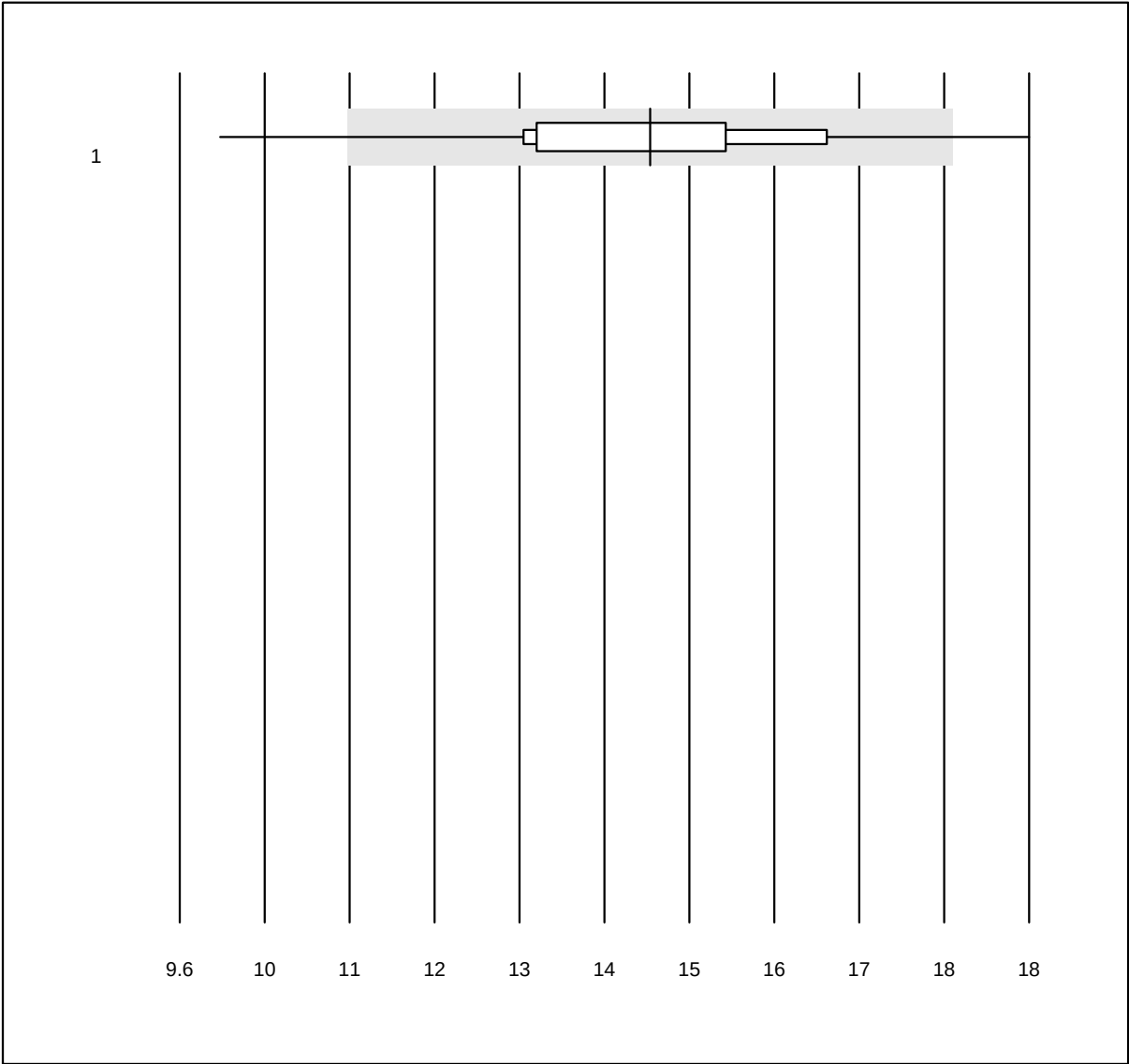


MQ Toleranz: 30%

Apolipoprotein B (g/l)

| No. Methode |         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alinity | 7     | 100.0 | 0.0       | 0.0       | 1.0          | 7.4  | e    |

CRP

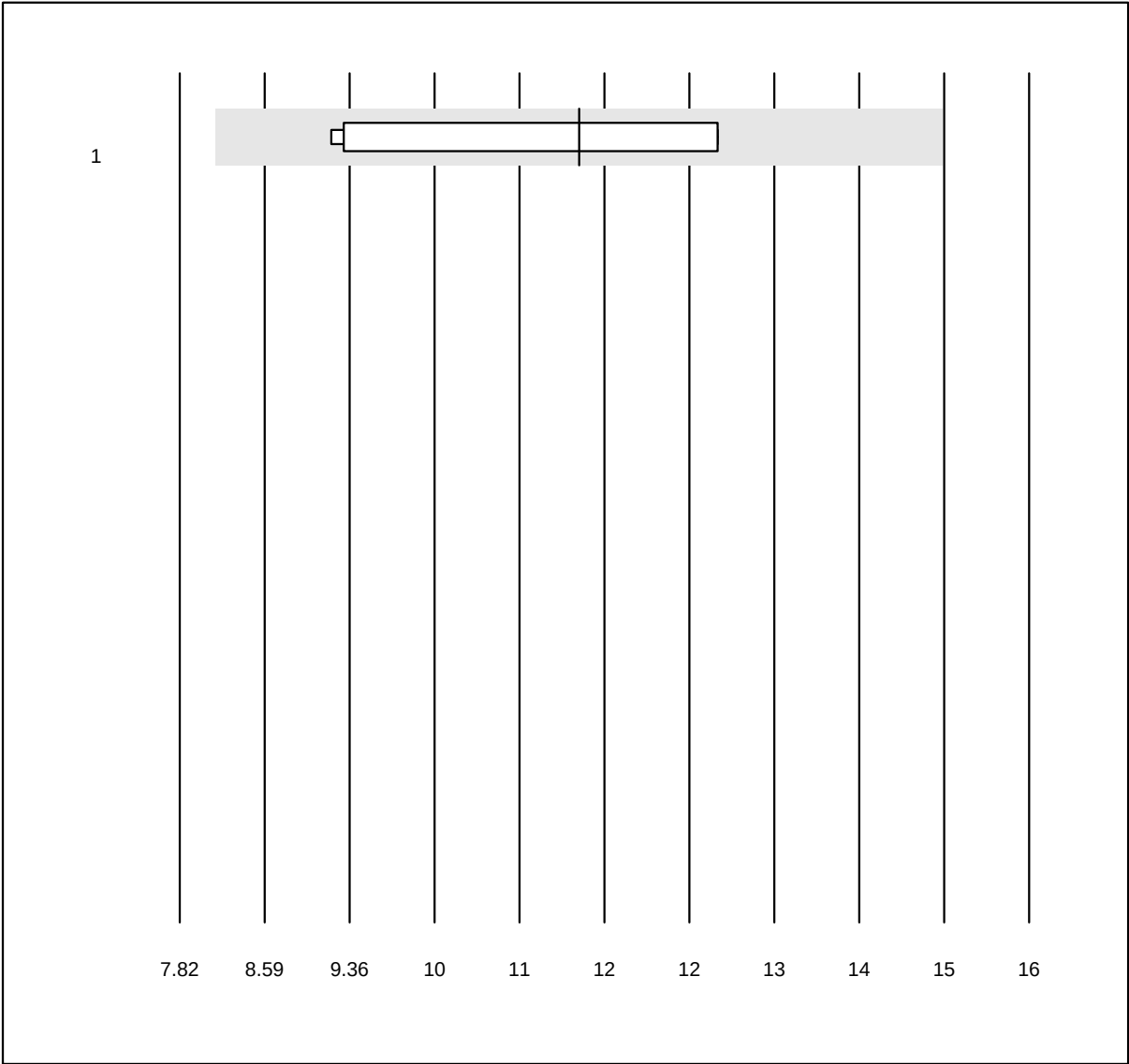


QUALAB Toleranz: 21%

CRP (mg/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | AFIAS | 238   | 94.1 | 3.8       | 2.1       | 14.3         | 9.3  | e    |

Anti deam. Gliadin IgG



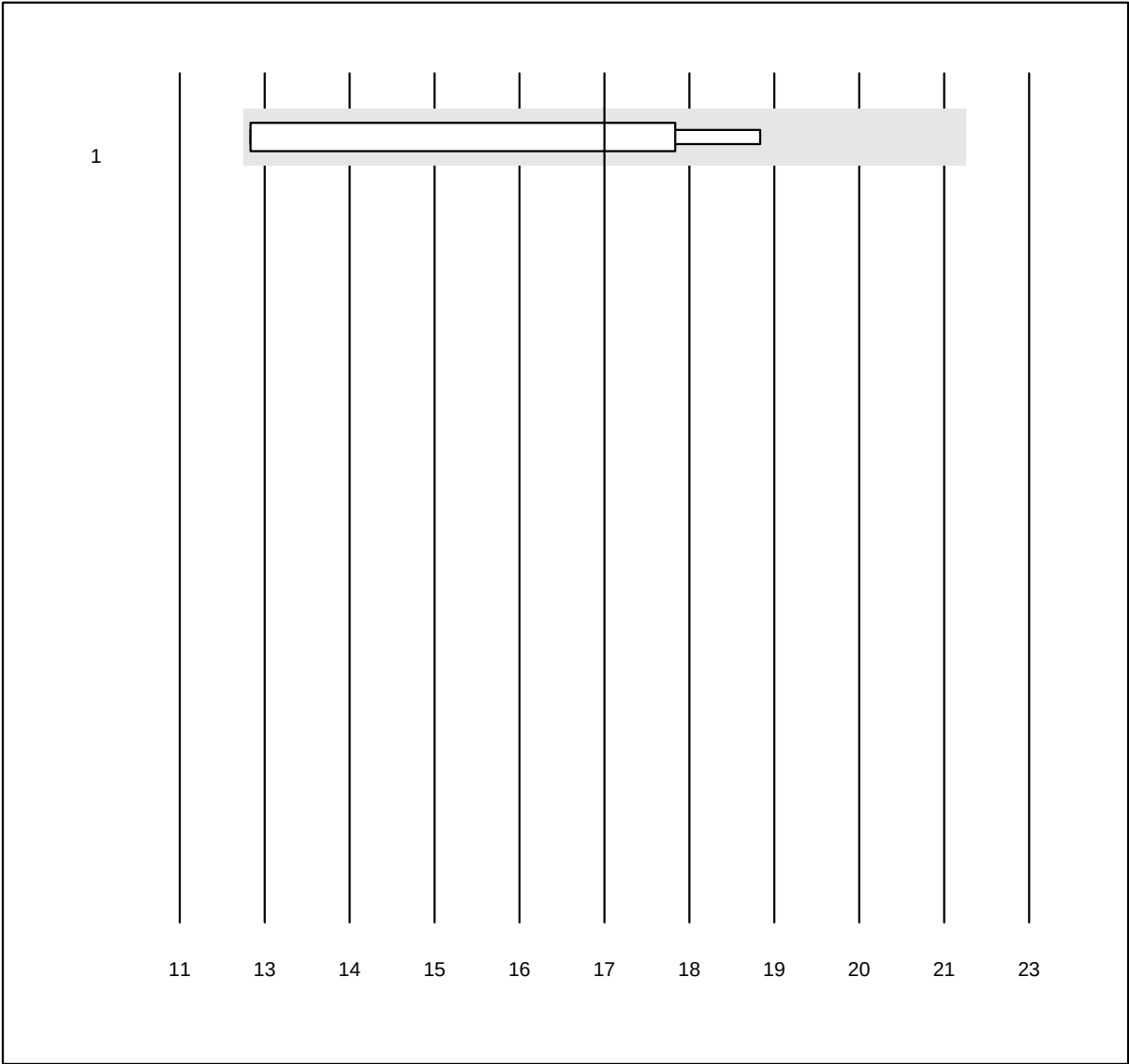
MQ Toleranz: 30%

Anti deam. Gliadin IgG  
(U/ml)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Phadia | 7     | 100.0 | 0.0       | 0.0       | 11.67        | 13.6 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Anti deam. Gliadin IgA



MQ Toleranz: 30%

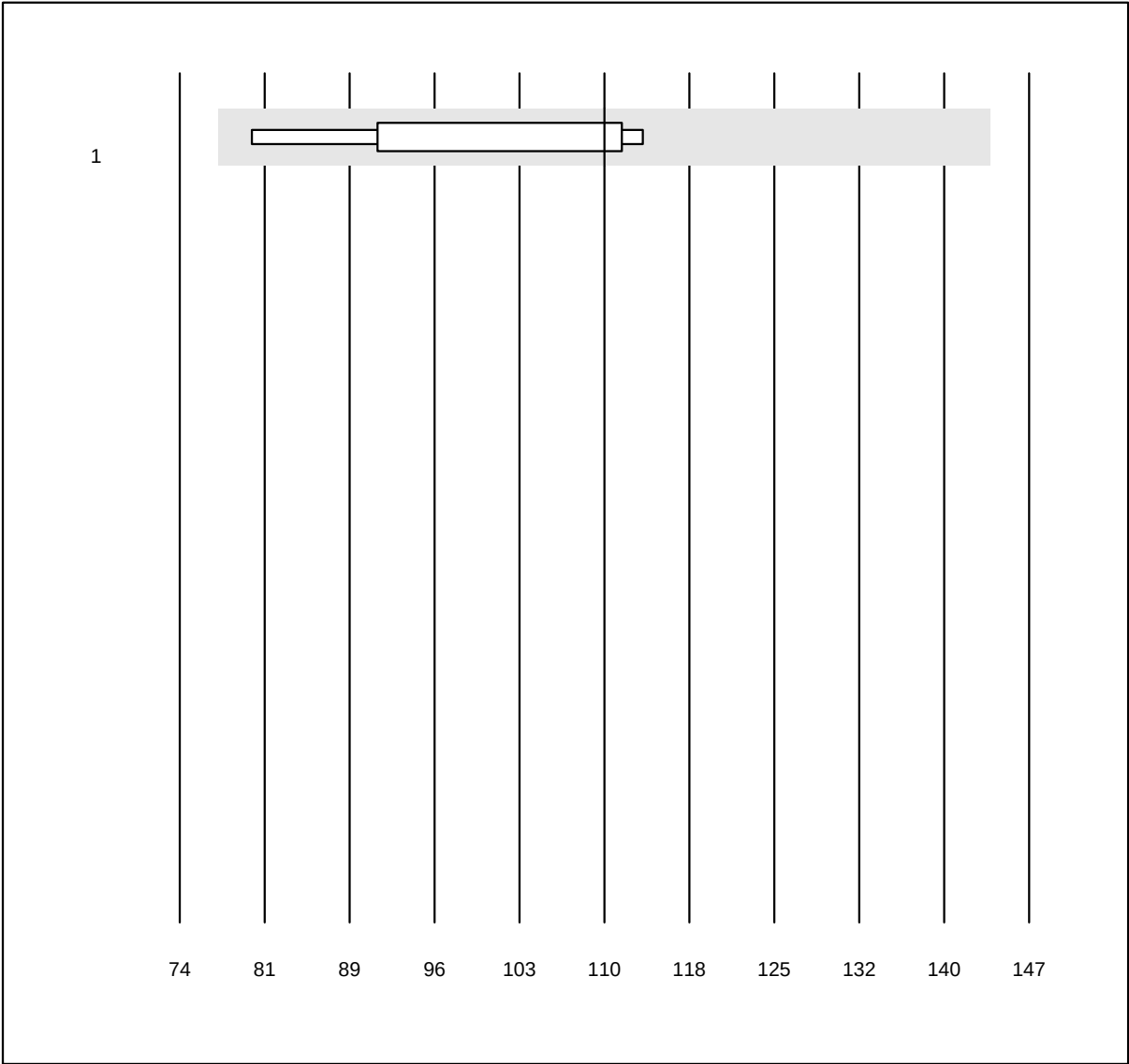
Anti deam. Gliadin IgA  
(U/ml)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Phadia | 7     | 100.0 | 0.0       | 0.0       | 17.00        | 18.0 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



Anti tTG IgG

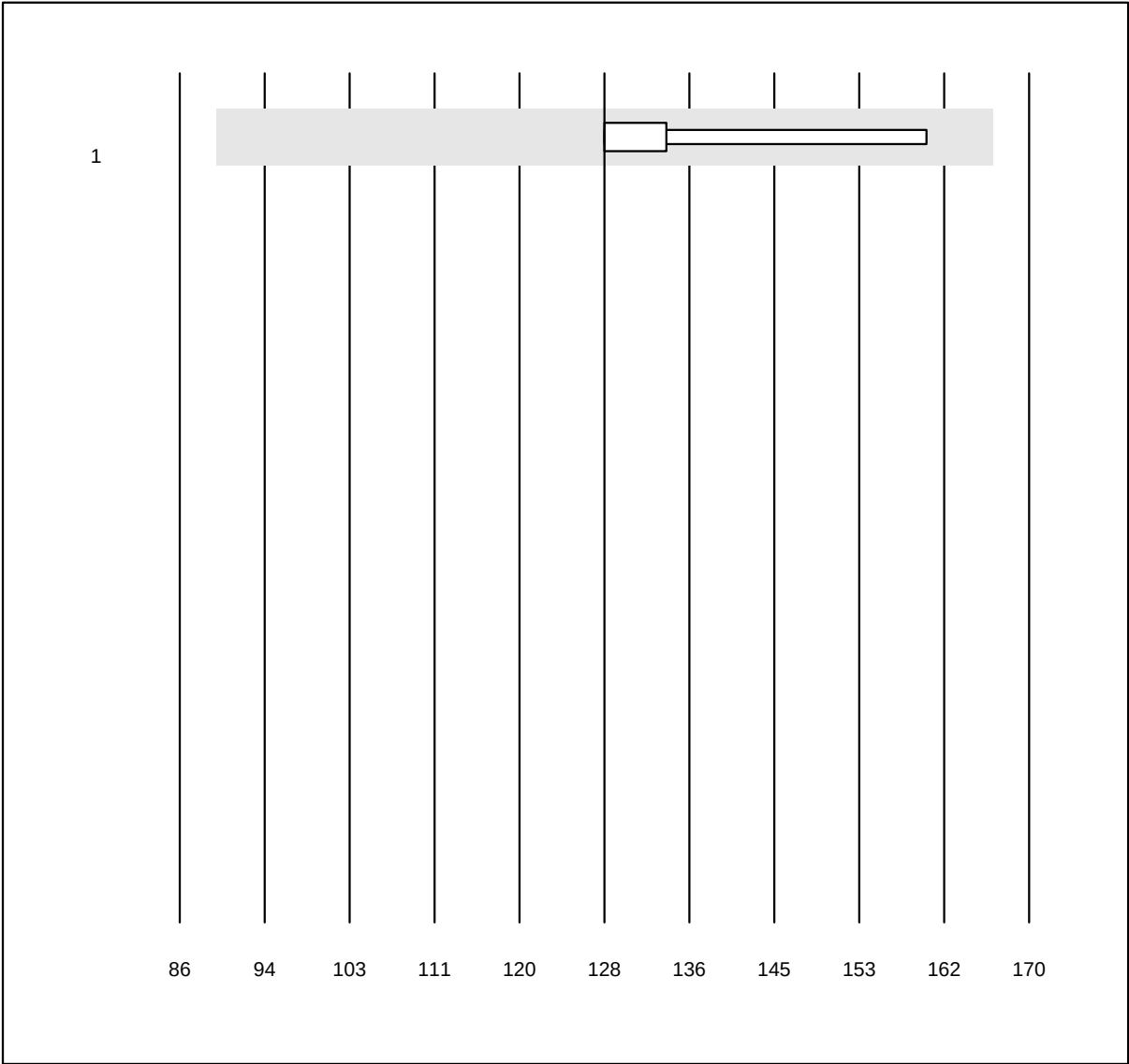


MQ Toleranz: 30%

Anti tTG IgG (U/ml)

| No. Methode |                 | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | andere Methoden | 4     | 75.0 | 0.0       | 25.0      | 110.50       | 10.9 | e*   |

Anti tTG IgA

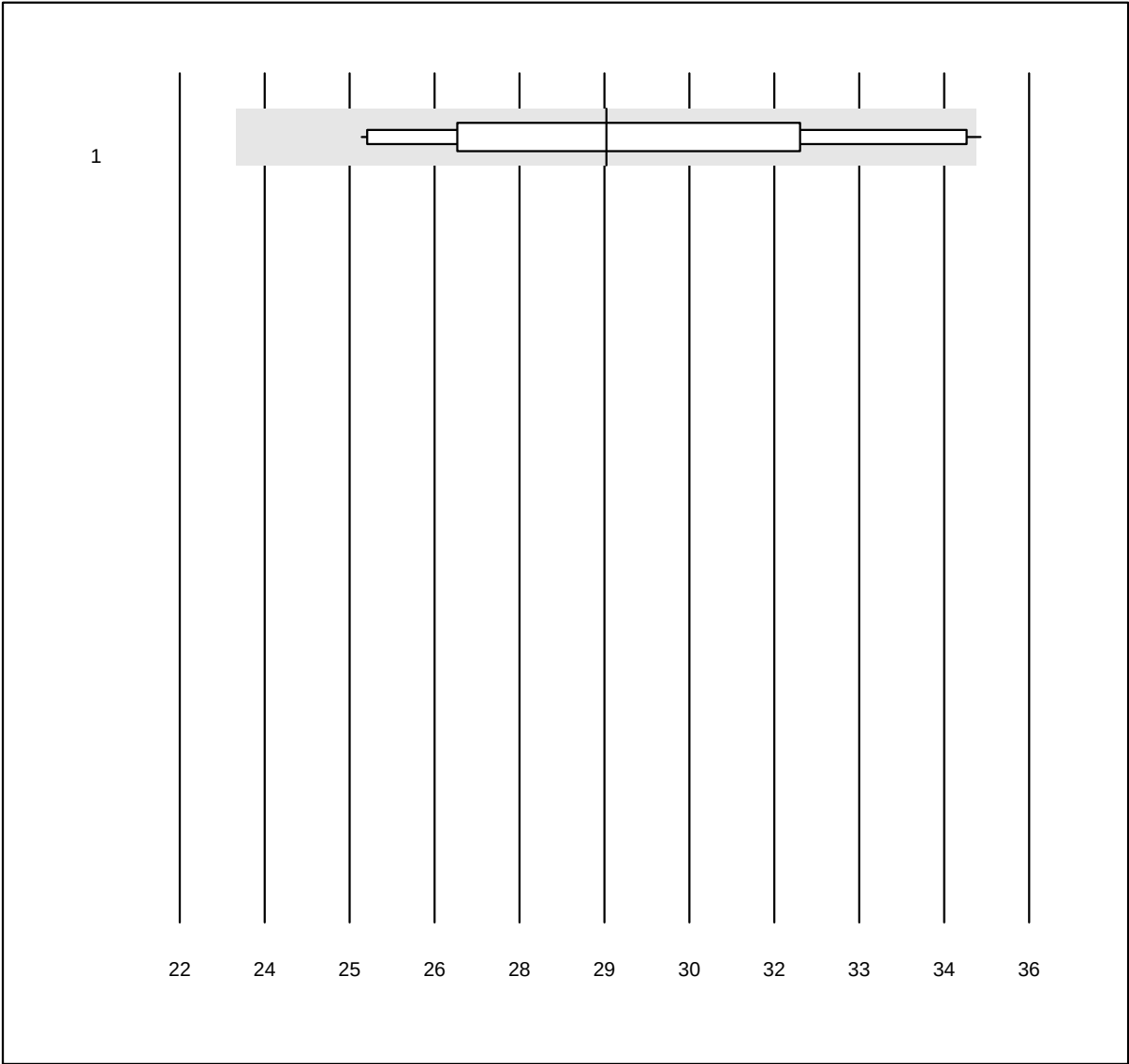


MQ Toleranz: 30%

Anti tTG IgA (U/ml)

| No. Methode                                                                                                           |                 | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------|------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | andere Methoden | 8     | 75.0 | 0.0       | 25.0      | 128.00       | 7.6  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                 |       |      |           |           |              |      |      |

CRP Lumira

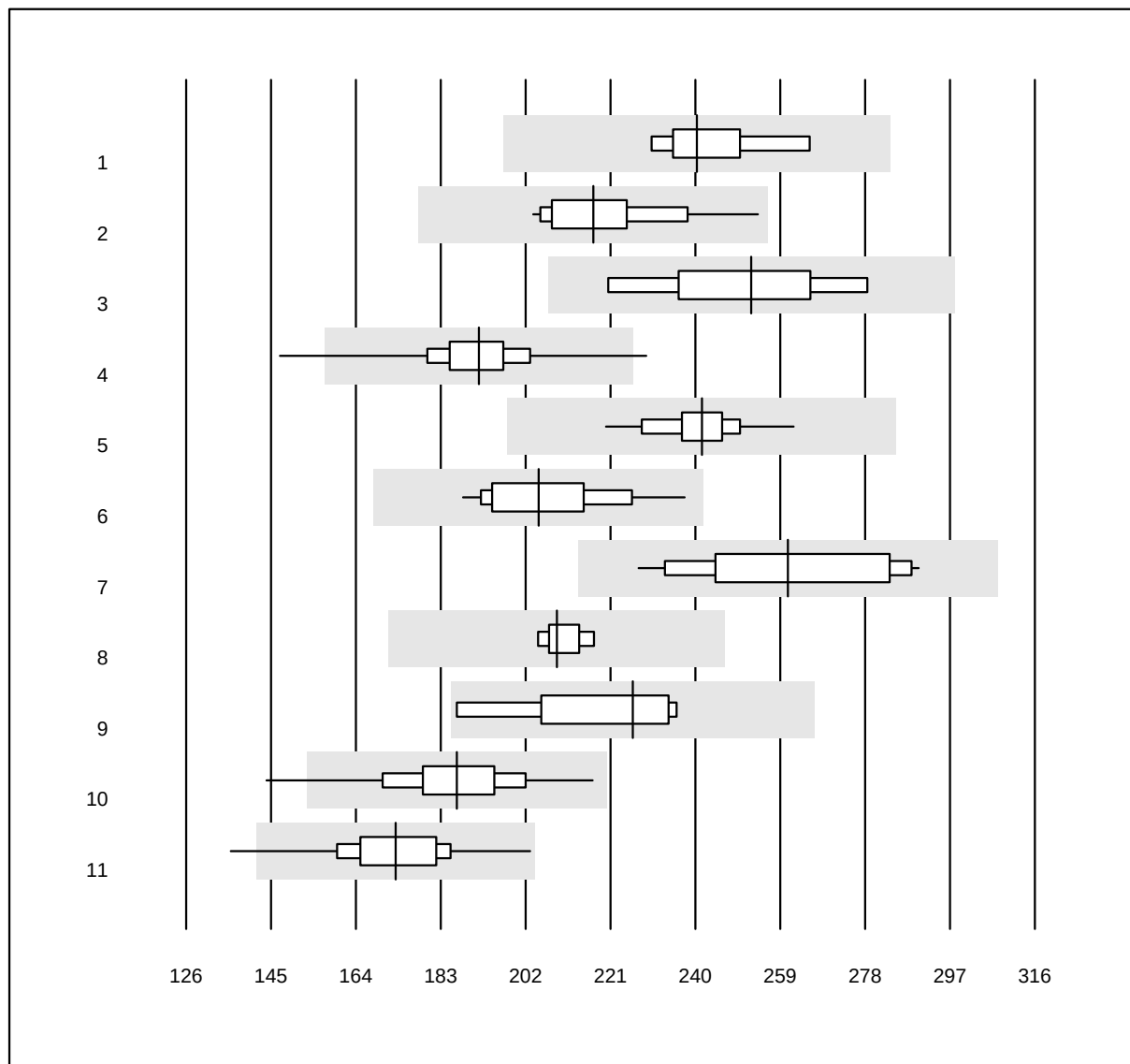


QUALAB Toleranz: 21%

CRP Lumira (mg/l)

| No. Methode |           | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Lumira Dx | 10    | 90.0 | 10.0      | 0.0       | 29.0         | 10.9 | e*   |

## Alkaline phosphatase 1



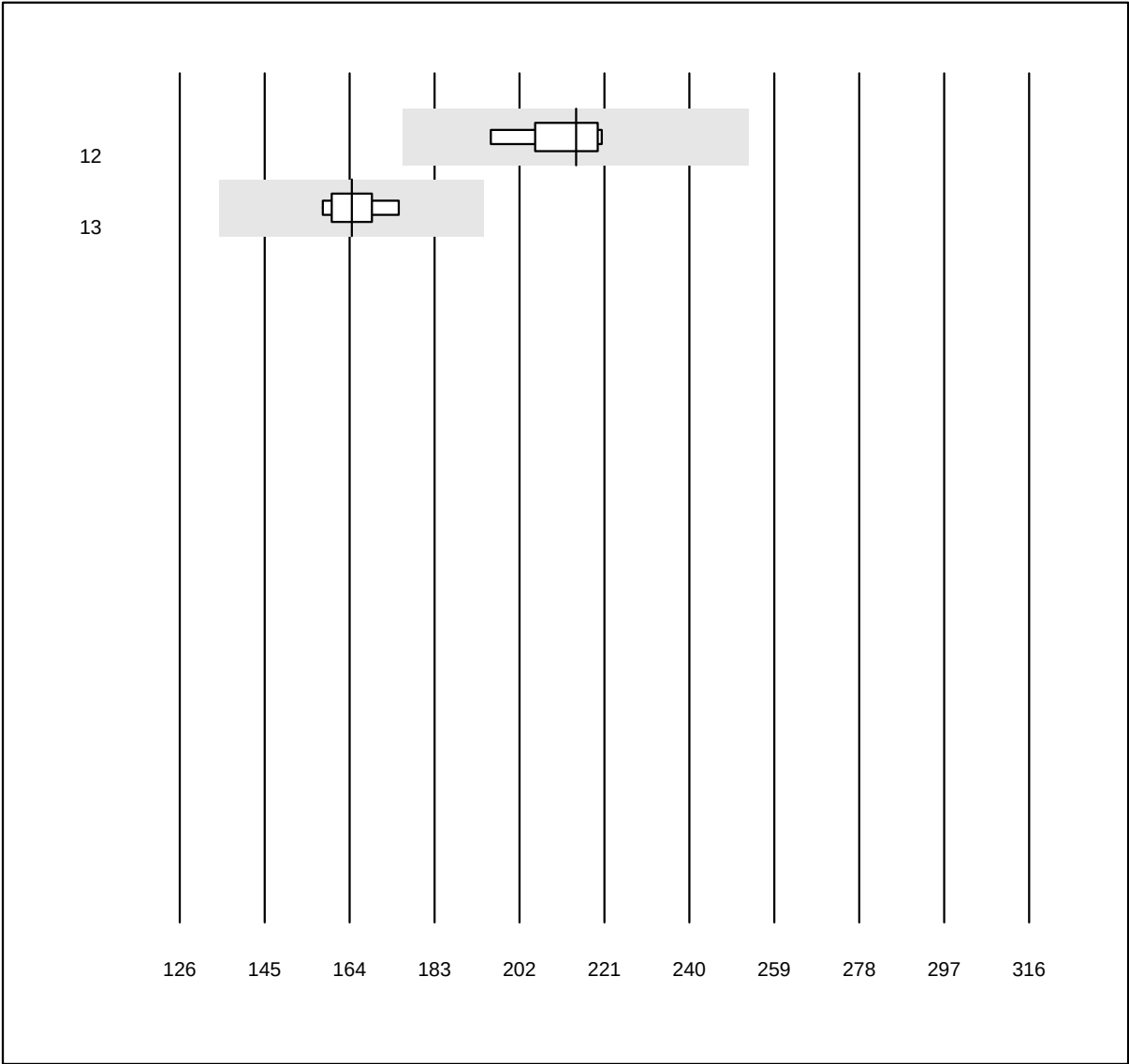
QUALAB Toleranz: 18%

Alkaline phosphatase (U/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 240          | 4.7  | e    |
| 2 Autolyser           | 22    | 100.0 | 0.0       | 0.0       | 217          | 5.9  | e    |
| 3 Beckman             | 4     | 100.0 | 0.0       | 0.0       | 253          | 6.3  | e*   |
| 4 Fuji Dri-Chem       | 1067  | 98.9  | 0.4       | 0.7       | 192          | 4.9  | e    |
| 5 Piccolo             | 46    | 100.0 | 0.0       | 0.0       | 241          | 3.5  | e    |
| 6 Roche               | 40    | 100.0 | 0.0       | 0.0       | 205          | 6.3  | e    |
| 7 Selectra Pro        | 13    | 100.0 | 0.0       | 0.0       | 261          | 8.0  | e*   |
| 8 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 209          | 2.0  | e    |
| 9 Skyla               | 5     | 100.0 | 0.0       | 0.0       | 226          | 7.5  | e*   |
| 10 Spotchem D-Concept | 560   | 98.9  | 0.5       | 0.5       | 187          | 6.8  | e    |
| 11 Spotchem SP-4430   | 78    | 96.2  | 2.6       | 1.3       | 173          | 6.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Alkaline phosphatase 2

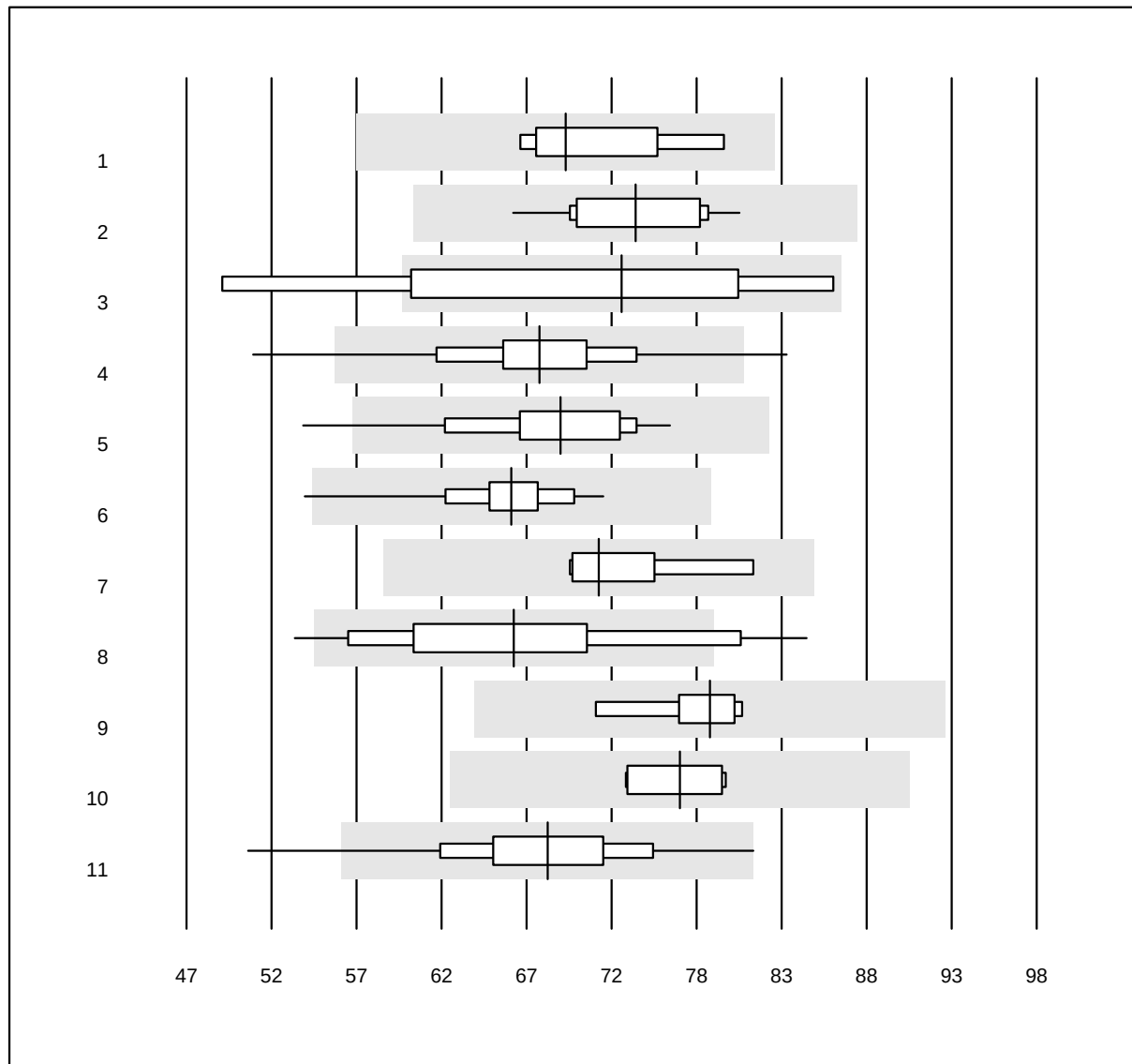


QUALAB Toleranz: 18%

Alkaline phosphatase (U/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Vitros   | 5     | 100.0 | 0.0       | 0.0       | 215          | 3.8  | e    |
| 13 Seamaty  | 12    | 100.0 | 0.0       | 0.0       | 165          | 3.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

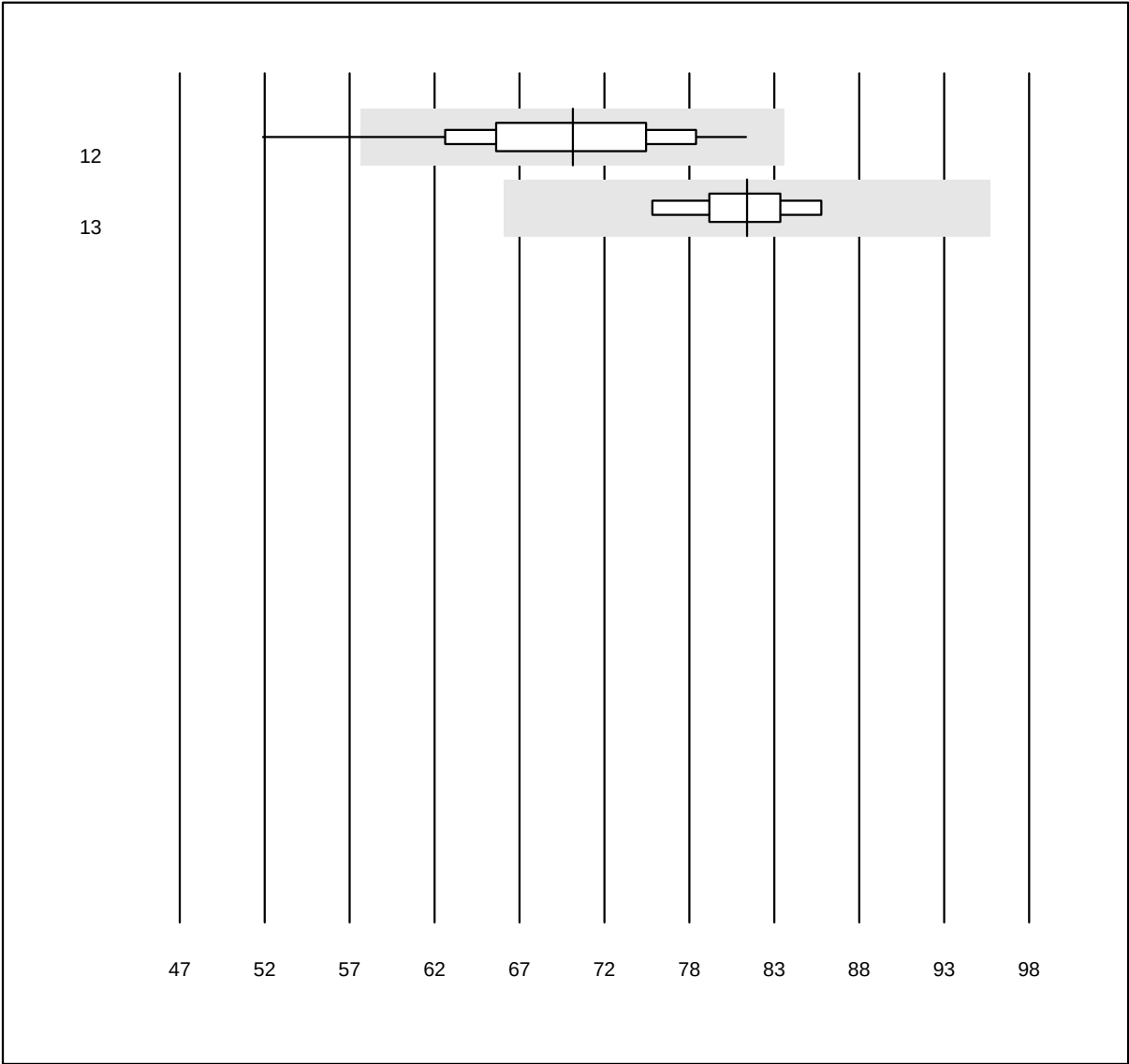
**Bilirubin 1**

QUALAB Toleranz: 18%

Bilirubin (µmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 6     | 100.0 | 0.0       | 0.0       | 69.8         | 6.0  | e*   |
| 2 Autolyser           | 19    | 100.0 | 0.0       | 0.0       | 73.9         | 5.4  | e    |
| 3 Beckman             | 4     | 75.0  | 25.0      | 0.0       | 73.1         | 14.9 | e*   |
| 4 Fuji Dri-Chem       | 877   | 96.6  | 1.7       | 1.7       | 68.2         | 6.8  | e    |
| 5 Piccolo             | 55    | 96.4  | 1.8       | 1.8       | 69.4         | 7.0  | e    |
| 6 Roche               | 40    | 97.5  | 2.5       | 0.0       | 66.5         | 4.8  | e    |
| 7 Seamaty             | 10    | 100.0 | 0.0       | 0.0       | 71.7         | 5.8  | e    |
| 8 Selectra Pro        | 15    | 80.0  | 13.3      | 6.7       | 66.6         | 11.5 | e*   |
| 9 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 78.4         | 3.5  | e    |
| 10 Skyla              | 5     | 100.0 | 0.0       | 0.0       | 76.6         | 3.8  | e    |
| 11 Spotchem D-Concept | 442   | 97.7  | 1.8       | 0.5       | 68.7         | 7.4  | e    |

Bilirubin 2

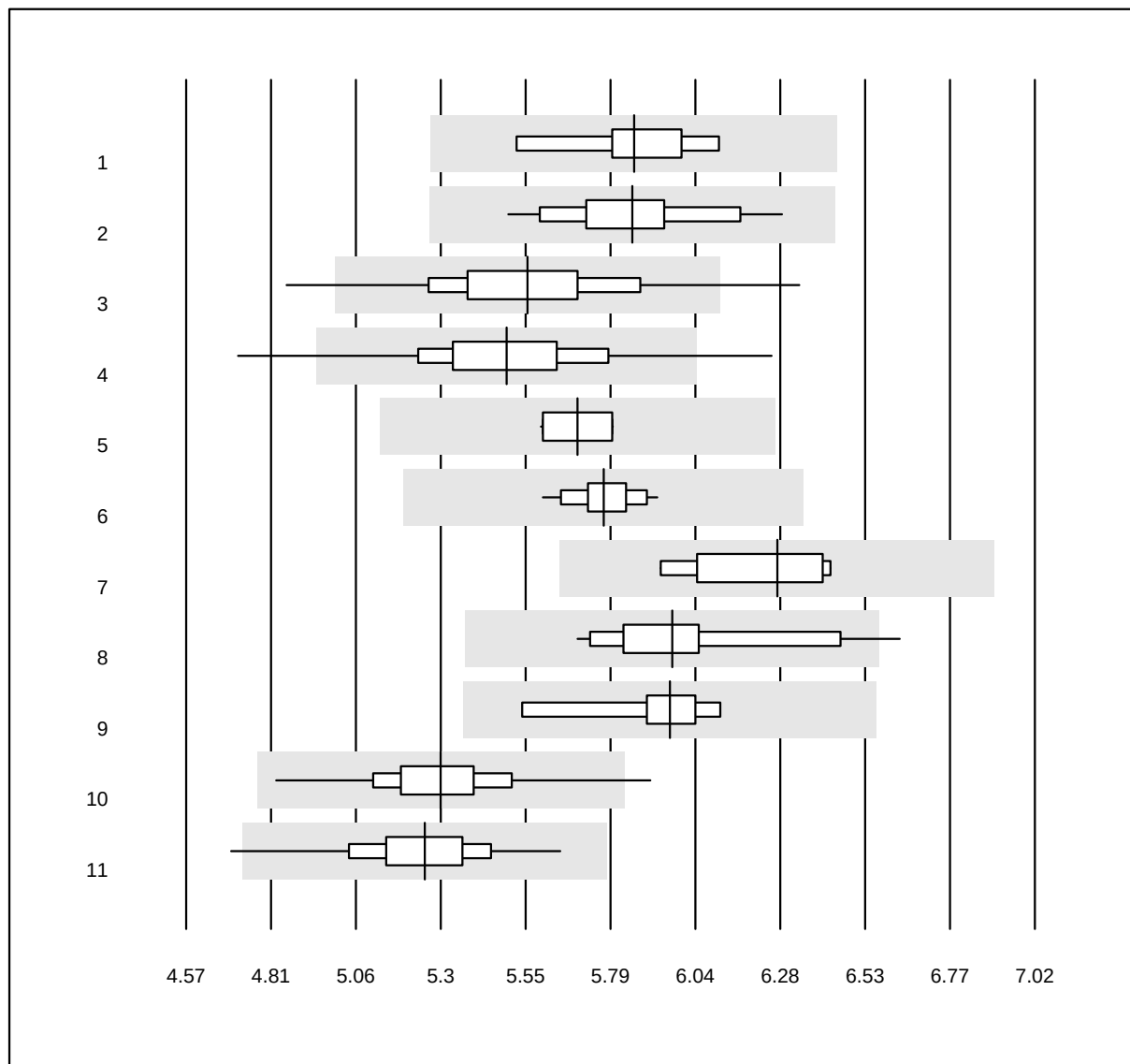


QUALAB Toleranz: 18%

Bilirubin (µmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem SP-4430 | 65    | 93.8  | 3.1       | 3.1       | 70.6         | 8.5  | e    |
| 13 Vitros           | 5     | 100.0 | 0.0       | 0.0       | 81.1         | 3.3  | e    |

## Cholesterol total 1



QUALAB Toleranz: 10%

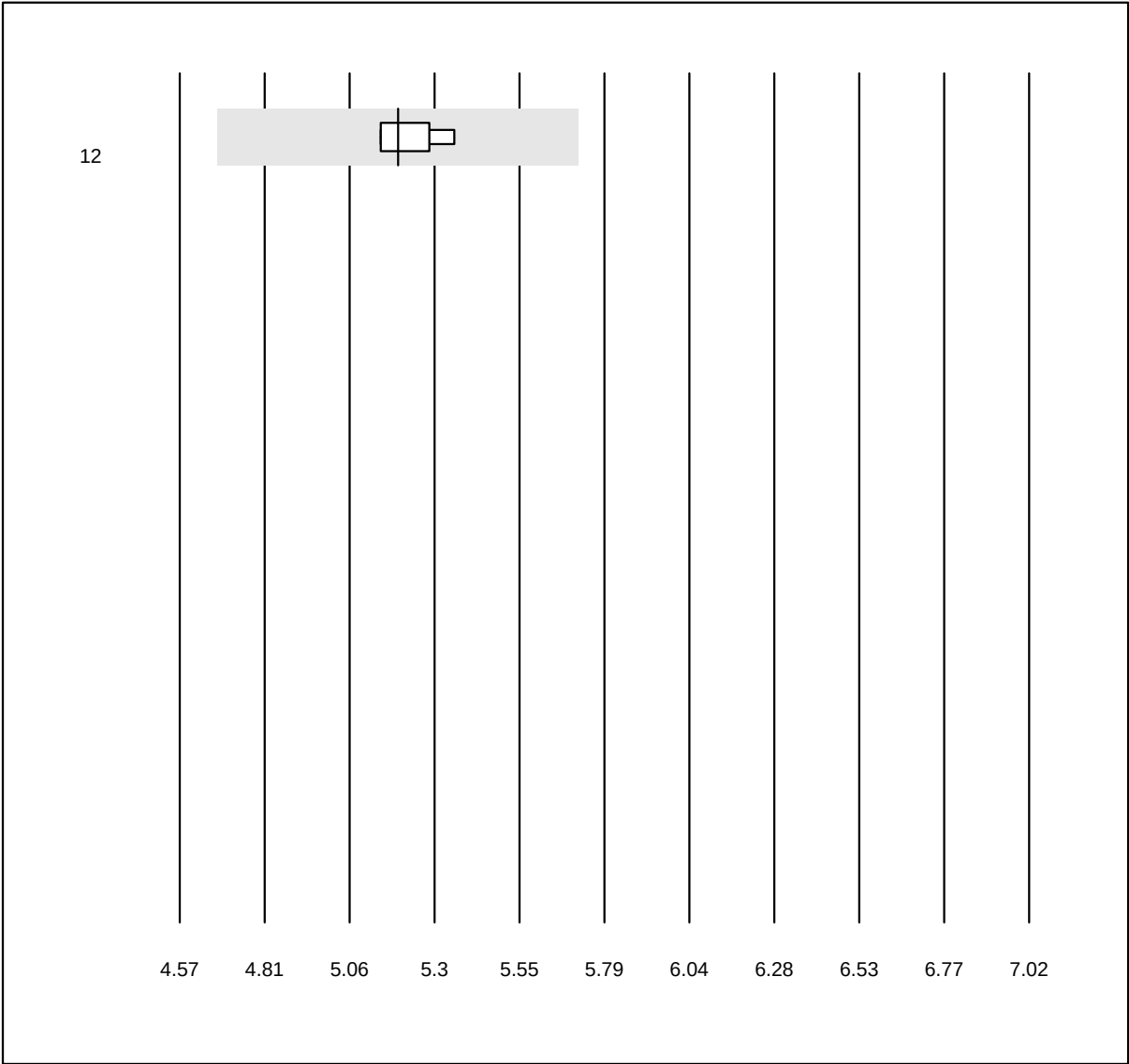
Cholesterol total (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 5.86         | 2.8  | e    |
| 2 Autolyser           | 22    | 100.0 | 0.0       | 0.0       | 5.86         | 3.2  | e    |
| 3 Cholestech LDX      | 235   | 93.2  | 3.8       | 3.0       | 5.56         | 4.6  | e    |
| 4 Fuji Dri-Chem       | 1017  | 96.2  | 2.2       | 1.7       | 5.50         | 4.1  | e    |
| 5 Piccolo             | 21    | 100.0 | 0.0       | 0.0       | 5.70         | 1.4  | e    |
| 6 Roche               | 35    | 100.0 | 0.0       | 0.0       | 5.78         | 1.5  | e    |
| 7 Seamaty             | 10    | 100.0 | 0.0       | 0.0       | 6.28         | 3.3  | e    |
| 8 Selectra Pro        | 12    | 91.7  | 8.3       | 0.0       | 5.97         | 3.9  | e    |
| 9 Siemens             | 7     | 100.0 | 0.0       | 0.0       | 5.97         | 2.8  | e    |
| 10 Spotchem D-Concept | 481   | 97.1  | 0.4       | 2.5       | 5.30         | 3.1  | e    |
| 11 Spotchem SP-4430   | 76    | 98.7  | 1.3       | 0.0       | 5.26         | 3.2  | e    |

5 additional results were submitted but not published because the method groups were too small. (&lt; results per group)



Cholesterol total 2

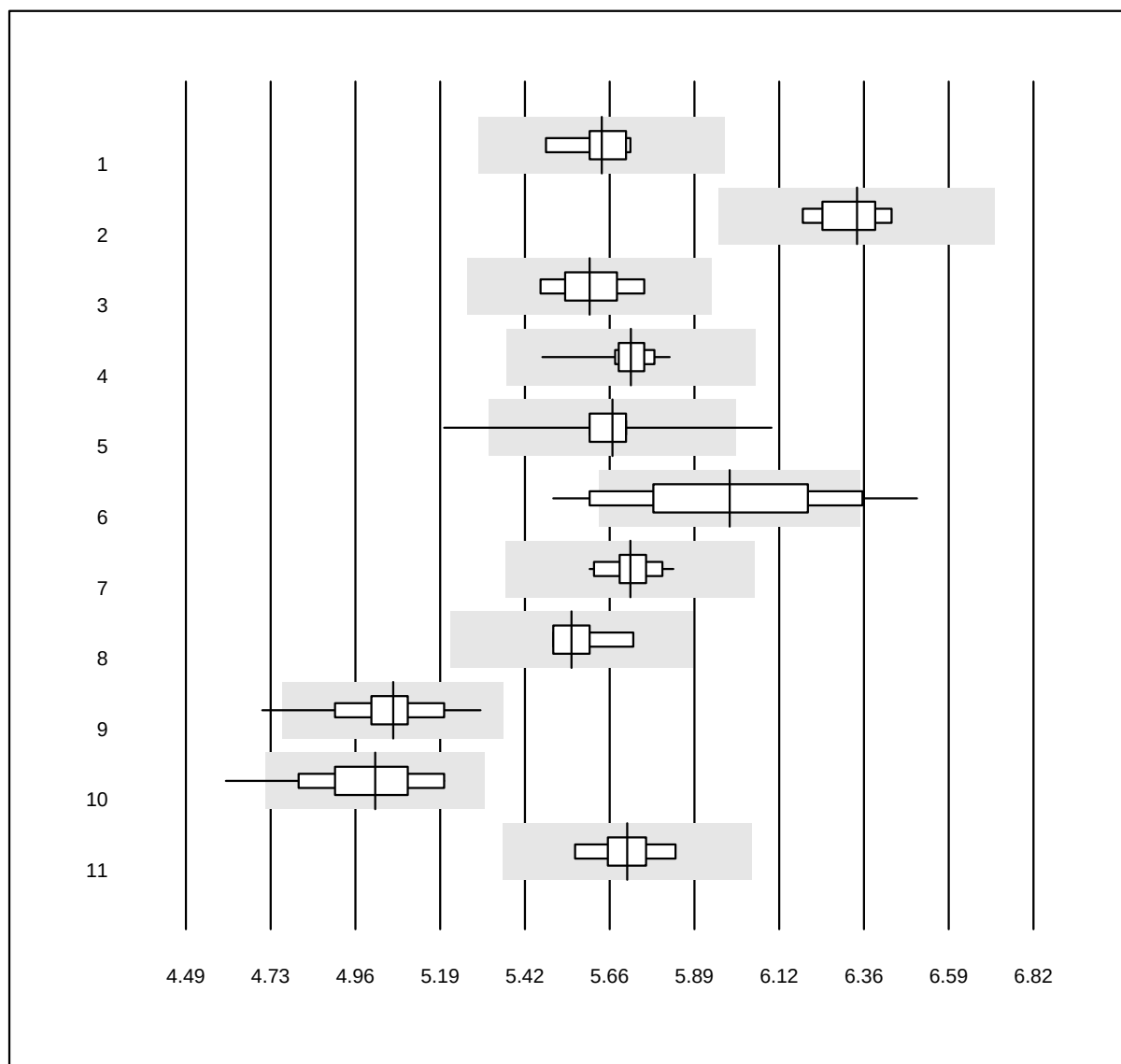


QUALAB Toleranz: 10%

Cholesterol total (mmol/l)

| No. Methode                                                                                                           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 andere Methoden                                                                                                    | 5     | 100.0 | 0.0       | 0.0       | 5.20         | 1.5  | e    |
| 5 additional results were submitted but not published because the method groups were too small. (< results per group) |       |       |           |           |              |      |      |

## Potassium 1



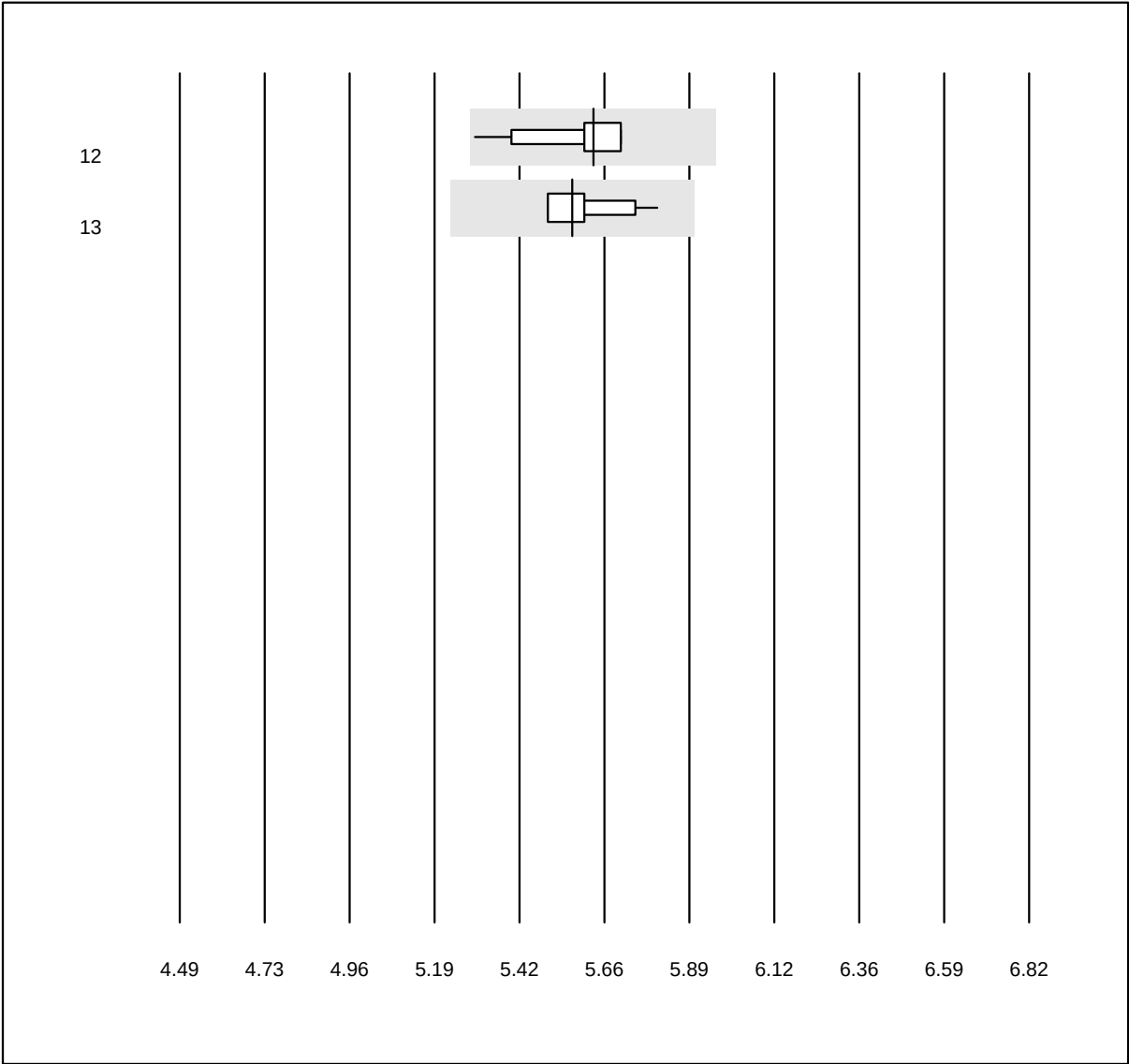
QUALAB Toleranz: 6%

Potassium (mmol/l)

| No. Methode            | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott               | 7     | 100.0 | 0.0       | 0.0       | 5.63         | 1.4  | e    |
| 2 Autolyser            | 6     | 83.3  | 0.0       | 16.7      | 6.33         | 1.2  | e    |
| 3 Beckman              | 4     | 100.0 | 0.0       | 0.0       | 5.60         | 1.4  | e    |
| 4 Exias                | 48    | 93.8  | 0.0       | 6.2       | 5.71         | 1.0  | e    |
| 5 Fuji Dri-Chem        | 1145  | 98.3  | 0.7       | 1.0       | 5.66         | 1.3  | e    |
| 6 Piccolo              | 34    | 79.4  | 20.6      | 0.0       | 5.99         | 4.3  | e*   |
| 7 Roche                | 40    | 100.0 | 0.0       | 0.0       | 5.71         | 1.1  | e    |
| 8 Siemens              | 7     | 100.0 | 0.0       | 0.0       | 5.55         | 1.3  | e    |
| 9 Spotchem D-Concept   | 544   | 97.4  | 0.7       | 1.8       | 5.06         | 2.1  | e    |
| 10 Spotchem EL-SE 1520 | 70    | 91.4  | 4.3       | 4.3       | 5.01         | 2.6  | e    |
| 11 Vitros              | 5     | 100.0 | 0.0       | 0.0       | 5.70         | 1.2  | e    |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Potassium 2



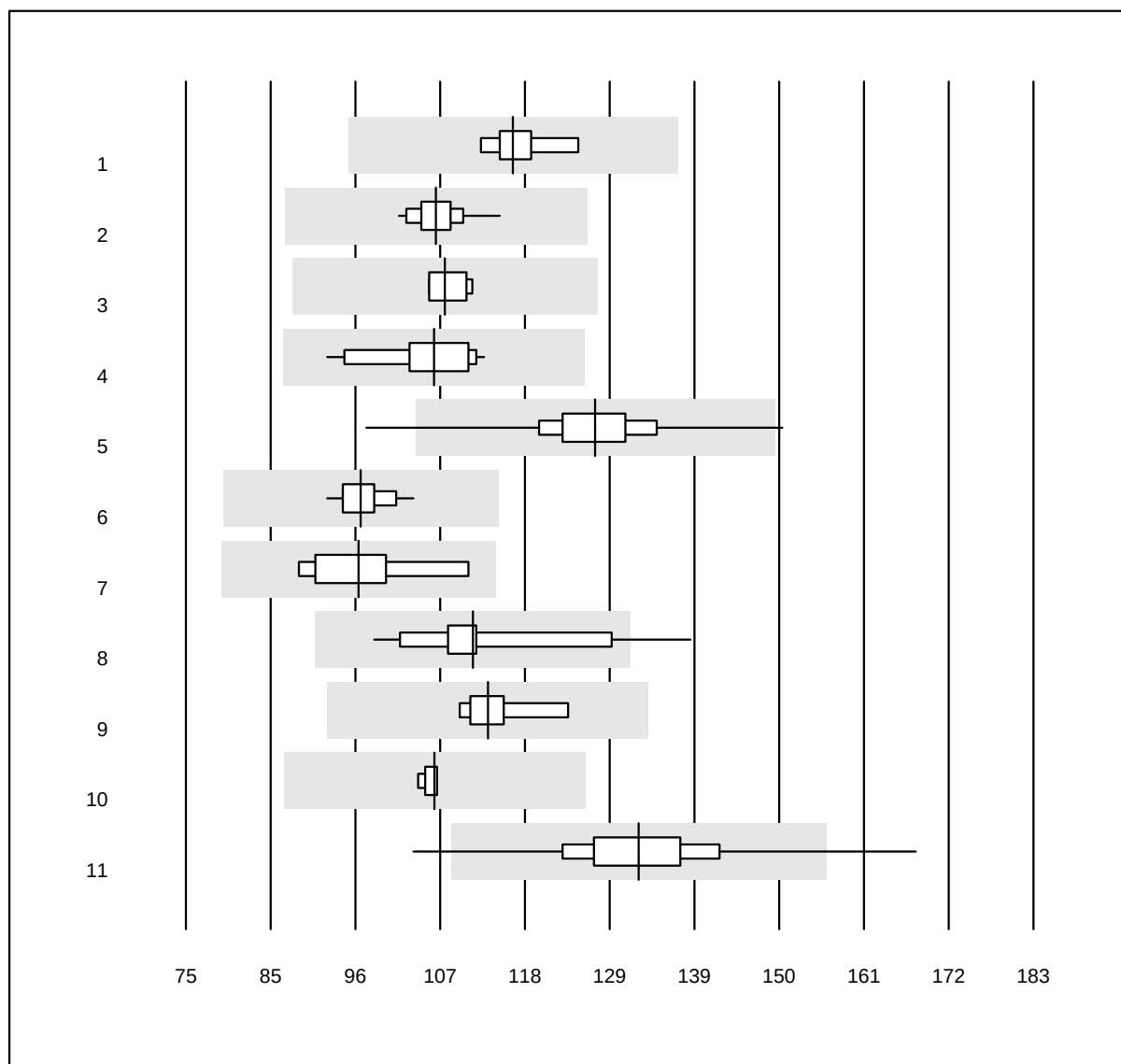
QUALAB Toleranz: 6%

Potassium (mmol/l)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 andere Methoden | 14    | 100.0 | 0.0       | 0.0       | 5.63         | 2.0  | e    |
| 13 iStat Chem8     | 12    | 100.0 | 0.0       | 0.0       | 5.57         | 1.6  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Gamma-glutamyltransferase 1

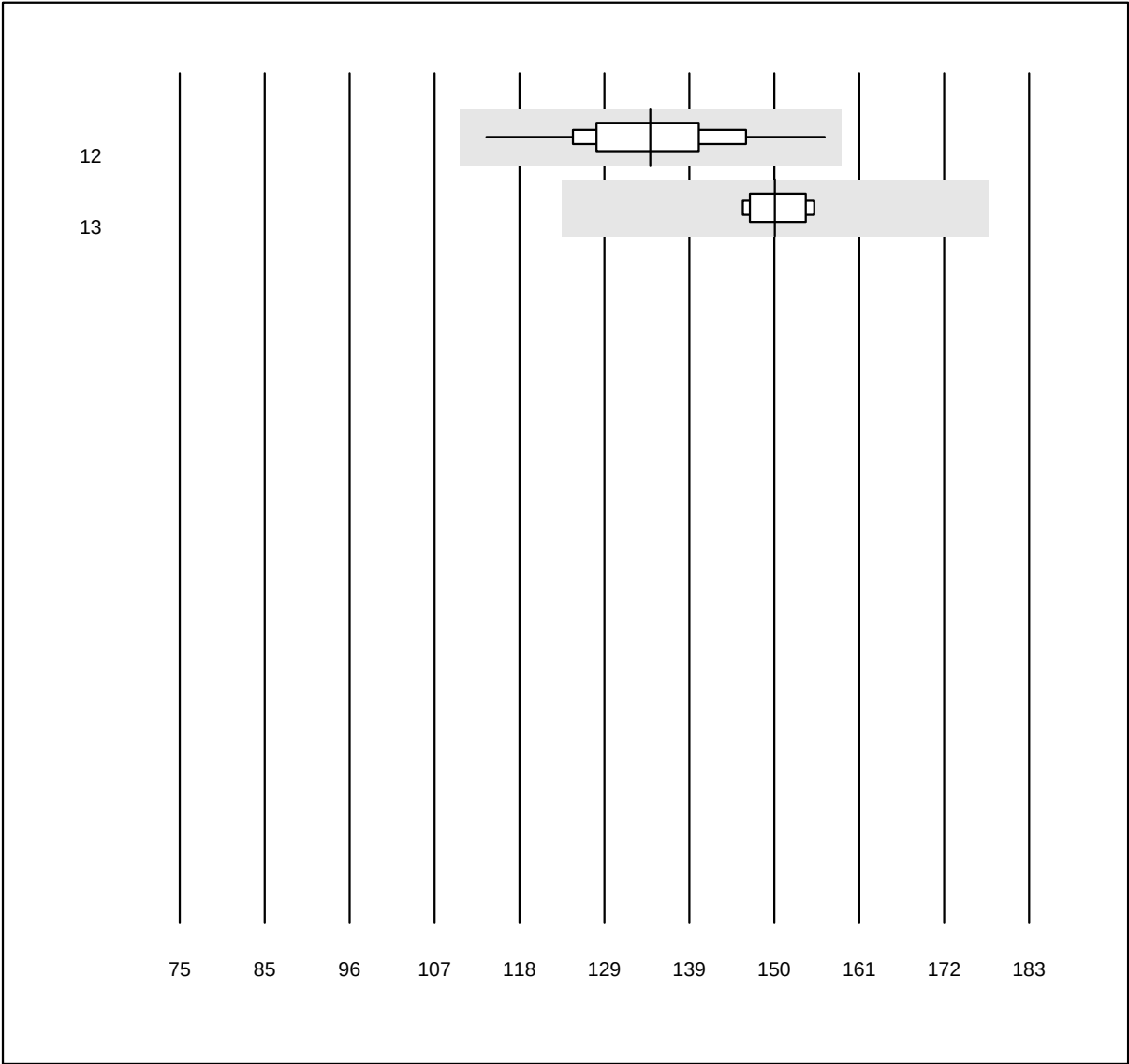


QUALAB Toleranz: 18%

|     |                    | Gamma-glutamyltransferase |       |           |           | Target Value | VK % | Type |
|-----|--------------------|---------------------------|-------|-----------|-----------|--------------|------|------|
| No. | Methode            | Total                     | % OK  | % insuff. | % outlier |              |      |      |
| 1   | Abbott             | 7                         | 100.0 | 0.0       | 0.0       | 117          | 3.0  | e    |
| 2   | Autolyser          | 22                        | 100.0 | 0.0       | 0.0       | 107          | 2.6  | e    |
| 3   | Beckman            | 4                         | 100.0 | 0.0       | 0.0       | 108          | 2.4  | e    |
| 4   | Cobas              | 41                        | 100.0 | 0.0       | 0.0       | 107          | 6.1  | e    |
| 5   | Fuji Dri-Chem      | 1181                      | 98.6  | 0.4       | 0.9       | 127          | 4.9  | e    |
| 6   | Piccolo            | 51                        | 100.0 | 0.0       | 0.0       | 97           | 2.7  | e    |
| 7   | Seamaty            | 6                         | 100.0 | 0.0       | 0.0       | 97           | 6.5  | e*   |
| 8   | Selectra Pro       | 13                        | 92.3  | 7.7       | 0.0       | 112          | 8.1  | e*   |
| 9   | Siemens            | 8                         | 100.0 | 0.0       | 0.0       | 114          | 3.5  | e    |
| 10  | Skyla              | 5                         | 100.0 | 0.0       | 0.0       | 107          | 0.8  | e    |
| 11  | Spotchem D-Concept | 627                       | 98.7  | 0.8       | 0.5       | 133          | 6.1  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Gamma-glutamyltransferase 2

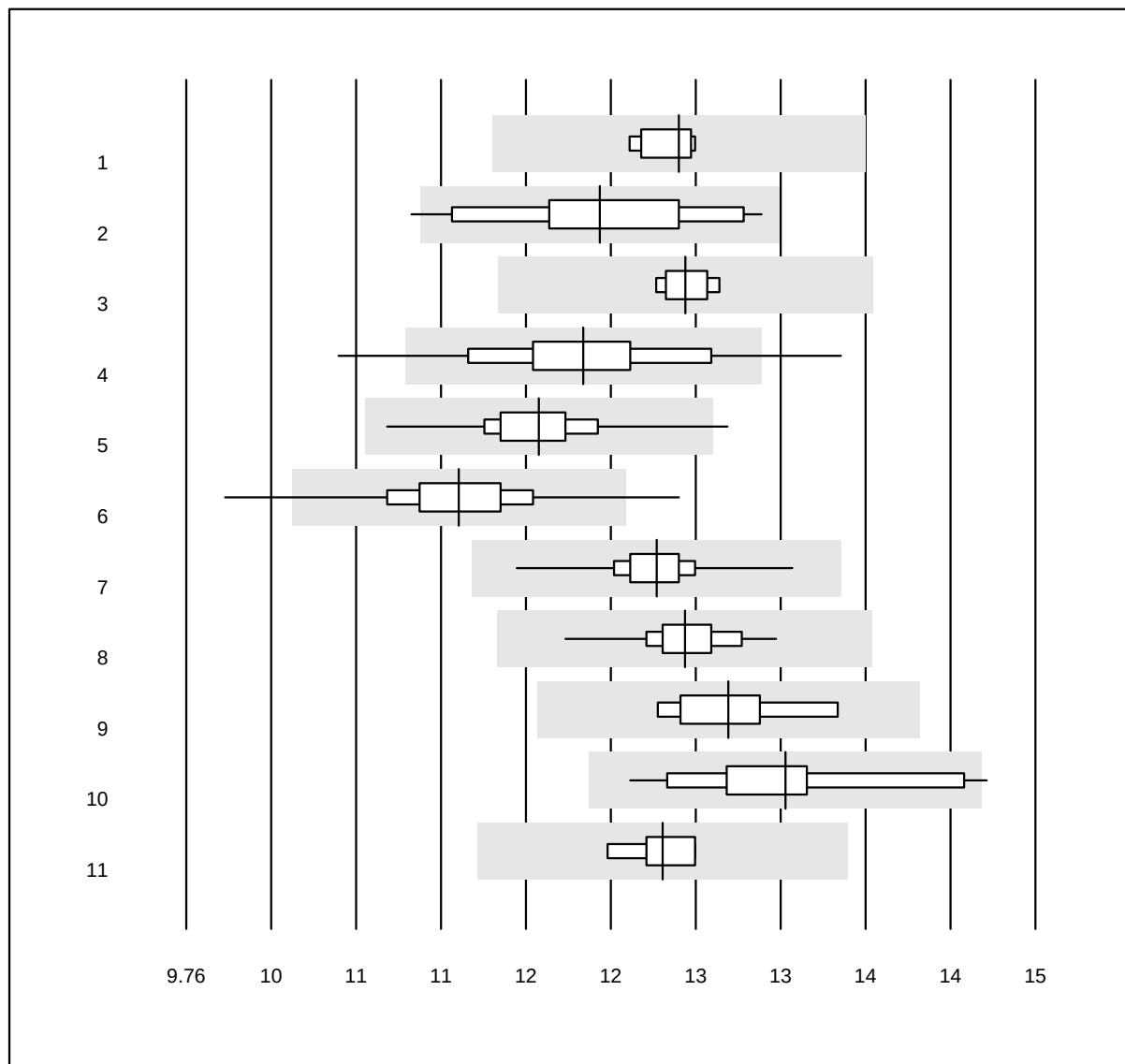


QUALAB Toleranz: 18%

|     |                  | Gamma-glutamyltransferase |       |           |           | Target Value | VK % | Type |
|-----|------------------|---------------------------|-------|-----------|-----------|--------------|------|------|
| No. | Methode          | Total                     | % OK  | % insuff. | % outlier |              |      |      |
| 12  | Spotchem SP-4430 | 119                       | 100.0 | 0.0       | 0.0       | 135          | 6.3  | e    |
| 13  | Vitros           | 5                         | 100.0 | 0.0       | 0.0       | 151          | 2.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Glucose 1



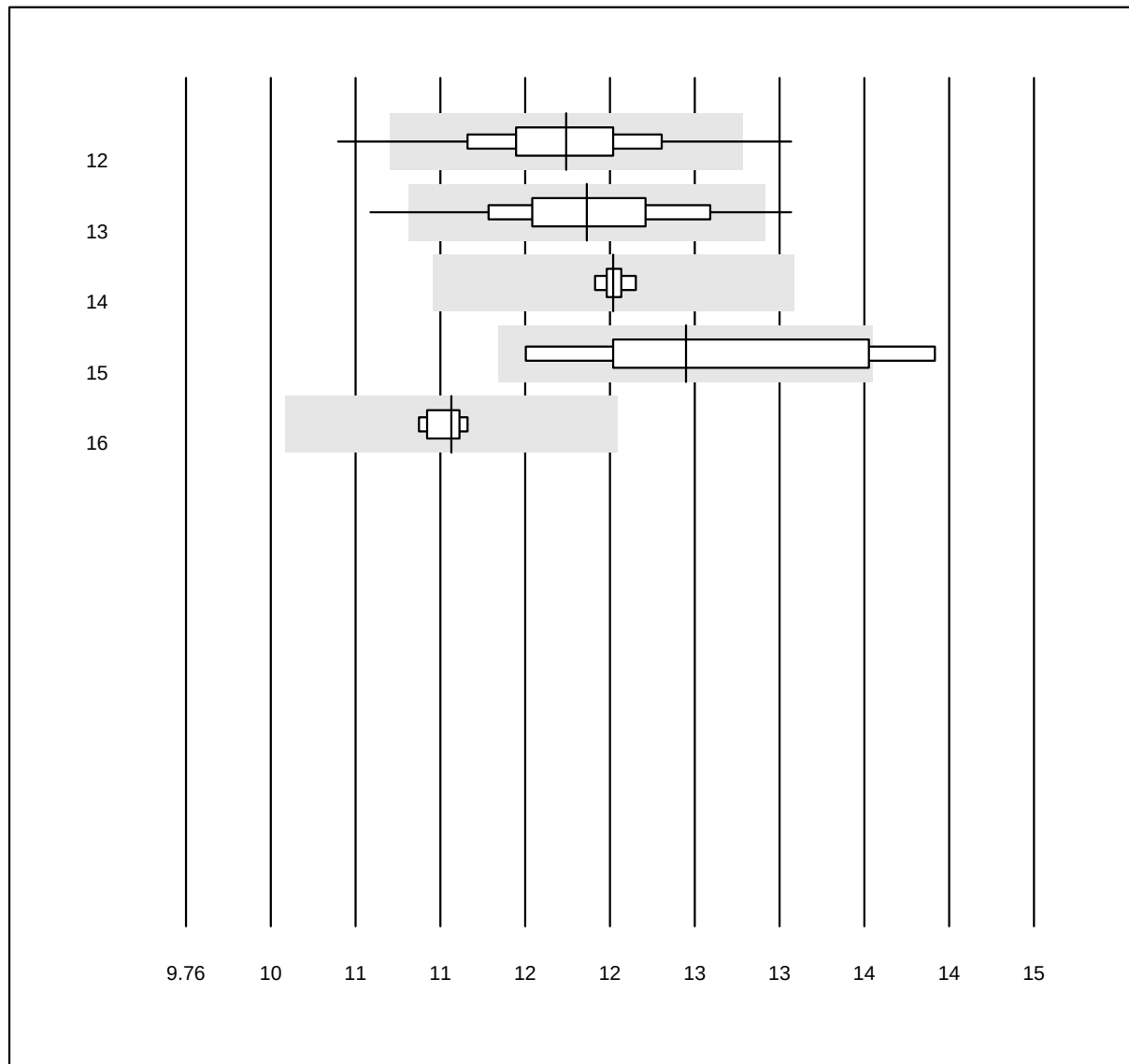
QUALAB Toleranz: 9%

Glucose (mmol/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott         | 8     | 100.0 | 0.0       | 0.0       | 12.8         | 1.2  | e    |
| 2 Autolyser      | 20    | 90.0  | 5.0       | 5.0       | 12.3         | 4.8  | e    |
| 3 Beckman        | 4     | 100.0 | 0.0       | 0.0       | 12.8         | 1.0  | e    |
| 4 Cholestech LDX | 231   | 91.3  | 4.8       | 3.9       | 12.2         | 4.6  | e    |
| 5 Cobas Pulse    | 282   | 99.3  | 0.7       | 0.0       | 11.9         | 2.6  | e    |
| 6 Fuji Dri-Chem  | 1115  | 98.7  | 0.6       | 0.6       | 11.4         | 3.0  | e    |
| 7 Piccolo        | 66    | 100.0 | 0.0       | 0.0       | 12.7         | 1.9  | e    |
| 8 Roche          | 45    | 100.0 | 0.0       | 0.0       | 12.8         | 1.7  | e    |
| 9 Seamaty        | 12    | 100.0 | 0.0       | 0.0       | 13.1         | 2.8  | e    |
| 10 Selectra Pro  | 13    | 92.3  | 7.7       | 0.0       | 13.5         | 4.2  | e*   |
| 11 Siemens       | 7     | 100.0 | 0.0       | 0.0       | 12.7         | 1.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Glucose 2



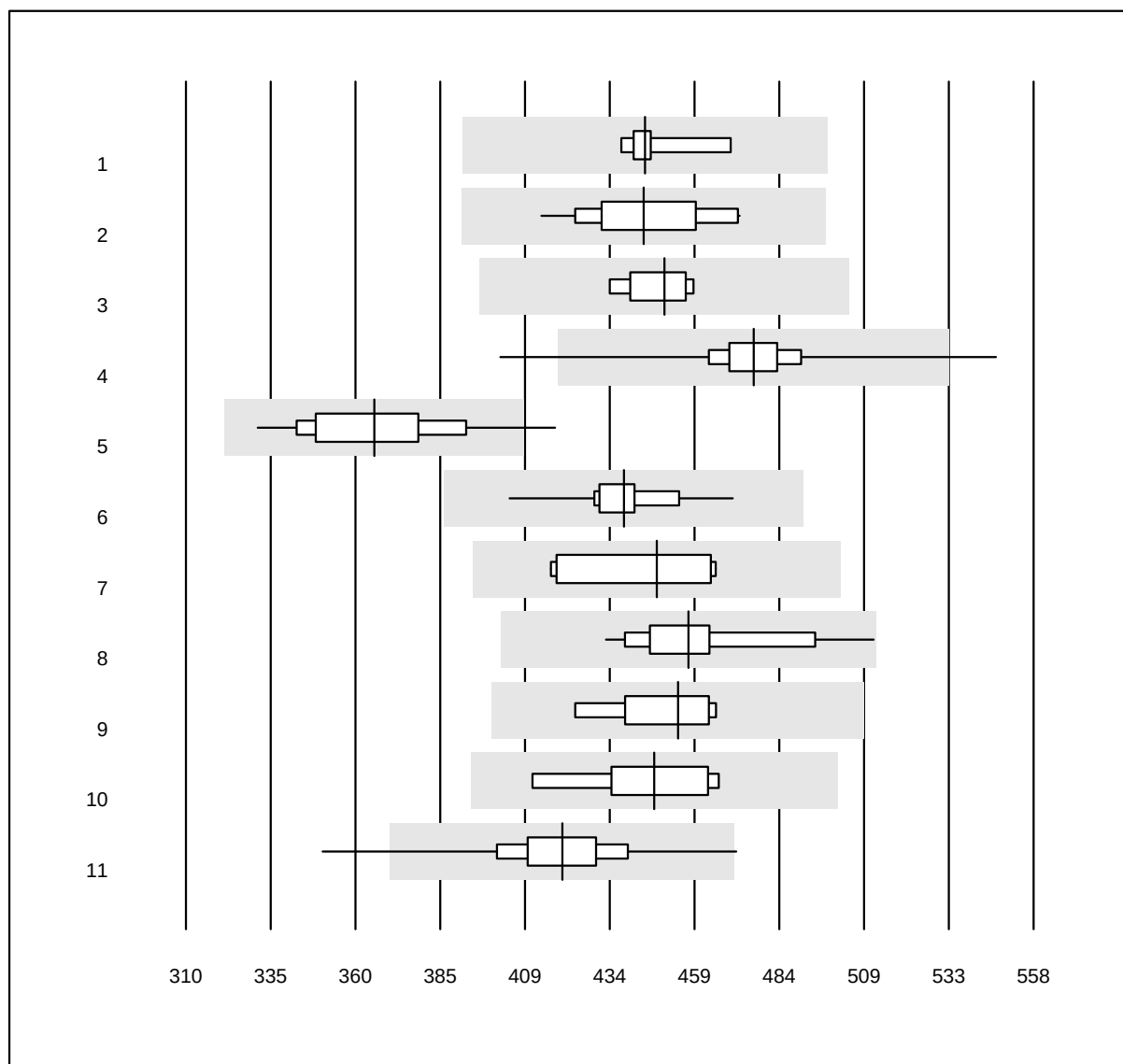
QUALAB Toleranz: 9%

Glucose (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem D-Concept | 586   | 94.7  | 4.8       | 0.5       | 12.1         | 4.2  | e    |
| 13 Spotchem SP-4430   | 94    | 93.6  | 4.3       | 2.1       | 12.2         | 4.2  | e    |
| 14 Vitros             | 5     | 100.0 | 0.0       | 0.0       | 12.4         | 0.5  | e    |
| 15 andere Methoden    | 4     | 75.0  | 0.0       | 25.0      | 12.8         | 6.0  | e*   |
| 16 iStat Chem8        | 9     | 100.0 | 0.0       | 0.0       | 11.4         | 1.0  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Uric Acid 1



QUALAB Toleranz: 12%

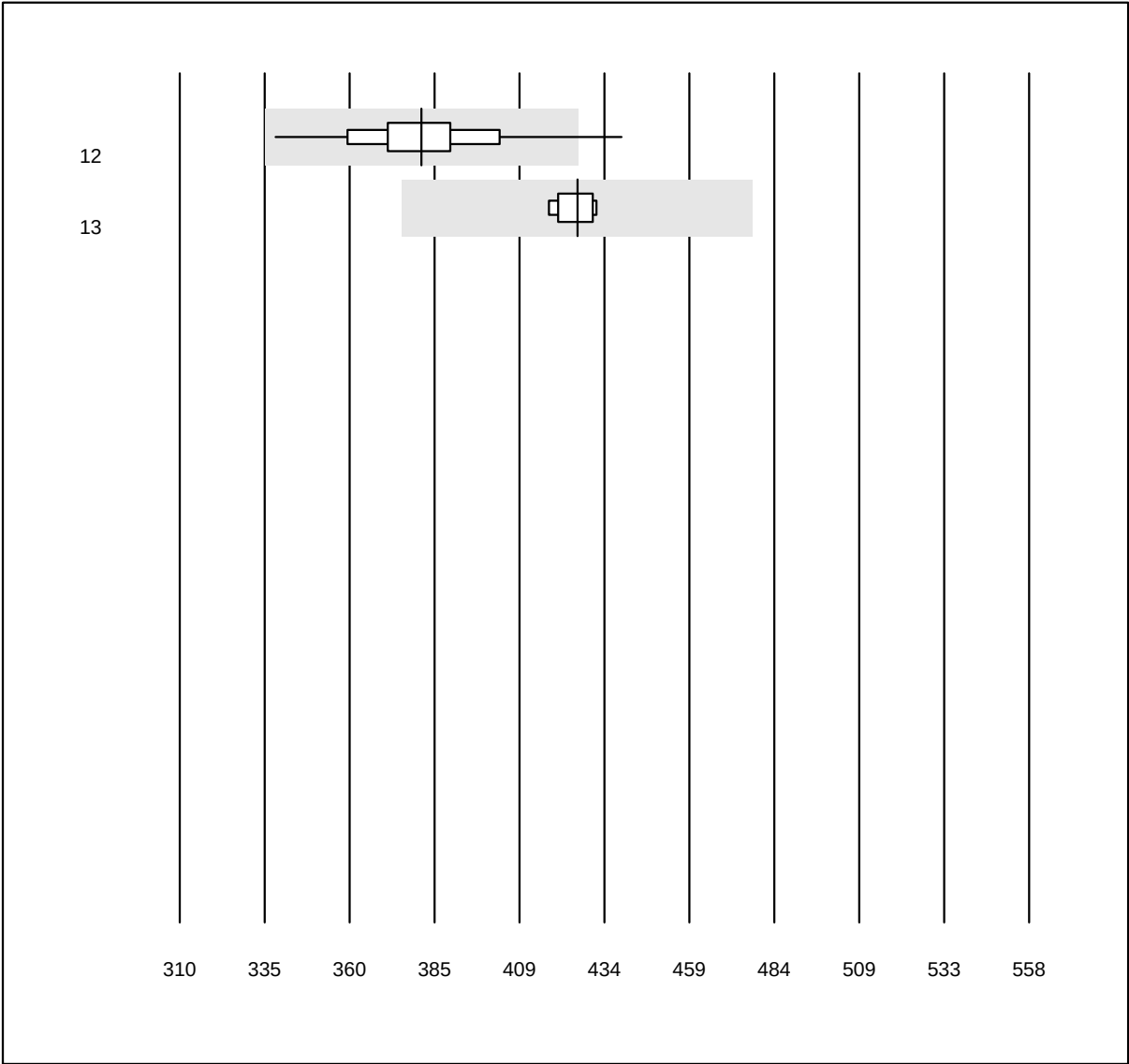
Uric Acid (µmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 444          | 2.0  | e    |
| 2 Autolyser           | 18    | 100.0 | 0.0       | 0.0       | 444          | 3.8  | e    |
| 3 Beckman             | 4     | 100.0 | 0.0       | 0.0       | 450          | 1.9  | e    |
| 4 Fuji Dri-Chem       | 1086  | 98.6  | 0.3       | 1.1       | 476          | 2.5  | e    |
| 5 Piccolo             | 33    | 90.9  | 3.0       | 6.1       | 365          | 5.7  | e    |
| 6 Roche               | 38    | 100.0 | 0.0       | 0.0       | 438          | 2.6  | e    |
| 7 Seamaty             | 12    | 83.3  | 0.0       | 16.7      | 448          | 5.0  | e*   |
| 8 Selectra Pro        | 14    | 100.0 | 0.0       | 0.0       | 457          | 4.2  | e    |
| 9 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 454          | 3.2  | e    |
| 10 Skyla              | 6     | 100.0 | 0.0       | 0.0       | 447          | 3.8  | e*   |
| 11 Spotchem D-Concept | 587   | 99.1  | 0.7       | 0.2       | 420          | 3.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)



Uric Acid 2



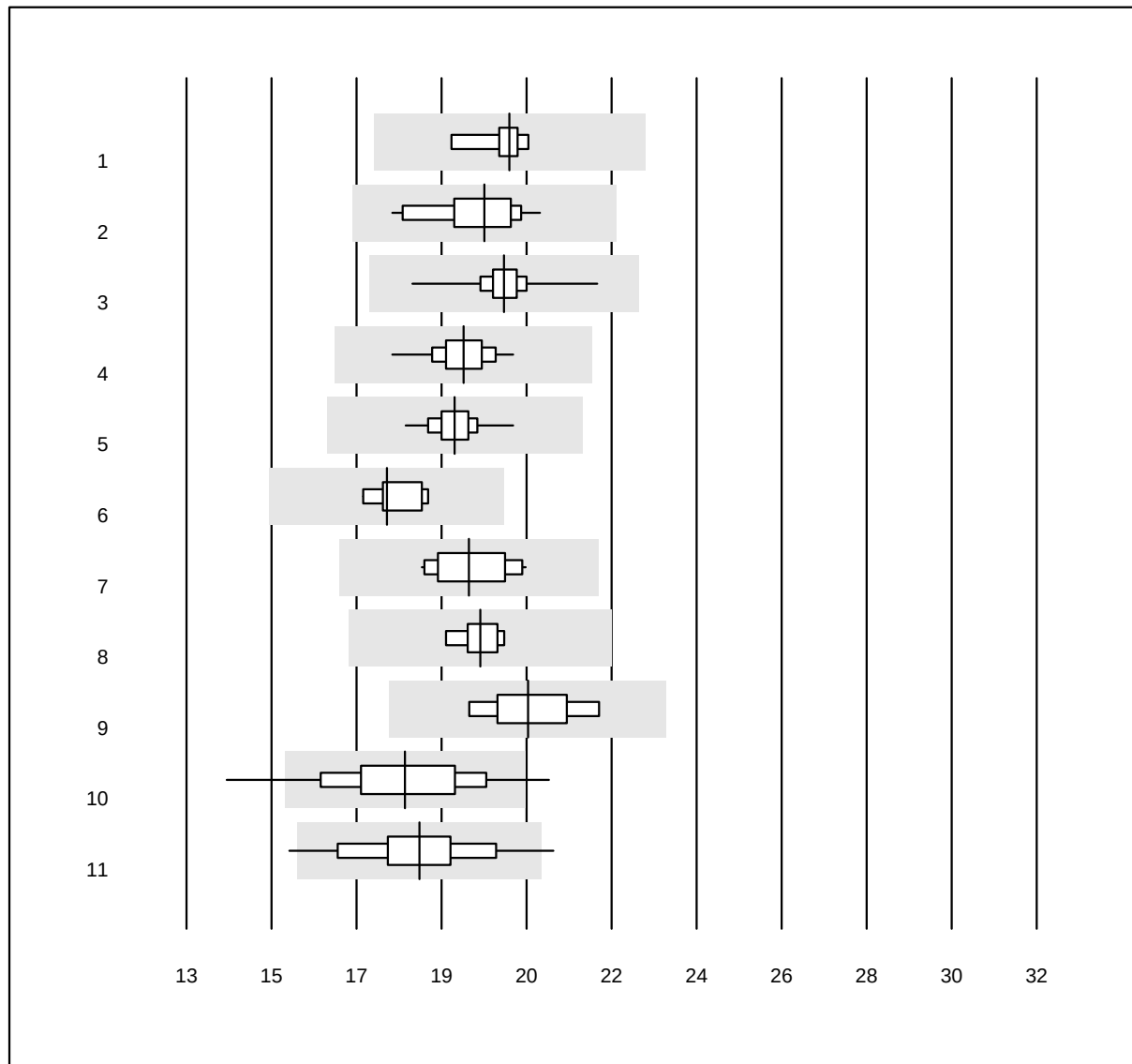
QUALAB Toleranz: 12%

Uric Acid (μmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem SP-4430 | 92    | 95.7  | 2.2       | 2.2       | 381          | 4.6  | e    |
| 13 Vitros           | 5     | 100.0 | 0.0       | 0.0       | 426          | 1.2  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Urea 1



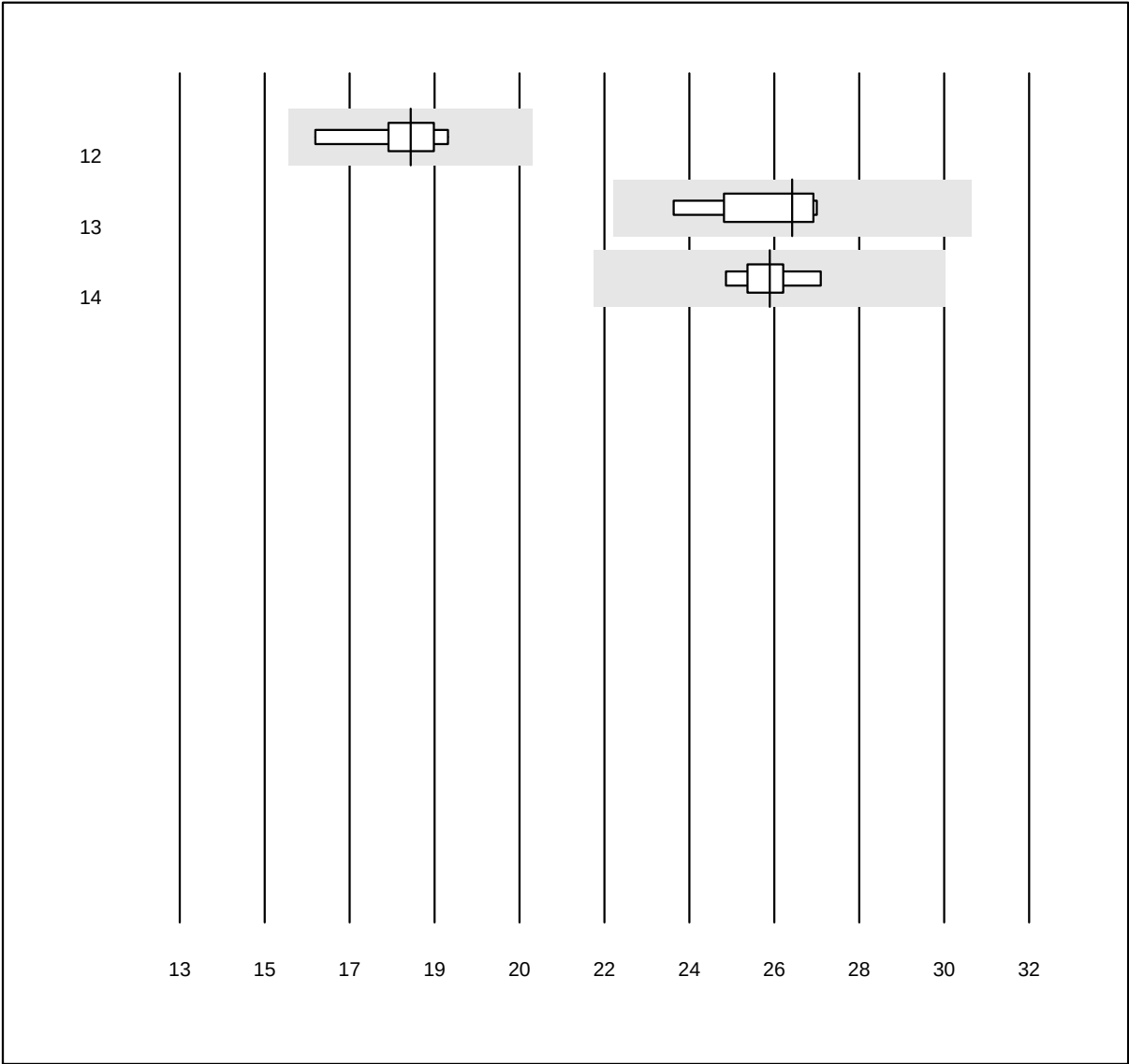
QUALAB Toleranz: 15%

Urea (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 20.2         | 2.4  | e    |
| 2 Autolyser           | 17    | 100.0 | 0.0       | 0.0       | 19.7         | 4.7  | e    |
| 3 Fuji Dri-Chem       | 657   | 98.9  | 0.0       | 1.1       | 20.1         | 2.1  | e    |
| 4 Piccolo             | 60    | 96.7  | 0.0       | 3.3       | 19.2         | 3.1  | e    |
| 5 Roche               | 39    | 100.0 | 0.0       | 0.0       | 19.0         | 2.6  | e    |
| 6 Seamaty             | 12    | 100.0 | 0.0       | 0.0       | 17.5         | 3.0  | e    |
| 7 Selectra Pro        | 11    | 100.0 | 0.0       | 0.0       | 19.3         | 3.9  | e    |
| 8 Siemens             | 9     | 100.0 | 0.0       | 0.0       | 19.6         | 2.1  | e    |
| 9 Skyla               | 5     | 100.0 | 0.0       | 0.0       | 20.6         | 4.2  | e*   |
| 10 Spotchem D-Concept | 333   | 91.9  | 5.4       | 2.7       | 17.9         | 8.1  | e    |
| 11 Spotchem SP-4430   | 43    | 93.0  | 7.0       | 0.0       | 18.2         | 7.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Urea 2



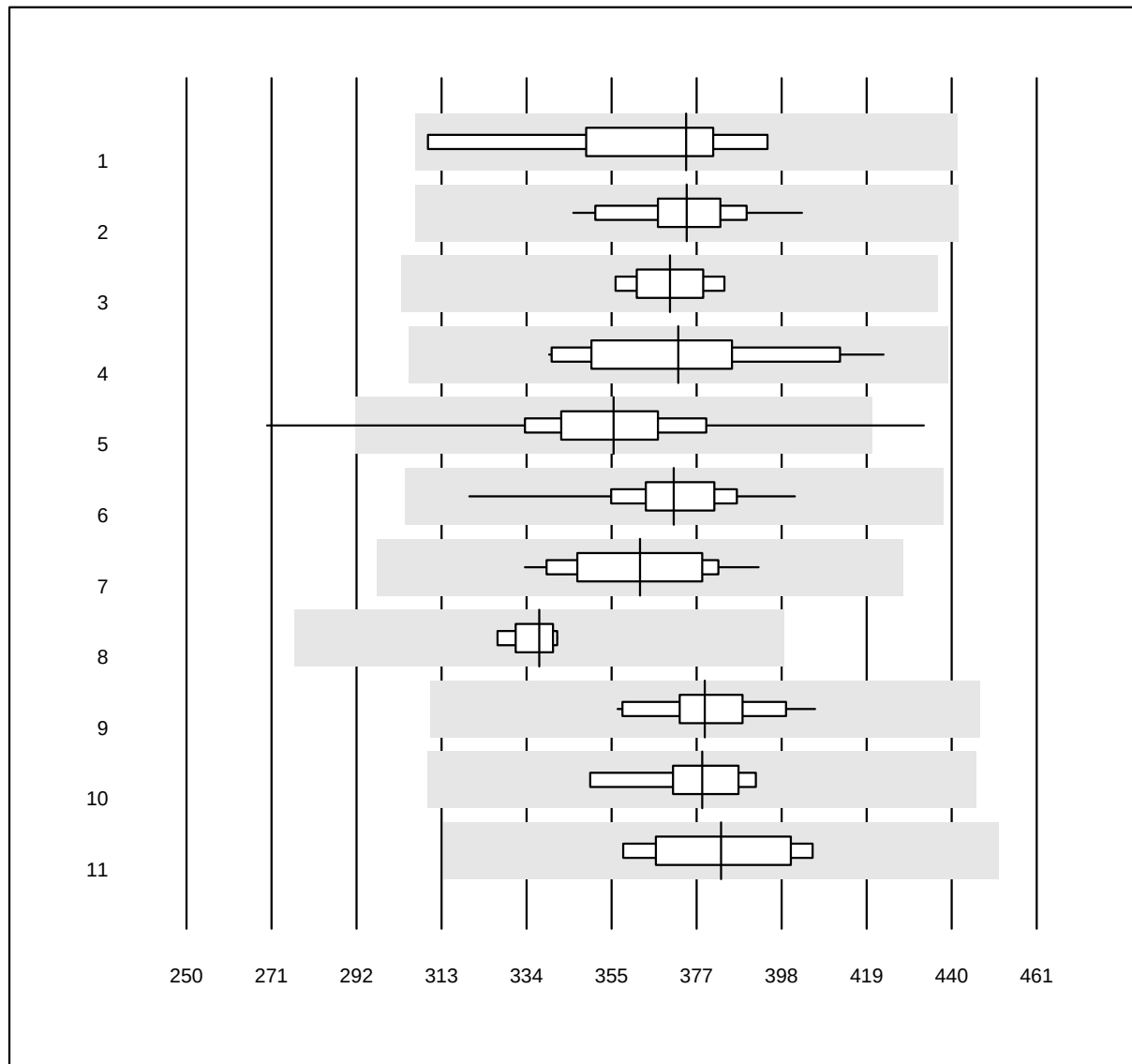
QUALAB Toleranz: 15%

Urea (mmol/l)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Vitros          | 9     | 100.0 | 0.0       | 0.0       | 18.2         | 4.9  | e    |
| 13 andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 26.7         | 4.2  | e*   |
| 14 iStat Chem8     | 7     | 100.0 | 0.0       | 0.0       | 26.2         | 2.3  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Creatinine 1



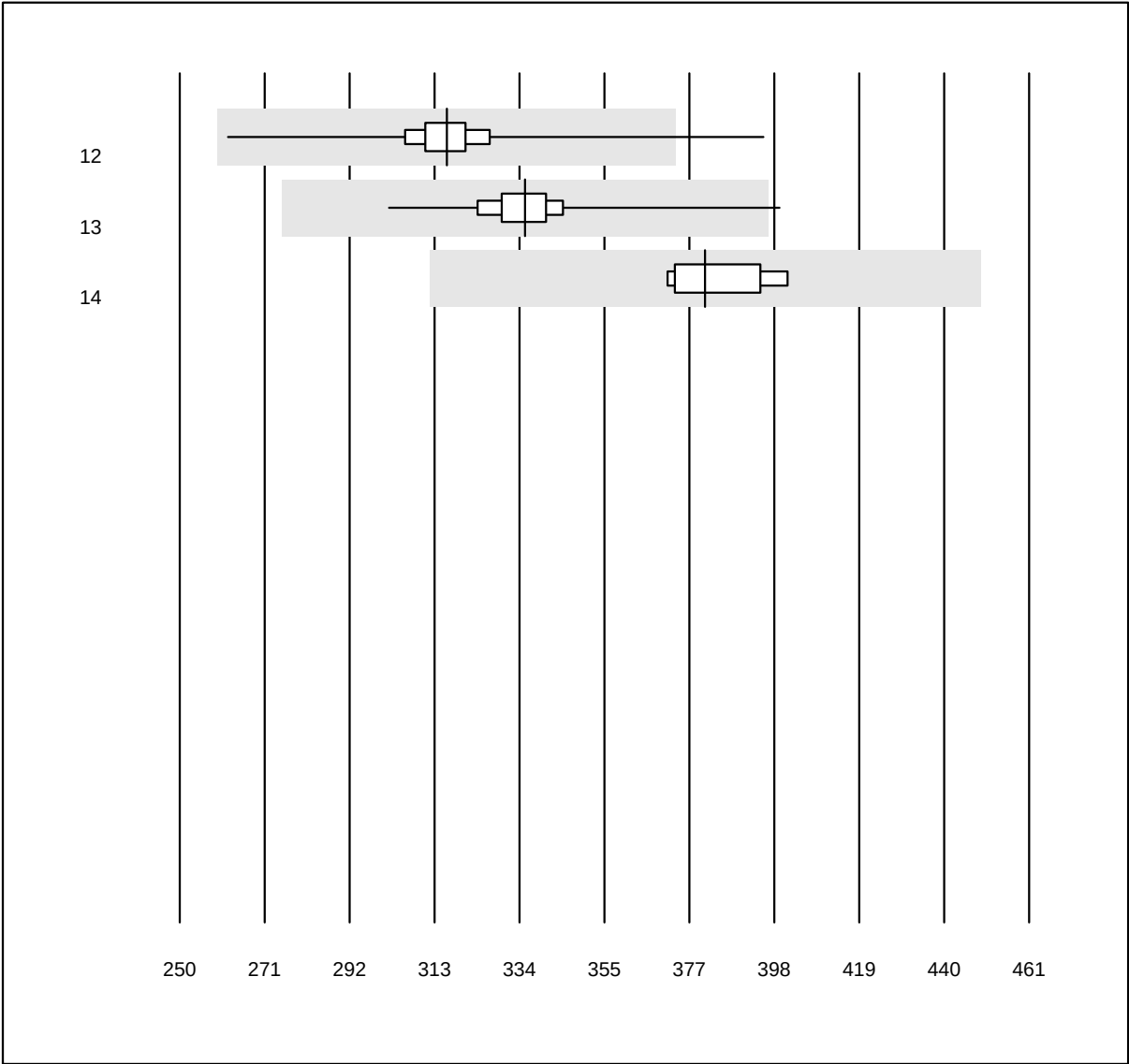
QUALAB Toleranz: 18%

Creatinine (µmol/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott        | 8     | 100.0 | 0.0       | 0.0       | 374          | 7.0  | e*   |
| 2 Autolyser     | 22    | 95.5  | 0.0       | 4.5       | 374          | 3.5  | e    |
| 3 Beckman       | 4     | 100.0 | 0.0       | 0.0       | 370          | 2.3  | e    |
| 4 EPOC          | 14    | 85.7  | 0.0       | 14.3      | 372          | 6.3  | e    |
| 5 Fuji Dri-Chem | 1214  | 97.4  | 0.6       | 2.0       | 356          | 5.4  | e    |
| 6 Piccolo       | 63    | 100.0 | 0.0       | 0.0       | 371          | 3.9  | e    |
| 7 Roche         | 40    | 100.0 | 0.0       | 0.0       | 363          | 4.6  | e    |
| 8 Seamaty       | 12    | 100.0 | 0.0       | 0.0       | 338          | 1.7  | e    |
| 9 Selectra Pro  | 15    | 100.0 | 0.0       | 0.0       | 379          | 3.5  | e    |
| 10 Siemens      | 8     | 100.0 | 0.0       | 0.0       | 378          | 3.3  | e    |
| 11 Skyla        | 5     | 100.0 | 0.0       | 0.0       | 383          | 4.5  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Creatinine 2



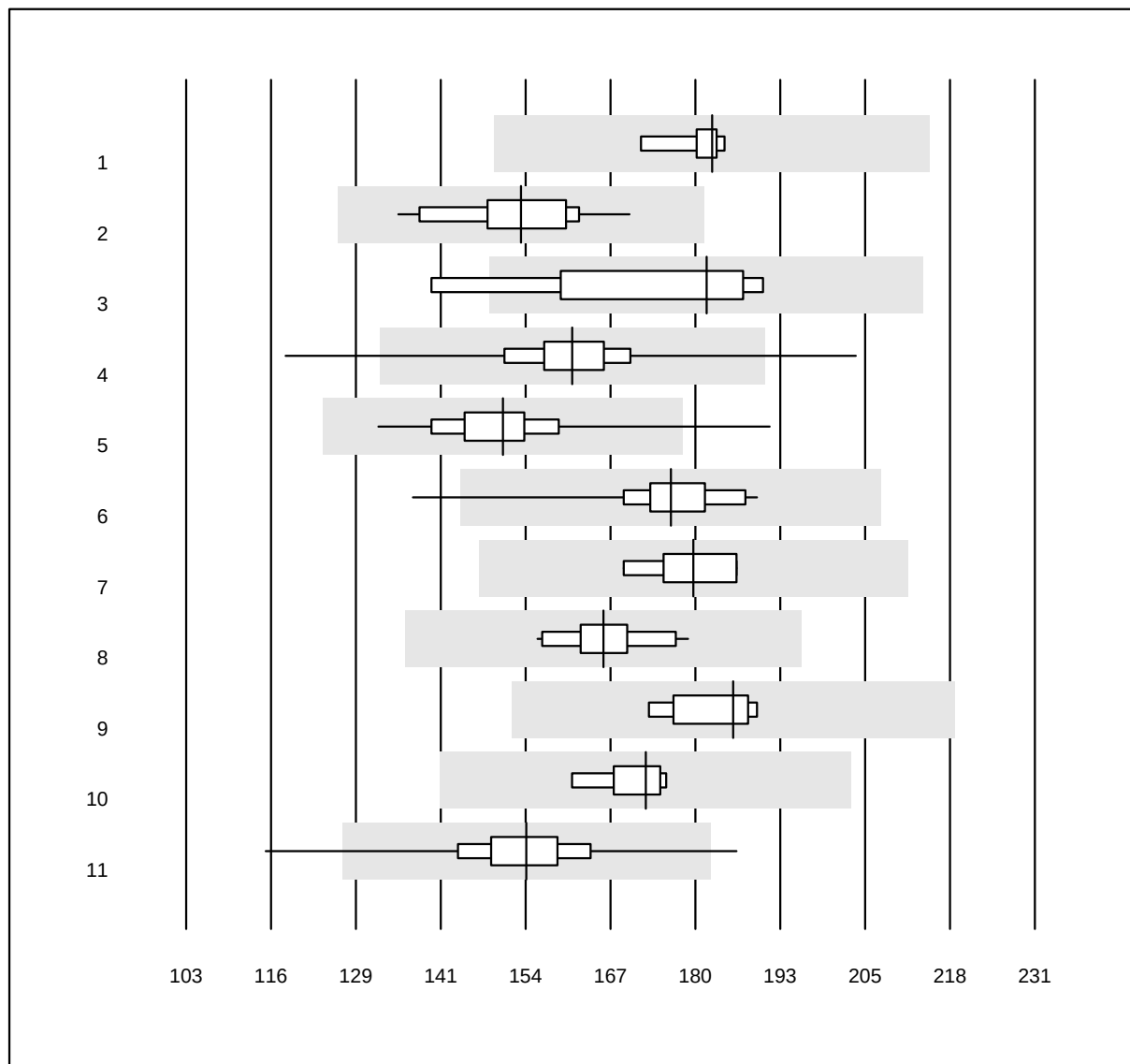
QUALAB Toleranz: 18%

Creatinine (µmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem D-Concept | 638   | 99.1  | 0.5       | 0.5       | 316          | 3.3  | e    |
| 13 Spotchem SP-4430   | 134   | 98.5  | 0.7       | 0.7       | 336          | 3.5  | e    |
| 14 Vitros             | 5     | 100.0 | 0.0       | 0.0       | 381          | 3.0  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Aspartate aminotransferase 1



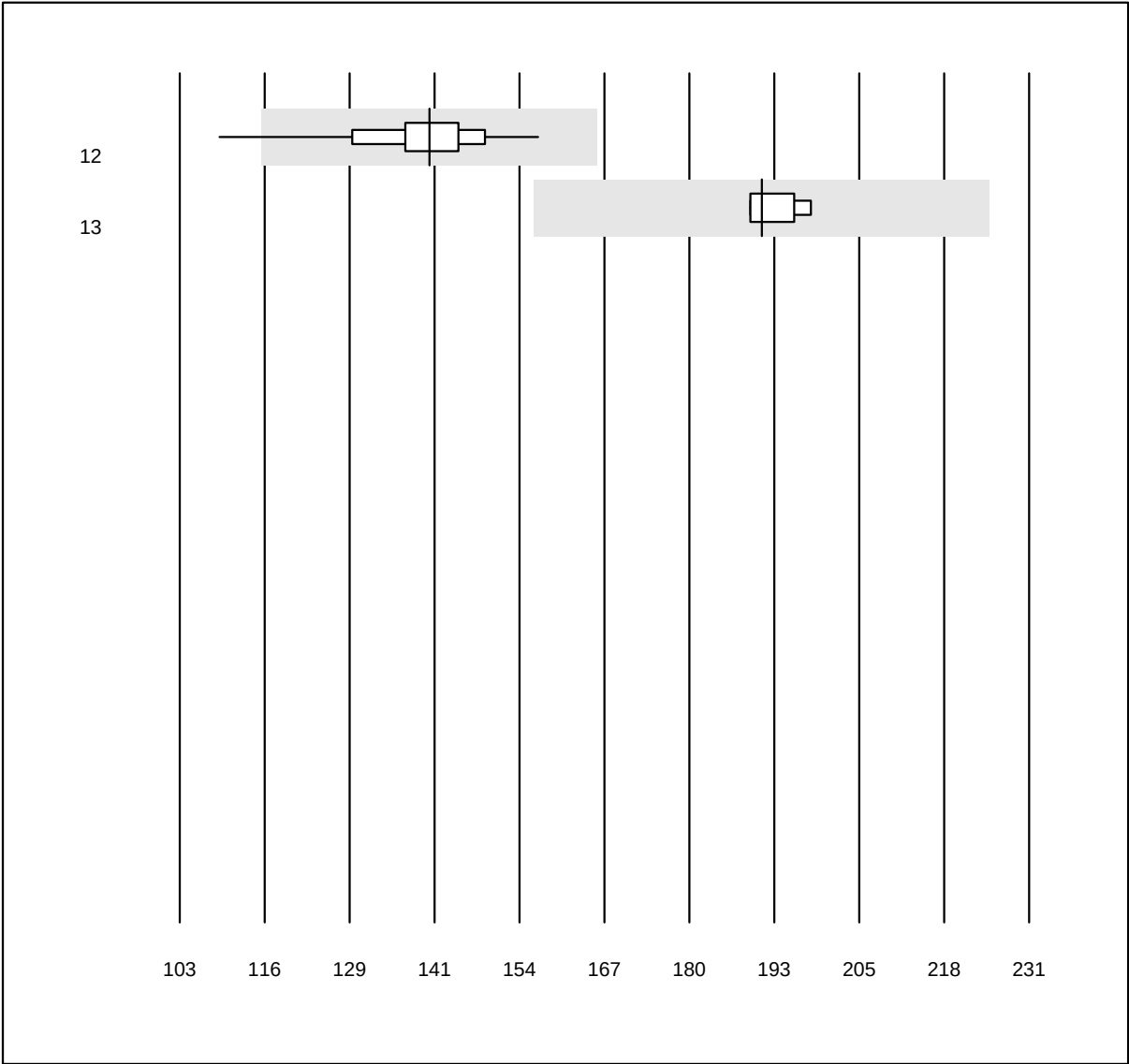
QUALAB Toleranz: 18%

Aspartate aminotransferase  
(U/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 182          | 2.1  | e    |
| 2 Autolyser           | 22    | 100.0 | 0.0       | 0.0       | 154          | 5.7  | e    |
| 3 Beckman             | 4     | 100.0 | 0.0       | 0.0       | 182          | 9.0  | e*   |
| 4 Fuji Dri-Chem       | 1183  | 97.9  | 1.2       | 0.9       | 161          | 5.3  | e    |
| 5 Piccolo             | 67    | 98.5  | 1.5       | 0.0       | 151          | 6.3  | e    |
| 6 Roche               | 42    | 97.6  | 2.4       | 0.0       | 176          | 5.0  | e    |
| 7 Seamaty             | 12    | 100.0 | 0.0       | 0.0       | 180          | 3.5  | e    |
| 8 Selectra Pro        | 14    | 100.0 | 0.0       | 0.0       | 166          | 3.8  | e    |
| 9 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 186          | 3.3  | e    |
| 10 Skyla              | 5     | 100.0 | 0.0       | 0.0       | 172          | 2.5  | e    |
| 11 Spotchem D-Concept | 628   | 99.0  | 0.6       | 0.3       | 154          | 5.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Aspartate aminotransferase 2



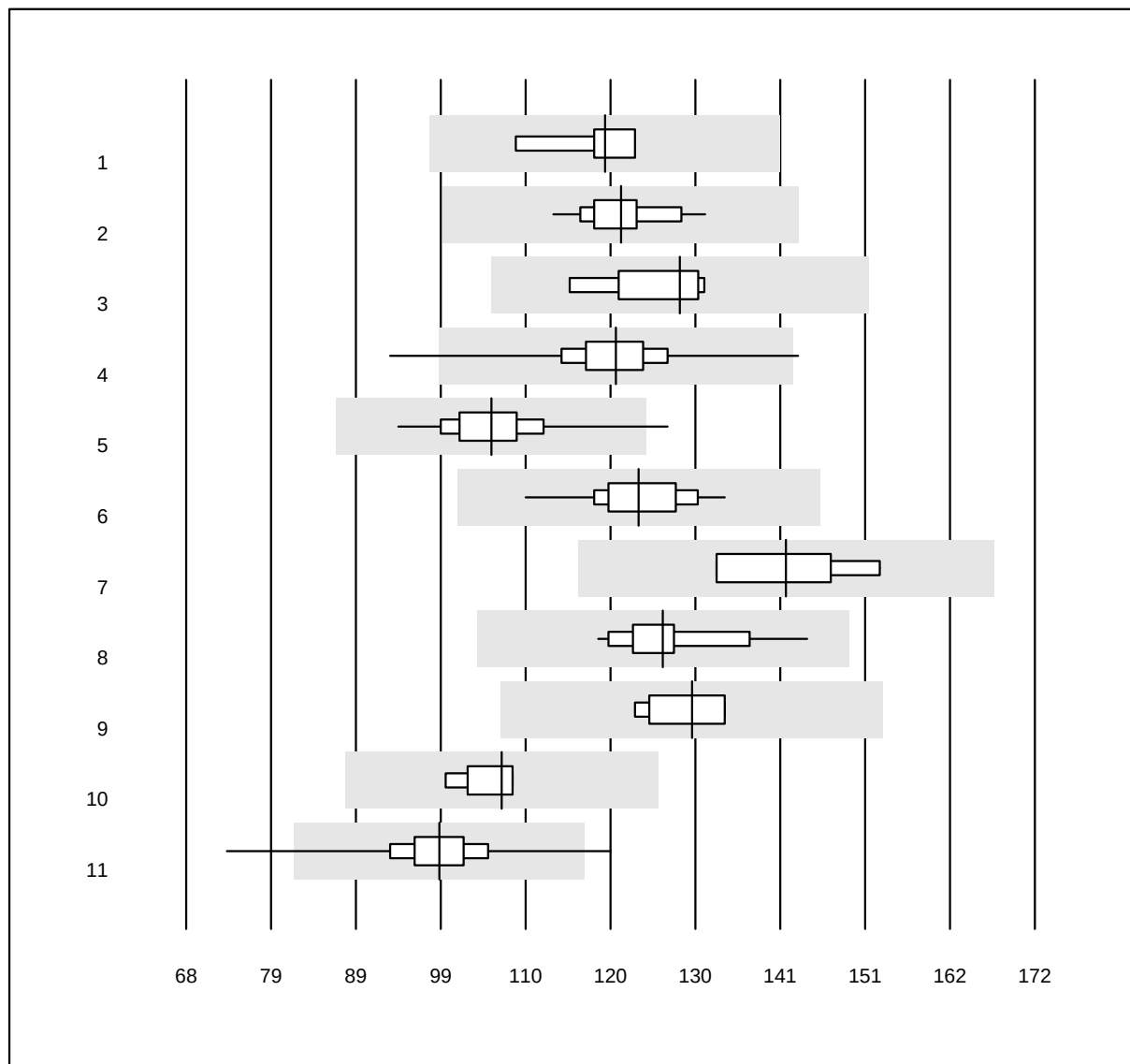
QUALAB Toleranz: 18%

Aspartate aminotransferase (U/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem SP-4430 | 130   | 97.7  | 1.5       | 0.8       | 141          | 5.9  | e    |
| 13 Vitros           | 5     | 100.0 | 0.0       | 0.0       | 191          | 2.0  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Alanine aminotransferase 1



QUALAB Toleranz: 18%

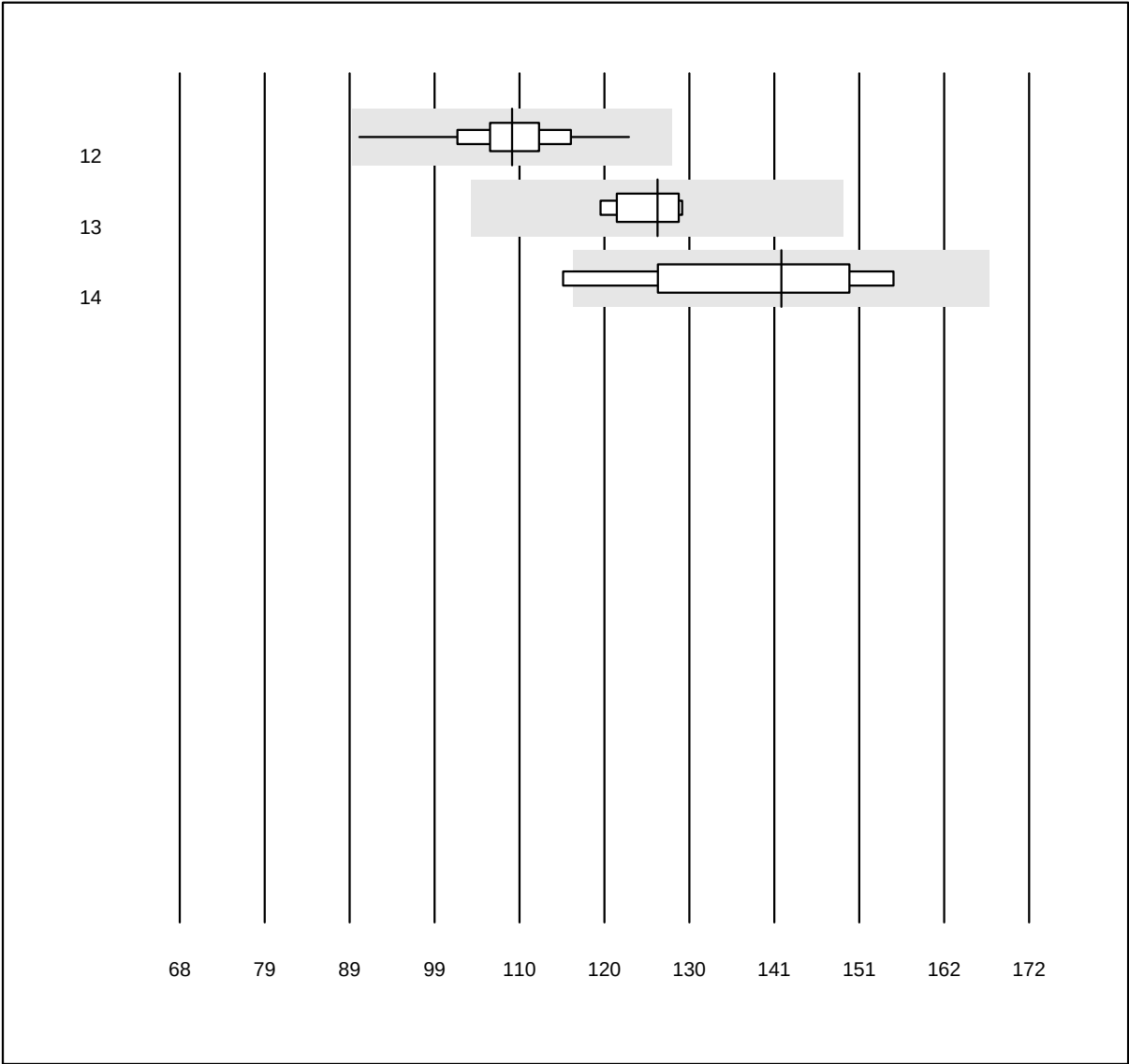
Alanine aminotransferase  
(U/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 119          | 3.7  | e    |
| 2 Autolyser           | 22    | 100.0 | 0.0       | 0.0       | 121          | 3.6  | e    |
| 3 Beckman             | 4     | 100.0 | 0.0       | 0.0       | 129          | 4.3  | e    |
| 4 Fuji Dri-Chem       | 1205  | 98.2  | 0.2       | 1.6       | 121          | 4.7  | e    |
| 5 Piccolo             | 65    | 92.3  | 1.5       | 6.2       | 105          | 5.1  | e    |
| 6 Roche               | 42    | 100.0 | 0.0       | 0.0       | 123          | 4.2  | e    |
| 7 Seamaty             | 12    | 100.0 | 0.0       | 0.0       | 142          | 5.5  | e    |
| 8 Selectra Pro        | 14    | 100.0 | 0.0       | 0.0       | 126          | 4.7  | e    |
| 9 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 130          | 3.5  | e    |
| 10 Skyla              | 5     | 100.0 | 0.0       | 0.0       | 107          | 3.0  | e    |
| 11 Spotchem D-Concept | 633   | 98.6  | 1.1       | 0.3       | 99           | 5.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)



Alanine aminotransferase 2



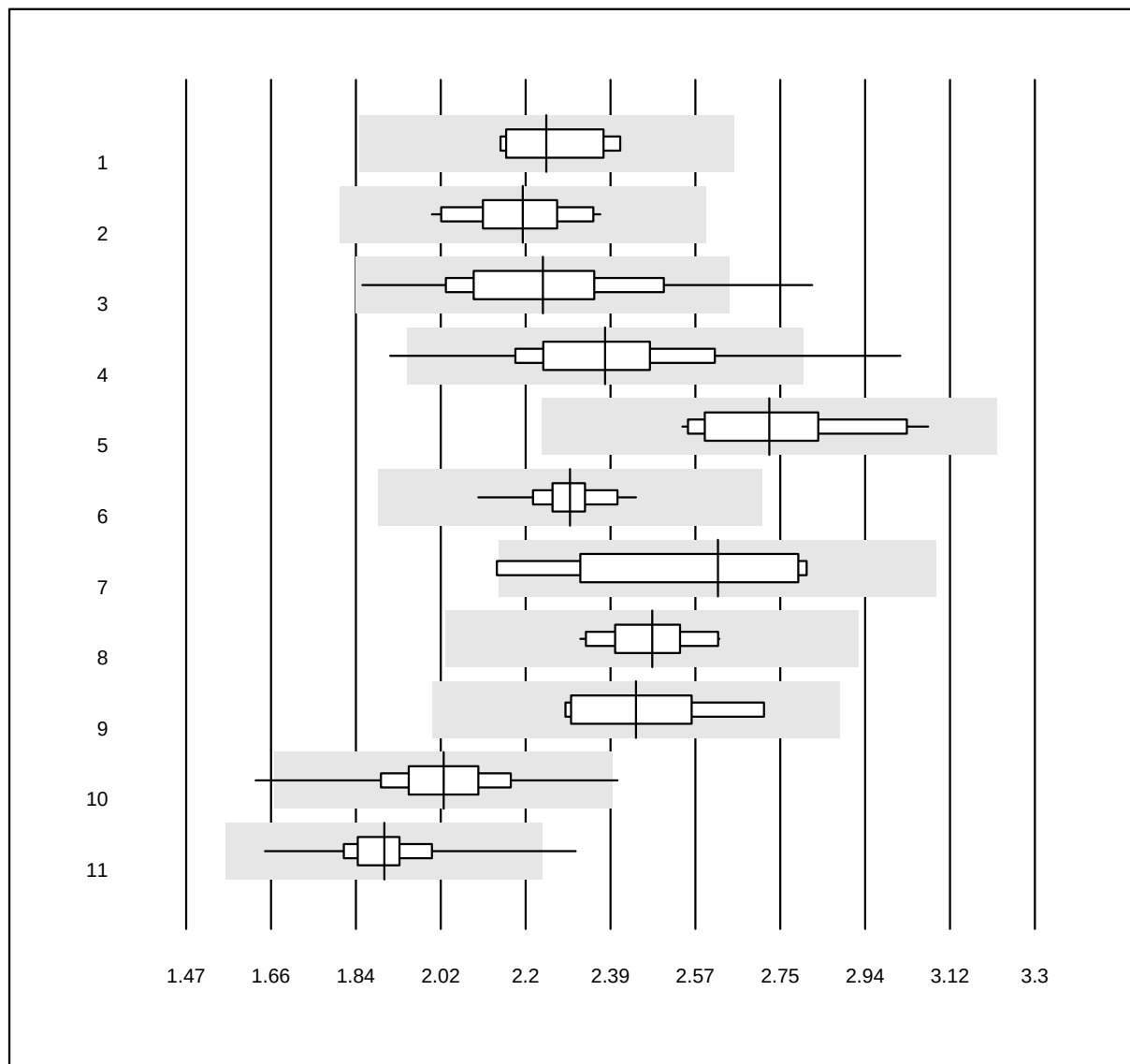
QUALAB Toleranz: 18%

Alanine aminotransferase  
(U/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Spotchem SP-4430 | 130   | 100.0 | 0.0       | 0.0       | 109          | 5.3  | e    |
| 13 Vitros           | 6     | 100.0 | 0.0       | 0.0       | 127          | 3.0  | e    |
| 14 andere Methoden  | 5     | 100.0 | 0.0       | 0.0       | 142          | 9.4  | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Triglycerides



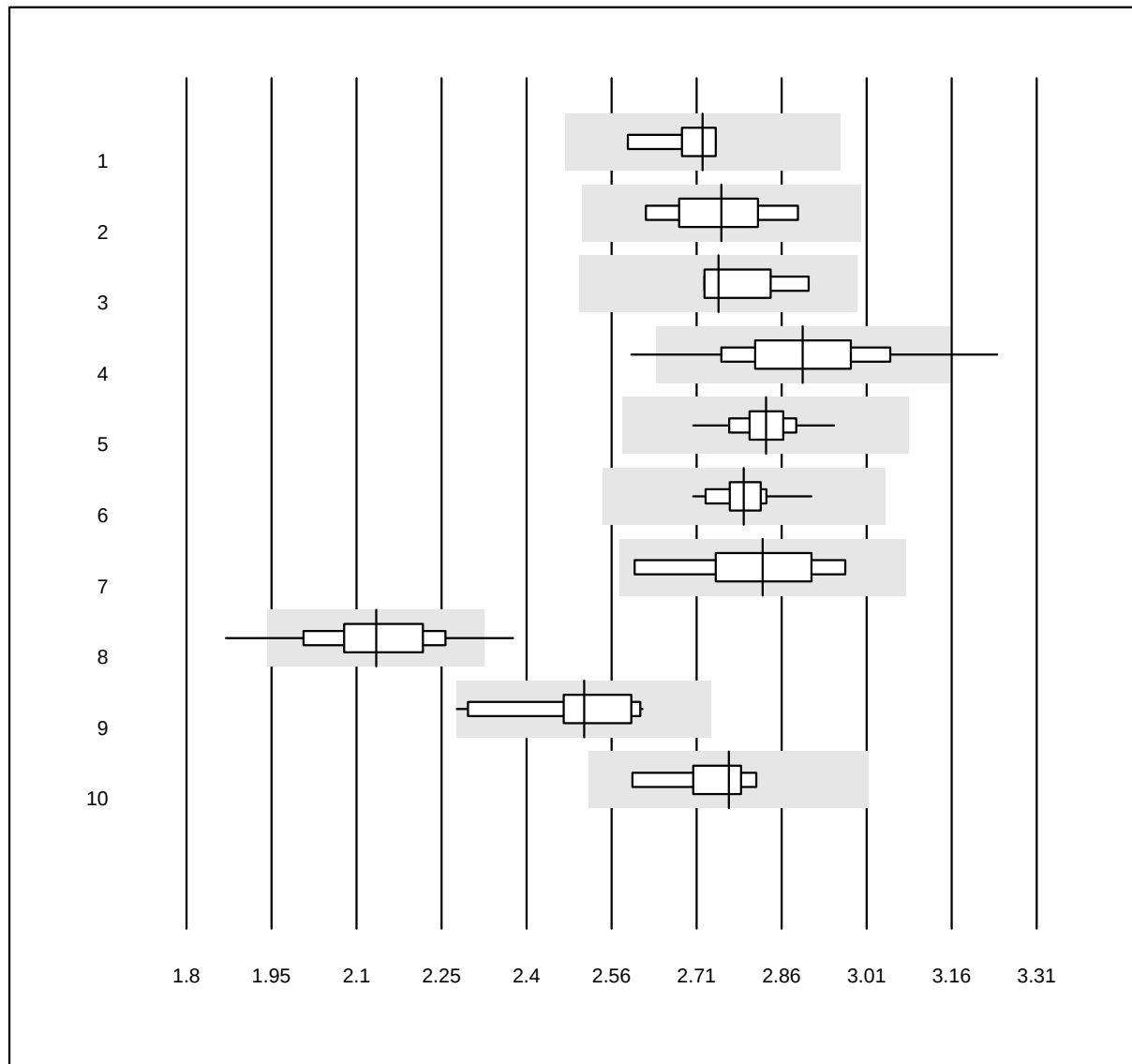
QUALAB Toleranz: 18%

Triglycerides (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 2.25         | 4.4  | e    |
| 2 Autolyser           | 23    | 100.0 | 0.0       | 0.0       | 2.20         | 4.9  | e    |
| 3 Cholestech LDX      | 235   | 94.0  | 2.1       | 3.8       | 2.24         | 8.0  | e    |
| 4 Fuji Dri-Chem       | 1001  | 95.4  | 2.8       | 1.8       | 2.37         | 7.5  | e    |
| 5 Piccolo             | 20    | 100.0 | 0.0       | 0.0       | 2.73         | 6.2  | e    |
| 6 Roche               | 35    | 100.0 | 0.0       | 0.0       | 2.30         | 2.9  | e    |
| 7 Seamaty             | 5     | 100.0 | 0.0       | 0.0       | 2.62         | 9.7  | e*   |
| 8 Selectra Pro        | 12    | 100.0 | 0.0       | 0.0       | 2.48         | 3.8  | e    |
| 9 Siemens             | 7     | 100.0 | 0.0       | 0.0       | 2.44         | 6.4  | e*   |
| 10 Spotchem D-Concept | 464   | 97.2  | 0.4       | 2.4       | 2.03         | 5.5  | e    |
| 11 Spotchem SP-4430   | 72    | 95.8  | 1.4       | 2.8       | 1.90         | 5.1  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Calcium



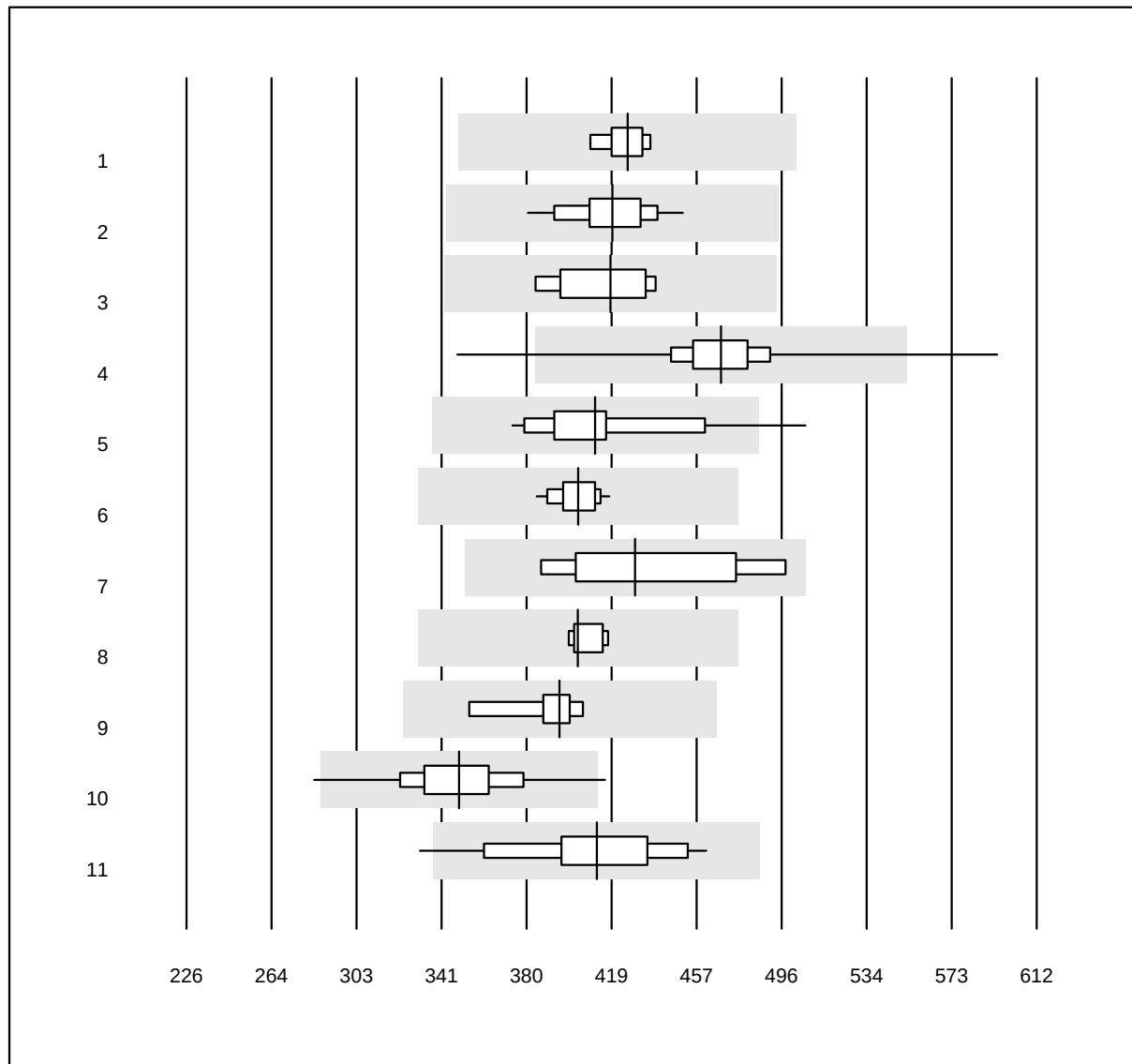
QUALAB Toleranz: 9%

Calcium (mmol/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott             | 7     | 100.0 | 0.0       | 0.0       | 2.72         | 1.8  | e    |
| 2 Autolyser          | 8     | 100.0 | 0.0       | 0.0       | 2.75         | 3.1  | e*   |
| 3 Beckman            | 4     | 100.0 | 0.0       | 0.0       | 2.75         | 2.4  | e*   |
| 4 Fuji Dri-Chem      | 248   | 94.8  | 3.2       | 2.0       | 2.89         | 4.1  | e    |
| 5 Piccolo            | 47    | 97.9  | 0.0       | 2.1       | 2.83         | 1.8  | e    |
| 6 Roche              | 41    | 100.0 | 0.0       | 0.0       | 2.79         | 1.6  | e    |
| 7 Siemens            | 7     | 100.0 | 0.0       | 0.0       | 2.82         | 4.0  | e*   |
| 8 Spotchem D-Concept | 63    | 92.1  | 7.9       | 0.0       | 2.14         | 4.9  | e    |
| 9 Spotchem SP-4430   | 11    | 90.9  | 9.1       | 0.0       | 2.51         | 4.0  | e*   |
| 10 Vitros            | 5     | 100.0 | 0.0       | 0.0       | 2.76         | 2.2  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Creatine kinase 1



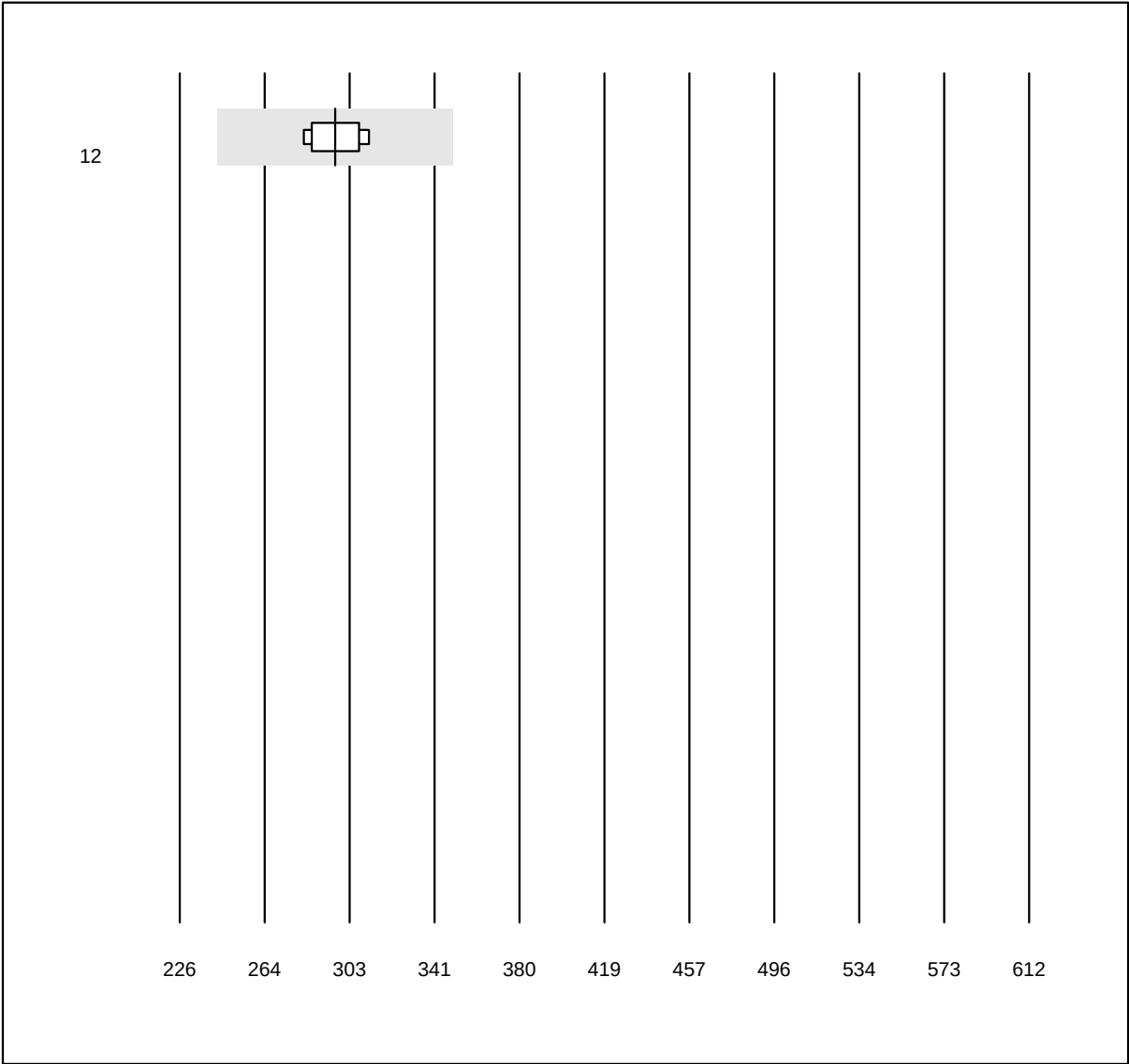
QUALAB Toleranz: 18%

Creatine kinase (U/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 426          | 2.1  | e    |
| 2 Autolyser           | 17    | 100.0 | 0.0       | 0.0       | 419          | 4.1  | e    |
| 3 Beckman             | 4     | 100.0 | 0.0       | 0.0       | 419          | 4.9  | e*   |
| 4 Fuji Dri-Chem       | 693   | 97.4  | 1.3       | 1.3       | 469          | 4.8  | e    |
| 5 Piccolo             | 21    | 95.2  | 4.8       | 0.0       | 412          | 7.2  | e    |
| 6 Roche               | 37    | 100.0 | 0.0       | 0.0       | 404          | 2.2  | e    |
| 7 Seamaty             | 10    | 100.0 | 0.0       | 0.0       | 430          | 10.0 | e*   |
| 8 Selectra Pro        | 7     | 100.0 | 0.0       | 0.0       | 404          | 1.7  | e    |
| 9 Siemens             | 7     | 100.0 | 0.0       | 0.0       | 395          | 3.8  | e    |
| 10 Spotchem D-Concept | 323   | 98.8  | 0.9       | 0.3       | 350          | 6.5  | e    |
| 11 Spotchem SP-4430   | 30    | 96.7  | 3.3       | 0.0       | 412          | 7.7  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Creatine kinase 2

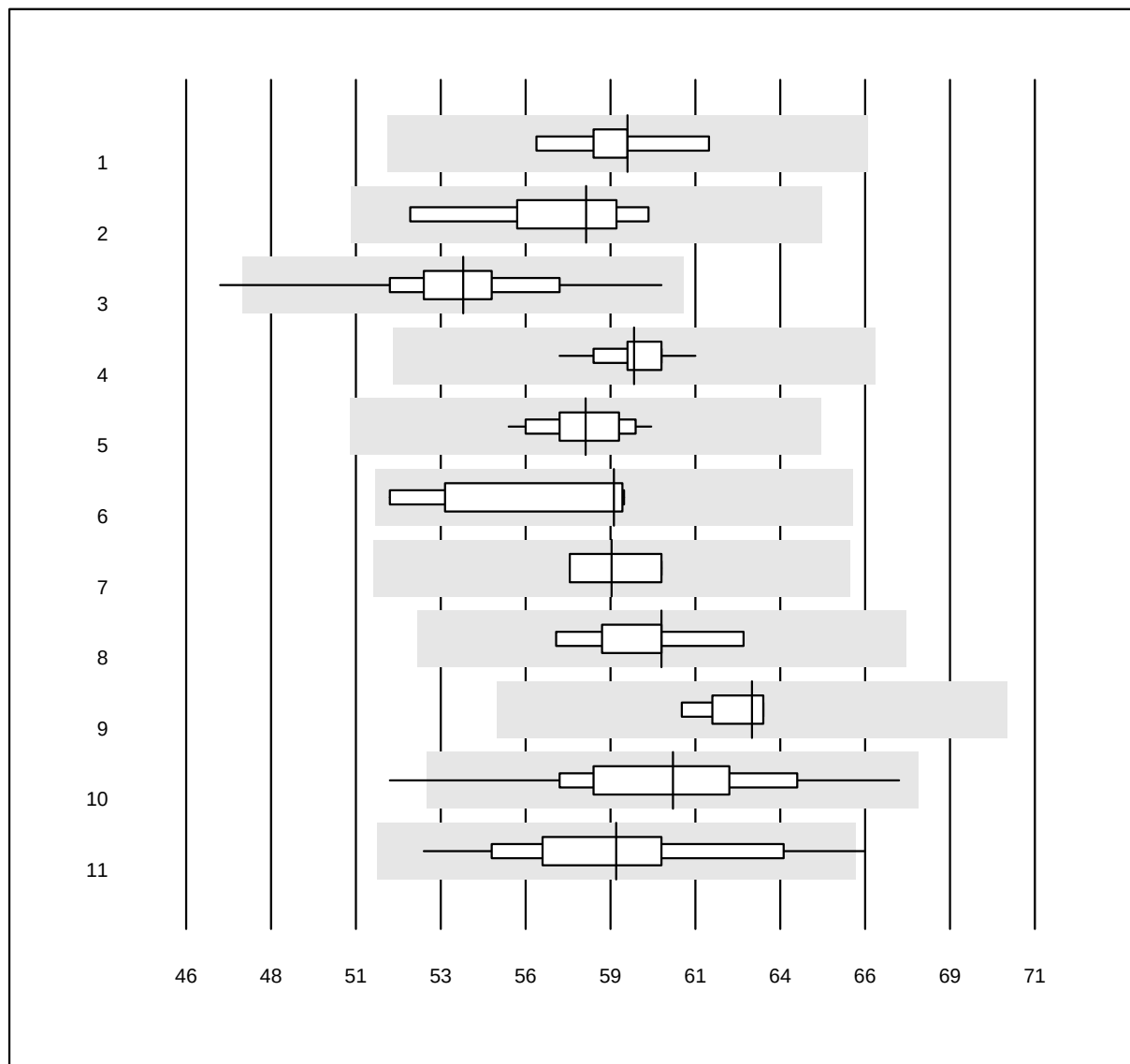


QUALAB Toleranz: 18%

Creatine kinase (U/l)

| No. Methode                                                                                                           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Vitros                                                                                                             | 5     | 100.0 | 0.0       | 0.0       | 297          | 3.7  | e    |
| 2 additional results were submitted but not published because the method groups were too small. (< results per group) |       |       |           |           |              |      |      |

## Protein total 1



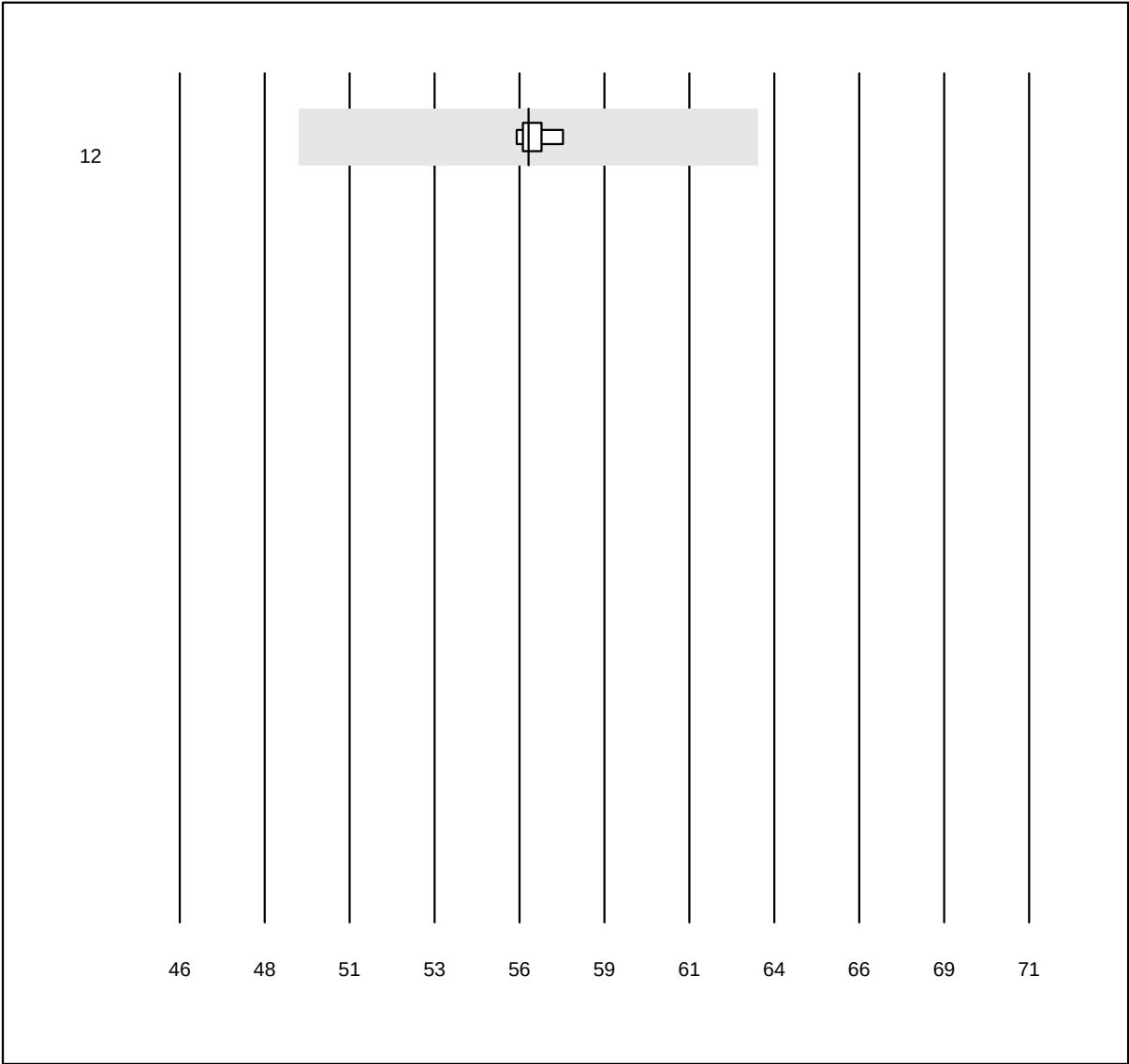
QUALAB Toleranz: 12%

Protein total (g/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 59.0         | 2.2  | e    |
| 2 Autolyser           | 5     | 100.0 | 0.0       | 0.0       | 57.8         | 3.4  | e*   |
| 3 Fuji Dri-Chem       | 197   | 97.0  | 0.5       | 2.5       | 54.2         | 3.6  | e    |
| 4 Piccolo             | 46    | 100.0 | 0.0       | 0.0       | 59.2         | 1.5  | e    |
| 5 Roche               | 37    | 100.0 | 0.0       | 0.0       | 57.8         | 1.9  | e    |
| 6 Seamaty             | 8     | 100.0 | 0.0       | 0.0       | 58.6         | 5.4  | e*   |
| 7 Selectra Pro        | 7     | 100.0 | 0.0       | 0.0       | 58.5         | 1.9  | e    |
| 8 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 60.0         | 2.6  | e    |
| 9 Skyla               | 5     | 100.0 | 0.0       | 0.0       | 62.7         | 1.4  | e    |
| 10 Spotchem D-Concept | 190   | 98.4  | 0.5       | 1.1       | 60.3         | 5.0  | e    |
| 11 Spotchem SP-4430   | 21    | 95.2  | 4.8       | 0.0       | 58.7         | 5.1  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Protein total 2



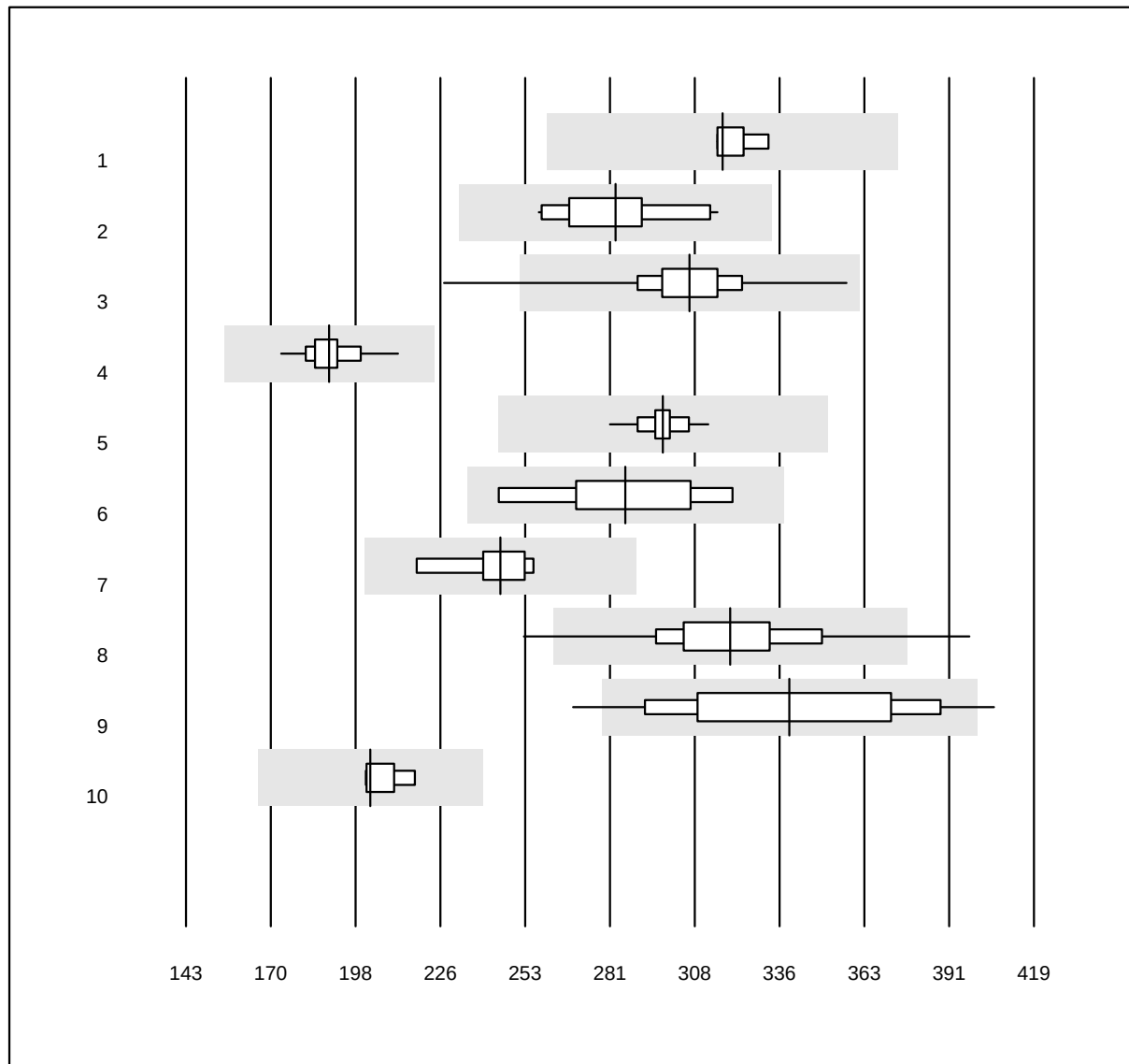
QUALAB Toleranz: 12%

Protein total (g/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 12  | Vitros  | 5     | 100.0 | 0.0       | 0.0       | 56.3         | 0.7  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Amylase



QUALAB Toleranz: 18%

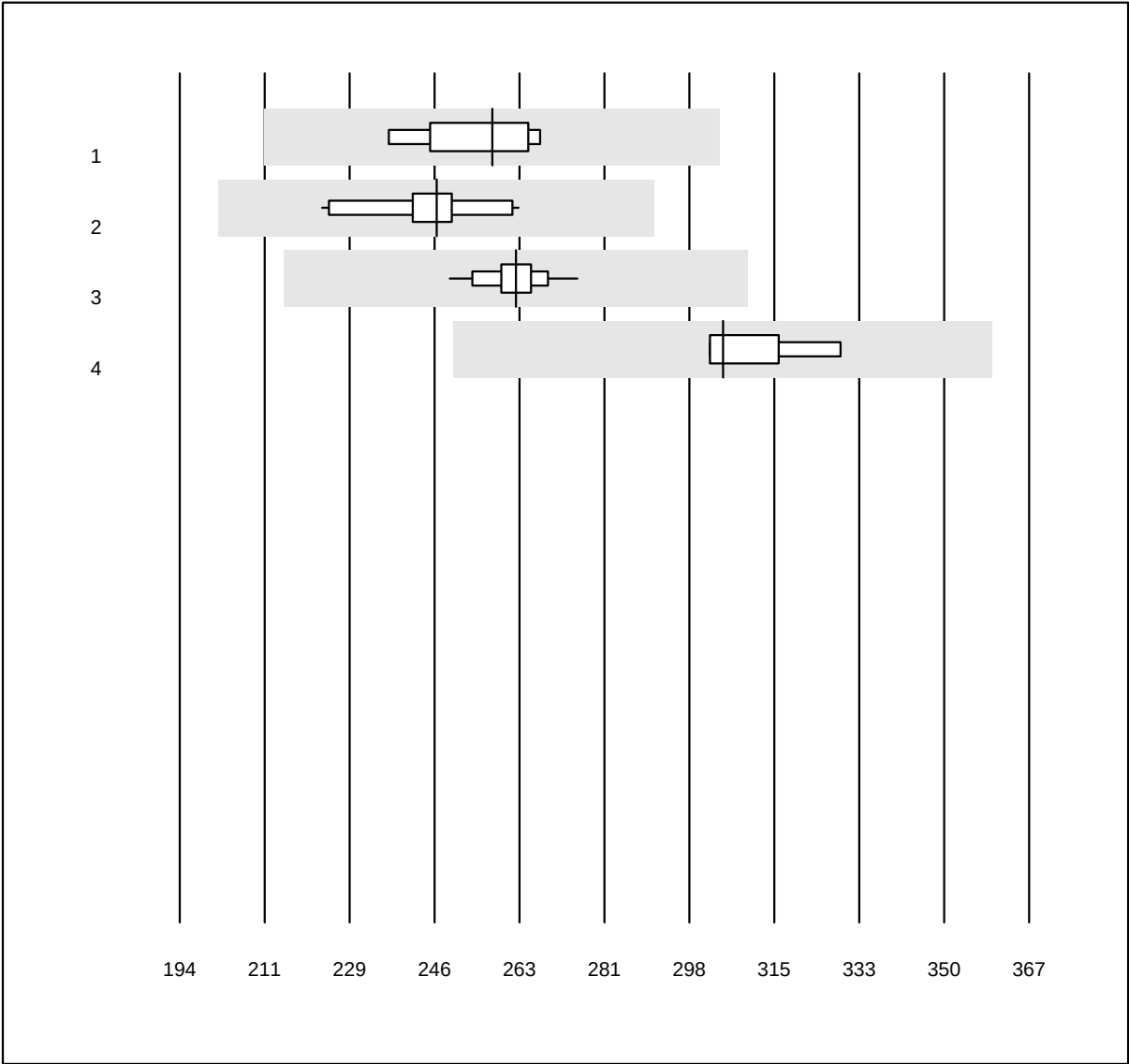
Amylase (U/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott             | 5     | 100.0 | 0.0       | 0.0       | 318          | 1.7  | e    |
| 2 Autolyser          | 10    | 100.0 | 0.0       | 0.0       | 283          | 5.8  | e    |
| 3 Fuji Dri-Chem      | 744   | 98.5  | 0.5       | 0.9       | 307          | 4.9  | e    |
| 4 Piccolo            | 53    | 94.3  | 0.0       | 5.7       | 190          | 3.8  | e    |
| 5 Roche              | 18    | 100.0 | 0.0       | 0.0       | 298          | 2.2  | e    |
| 6 Seamaty            | 6     | 100.0 | 0.0       | 0.0       | 286          | 7.9  | e*   |
| 7 Selectra Pro       | 9     | 88.9  | 0.0       | 11.1      | 245          | 4.6  | e    |
| 8 Spotchem D-Concept | 392   | 98.2  | 1.5       | 0.3       | 320          | 6.7  | e    |
| 9 Spotchem SP-4430   | 53    | 92.5  | 7.5       | 0.0       | 339          | 10.8 | e    |
| 10 Vitros            | 4     | 100.0 | 0.0       | 0.0       | 203          | 2.6  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)



Pancreatic amylase

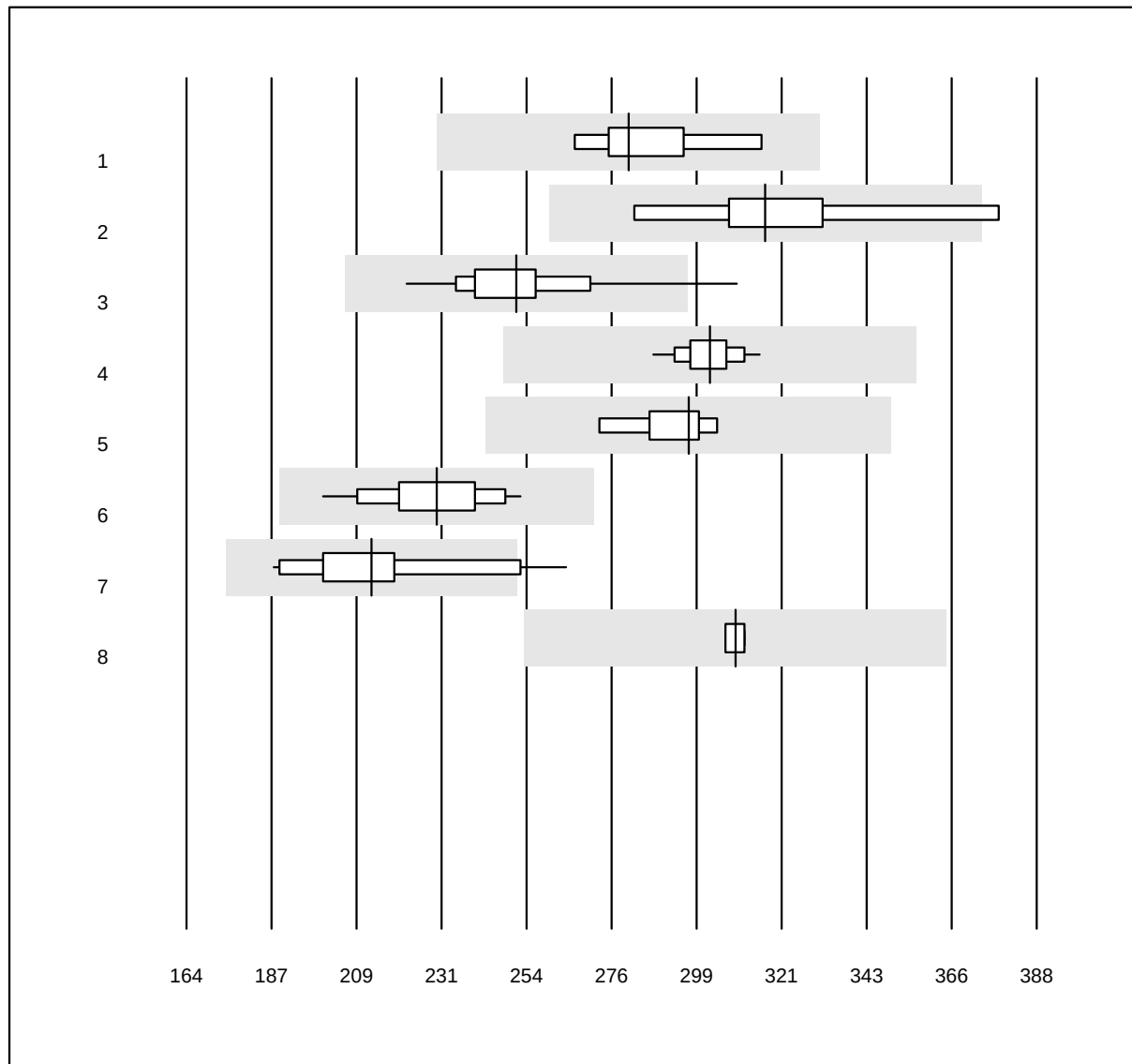


QUALAB Toleranz: 18%

Pancreatic amylase (U/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 7     | 100.0 | 0.0       | 0.0       | 258          | 4.2  | e    |
| 2 Autolyser | 10    | 100.0 | 0.0       | 0.0       | 246          | 4.2  | e    |
| 3 Roche     | 21    | 100.0 | 0.0       | 0.0       | 262          | 2.2  | e    |
| 4 Siemens   | 5     | 100.0 | 0.0       | 0.0       | 305          | 2.9  | e    |

## LDH



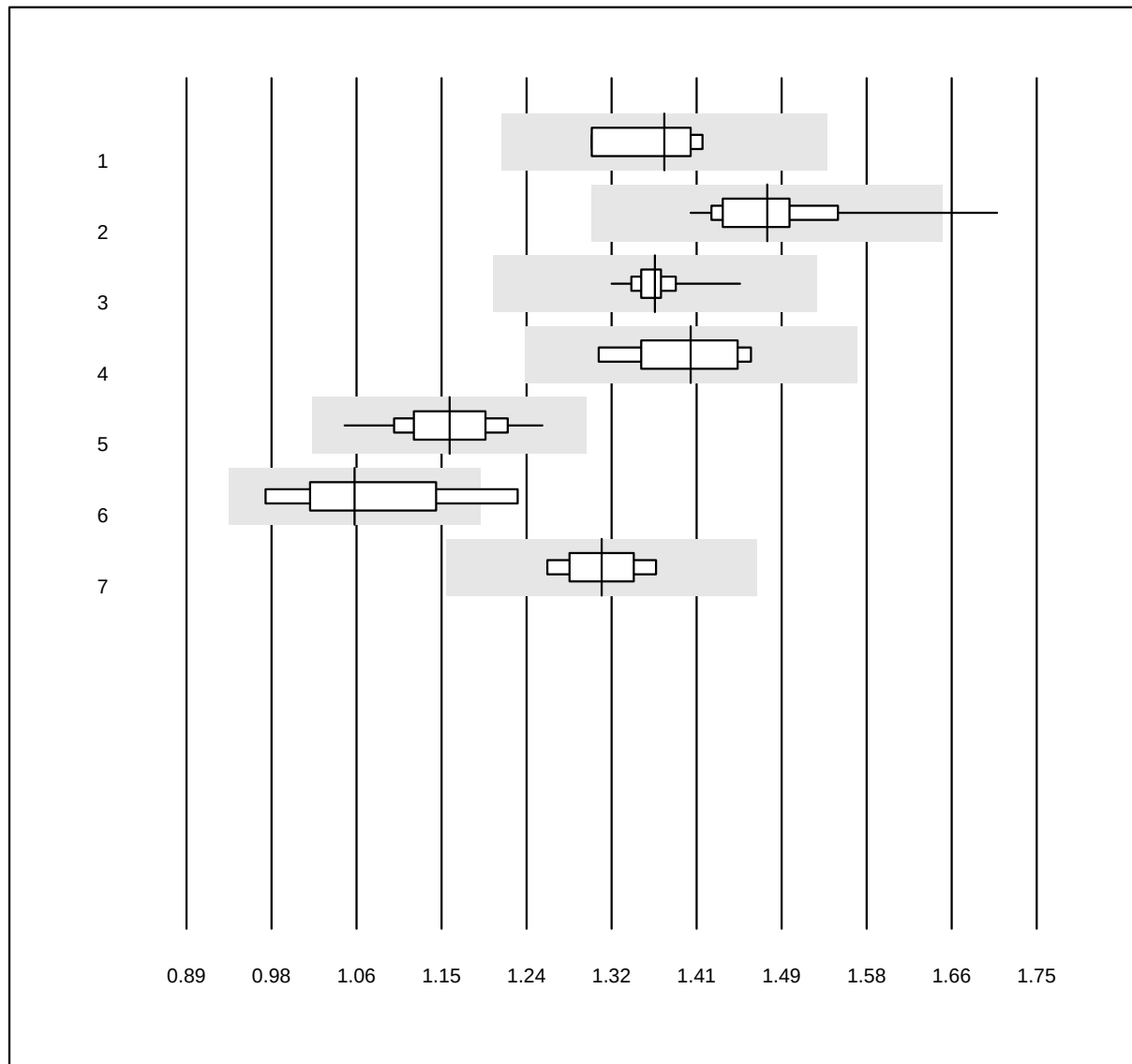
QUALAB Toleranz: 18%

LDH (U/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott             | 8     | 100.0 | 0.0       | 0.0       | 281          | 5.3  | e    |
| 2 Autolyser          | 9     | 88.9  | 11.1      | 0.0       | 316          | 8.3  | e*   |
| 3 Fuji Dri-Chem      | 107   | 96.3  | 1.9       | 1.9       | 251          | 6.2  | e    |
| 4 Roche              | 38    | 100.0 | 0.0       | 0.0       | 302          | 2.2  | e    |
| 5 Siemens            | 7     | 100.0 | 0.0       | 0.0       | 296          | 3.3  | e    |
| 6 Spotchem D-Concept | 40    | 97.5  | 0.0       | 2.5       | 230          | 5.9  | e    |
| 7 Spotchem SP-4430   | 12    | 91.7  | 8.3       | 0.0       | 213          | 9.3  | e*   |
| 8 Vitros             | 5     | 100.0 | 0.0       | 0.0       | 309          | 0.8  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Magnesium



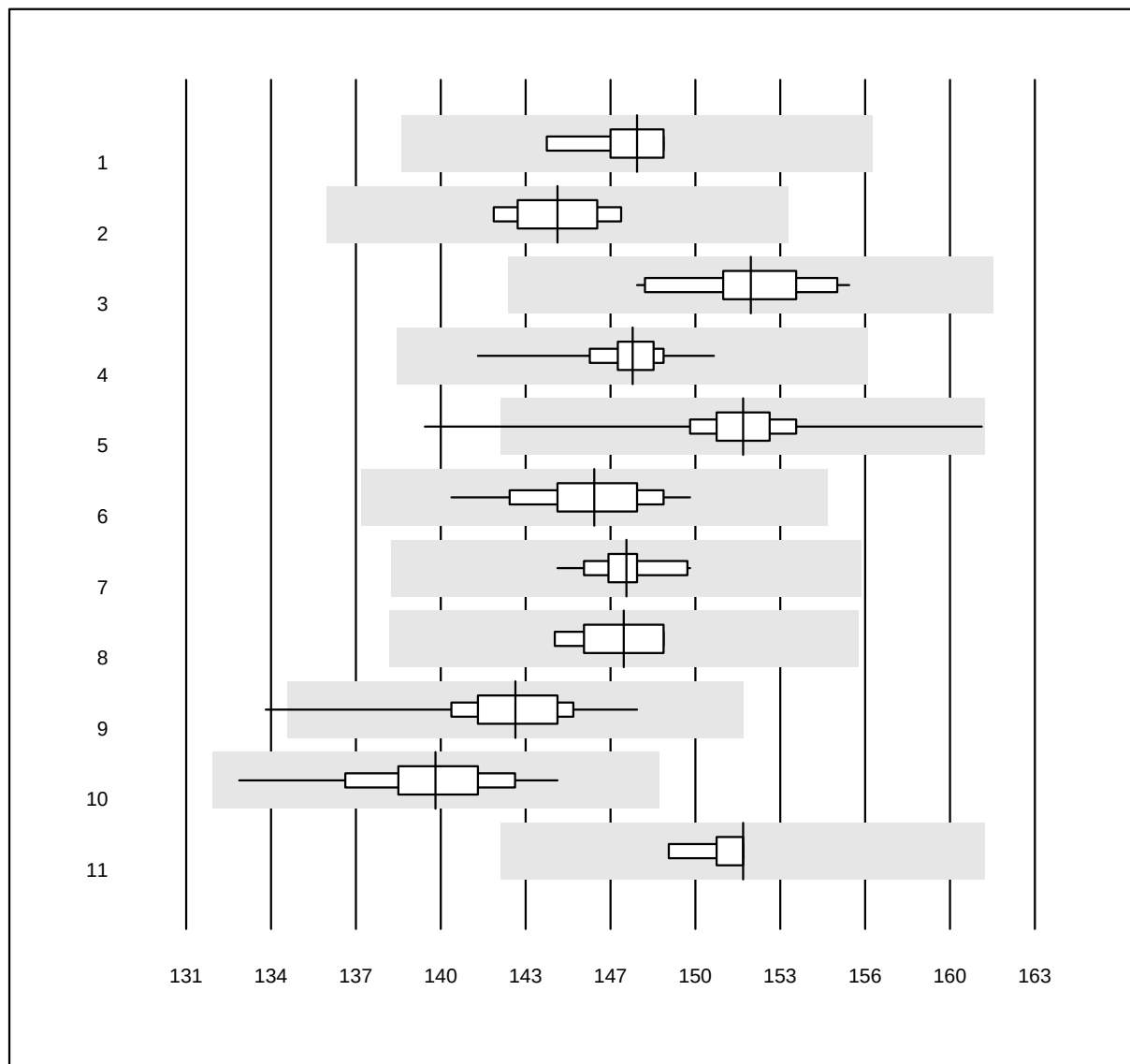
QUALAB Toleranz: 12%

Magnesium (mmol/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott             | 7     | 100.0 | 0.0       | 0.0       | 1.37         | 3.3  | e    |
| 2 Fuji Dri-Chem      | 62    | 95.2  | 1.6       | 3.2       | 1.48         | 3.8  | e    |
| 3 Roche              | 34    | 100.0 | 0.0       | 0.0       | 1.36         | 1.6  | e    |
| 4 Siemens            | 8     | 100.0 | 0.0       | 0.0       | 1.40         | 3.8  | e    |
| 5 Spotchem D-Concept | 34    | 100.0 | 0.0       | 0.0       | 1.16         | 3.8  | e    |
| 6 Spotchem SP-4430   | 4     | 100.0 | 0.0       | 0.0       | 1.06         | 6.6  | e*   |
| 7 Vitros             | 4     | 100.0 | 0.0       | 0.0       | 1.31         | 2.6  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

## Sodium 1



QUALAB Toleranz: 6%

Sodium (mmol/l)

| No. Methode            | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott               | 7     | 100.0 | 0.0       | 0.0       | 148          | 0.9  | e    |
| 2 Beckman              | 5     | 100.0 | 0.0       | 0.0       | 145          | 1.1  | e    |
| 3 Easy Electrolytes    | 12    | 100.0 | 0.0       | 0.0       | 152          | 1.5  | e    |
| 4 Exias                | 48    | 95.8  | 0.0       | 4.2       | 148          | 1.0  | e    |
| 5 Fuji Dri-Chem        | 1065  | 98.8  | 0.6       | 0.7       | 152          | 1.4  | e    |
| 6 Piccolo              | 31    | 100.0 | 0.0       | 0.0       | 146          | 1.5  | e    |
| 7 Roche                | 40    | 100.0 | 0.0       | 0.0       | 148          | 0.9  | e    |
| 8 Siemens              | 8     | 100.0 | 0.0       | 0.0       | 148          | 1.1  | e    |
| 9 Spotchem D-Concept   | 476   | 99.2  | 0.2       | 0.6       | 143          | 1.3  | e    |
| 10 Spotchem EL-SE 1520 | 57    | 96.5  | 0.0       | 3.5       | 140          | 1.8  | e    |
| 11 Vitros              | 5     | 100.0 | 0.0       | 0.0       | 152          | 0.6  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

Sodium 2



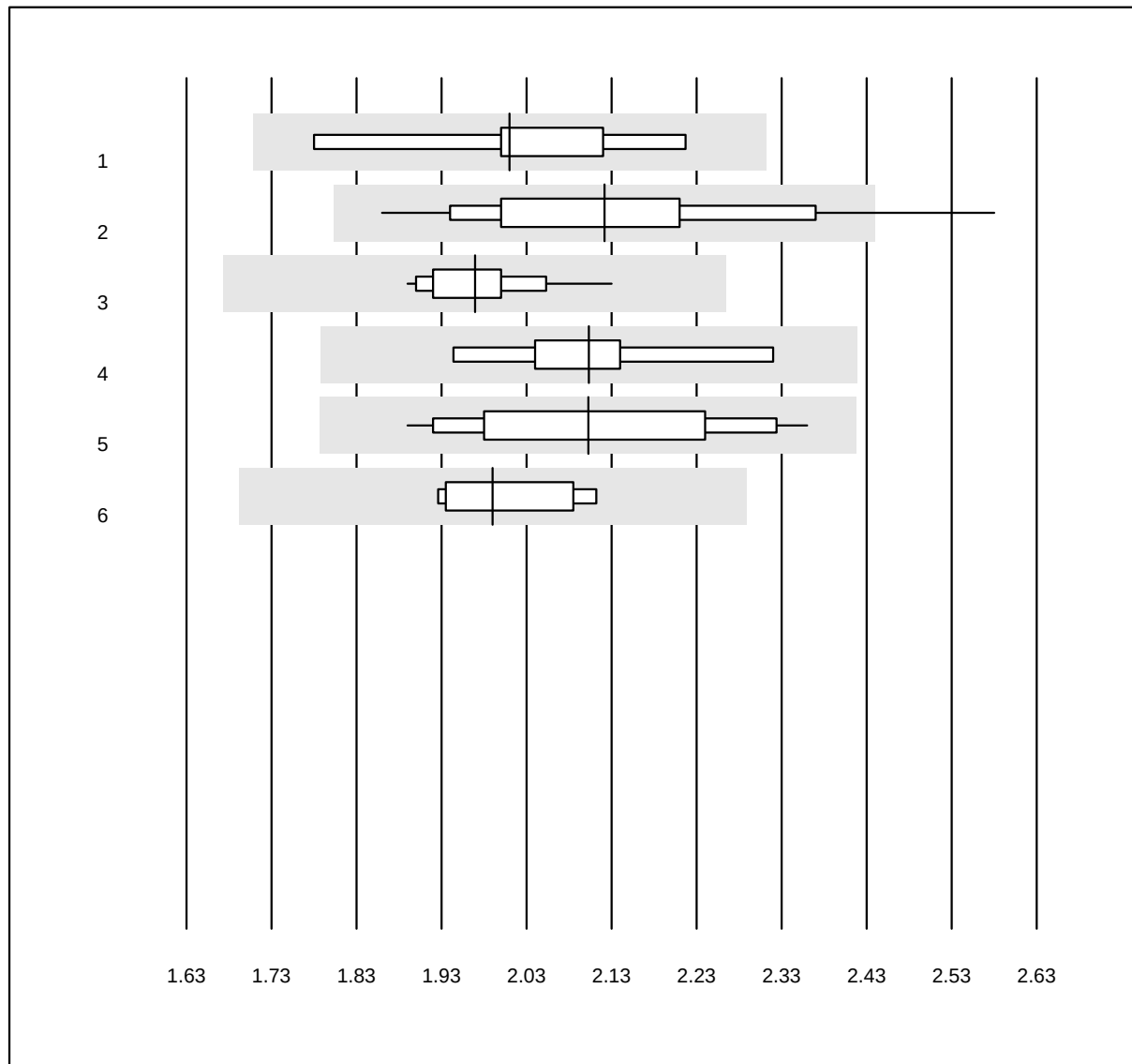
QUALAB Toleranz: 6%

Sodium (mmol/l)

| No. Methode    | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 iStat Chem8 | 11    | 100.0 | 0.0       | 0.0       | 147          | 0.9  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Phosphate



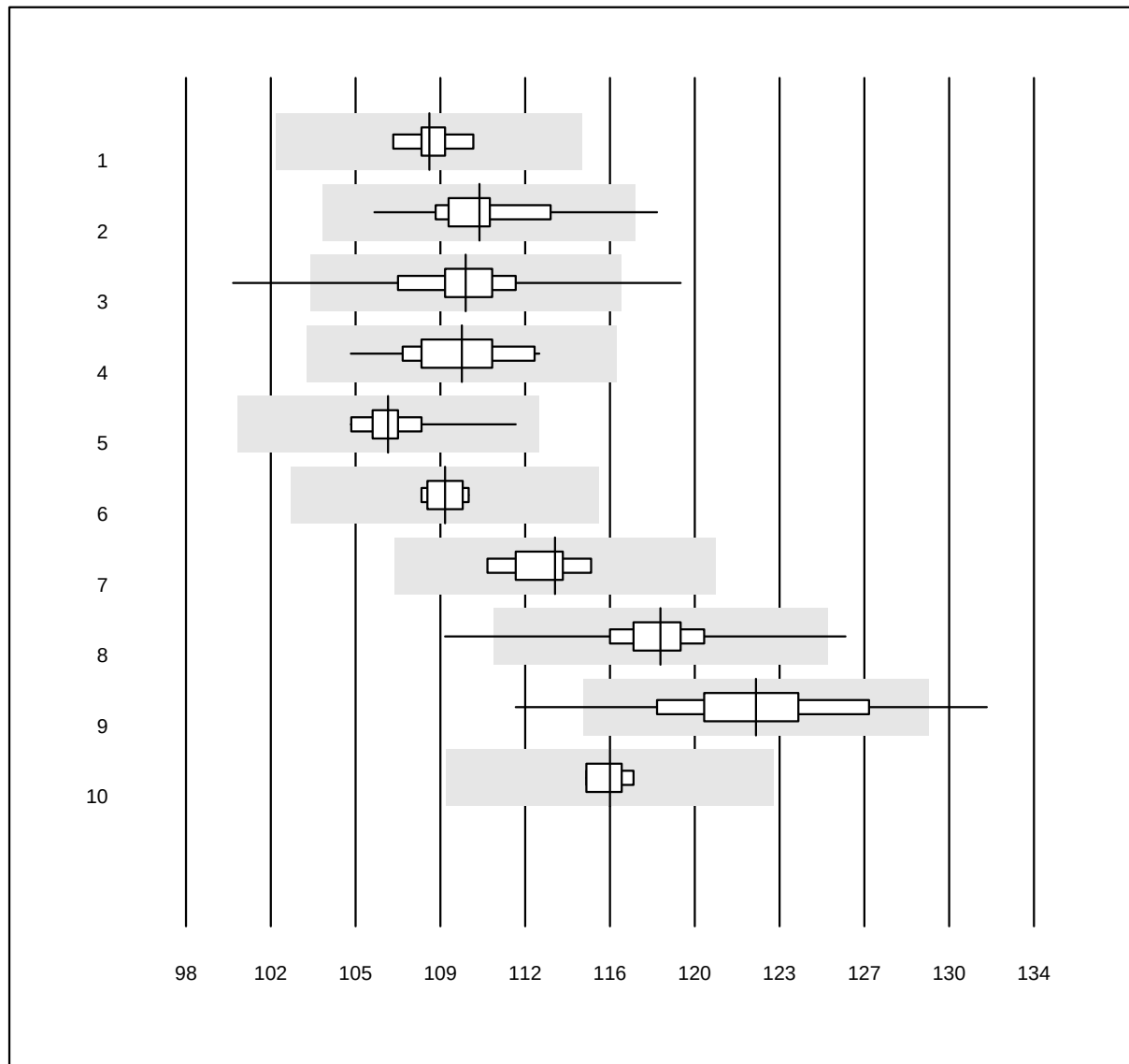
QUALAB Toleranz: 15%

Phosphate (mmol/l)

| No. Methode          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott             | 8     | 100.0 | 0.0       | 0.0       | 2.0          | 5.9  | e*   |
| 2 Fuji Dri-Chem      | 67    | 88.1  | 7.5       | 4.5       | 2.1          | 7.5  | e    |
| 3 Roche              | 36    | 100.0 | 0.0       | 0.0       | 2.0          | 3.0  | e    |
| 4 Siemens            | 7     | 100.0 | 0.0       | 0.0       | 2.1          | 4.8  | e*   |
| 5 Spotchem D-Concept | 15    | 100.0 | 0.0       | 0.0       | 2.1          | 6.8  | e    |
| 6 Vitros             | 5     | 100.0 | 0.0       | 0.0       | 2.0          | 4.0  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

## Chloride



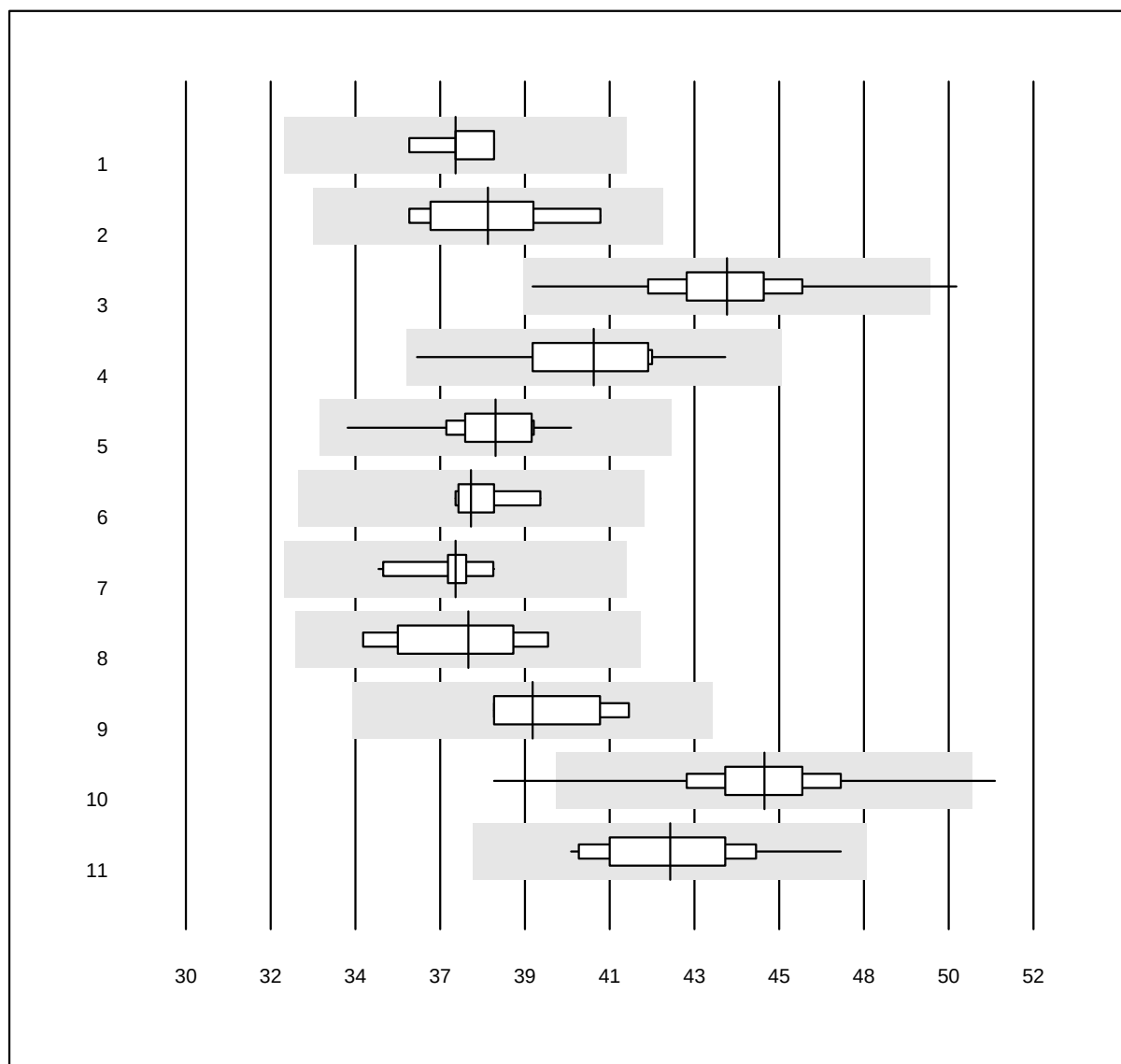
QUALAB Toleranz: 6%

Chloride (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 108          | 0.9  | e    |
| 2 Exias               | 40    | 90.0  | 2.5       | 7.5       | 110          | 2.0  | e    |
| 3 Fuji Dri-Chem       | 982   | 97.9  | 0.8       | 1.3       | 110          | 1.9  | e    |
| 4 Piccolo             | 21    | 100.0 | 0.0       | 0.0       | 110          | 1.9  | e    |
| 5 Roche               | 30    | 100.0 | 0.0       | 0.0       | 107          | 1.3  | e    |
| 6 Siemens             | 8     | 100.0 | 0.0       | 0.0       | 109          | 0.7  | e    |
| 7 Skyla               | 7     | 100.0 | 0.0       | 0.0       | 114          | 1.2  | e    |
| 8 Spotchem D-Concept  | 429   | 97.4  | 0.7       | 1.9       | 118          | 1.5  | e    |
| 9 Spotchem EL-SE 1520 | 52    | 90.4  | 5.8       | 3.8       | 122          | 3.2  | e    |
| 10 iStat Chem8        | 9     | 100.0 | 0.0       | 0.0       | 116          | 0.7  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Albumine 1



QUALAB Toleranz: 12%

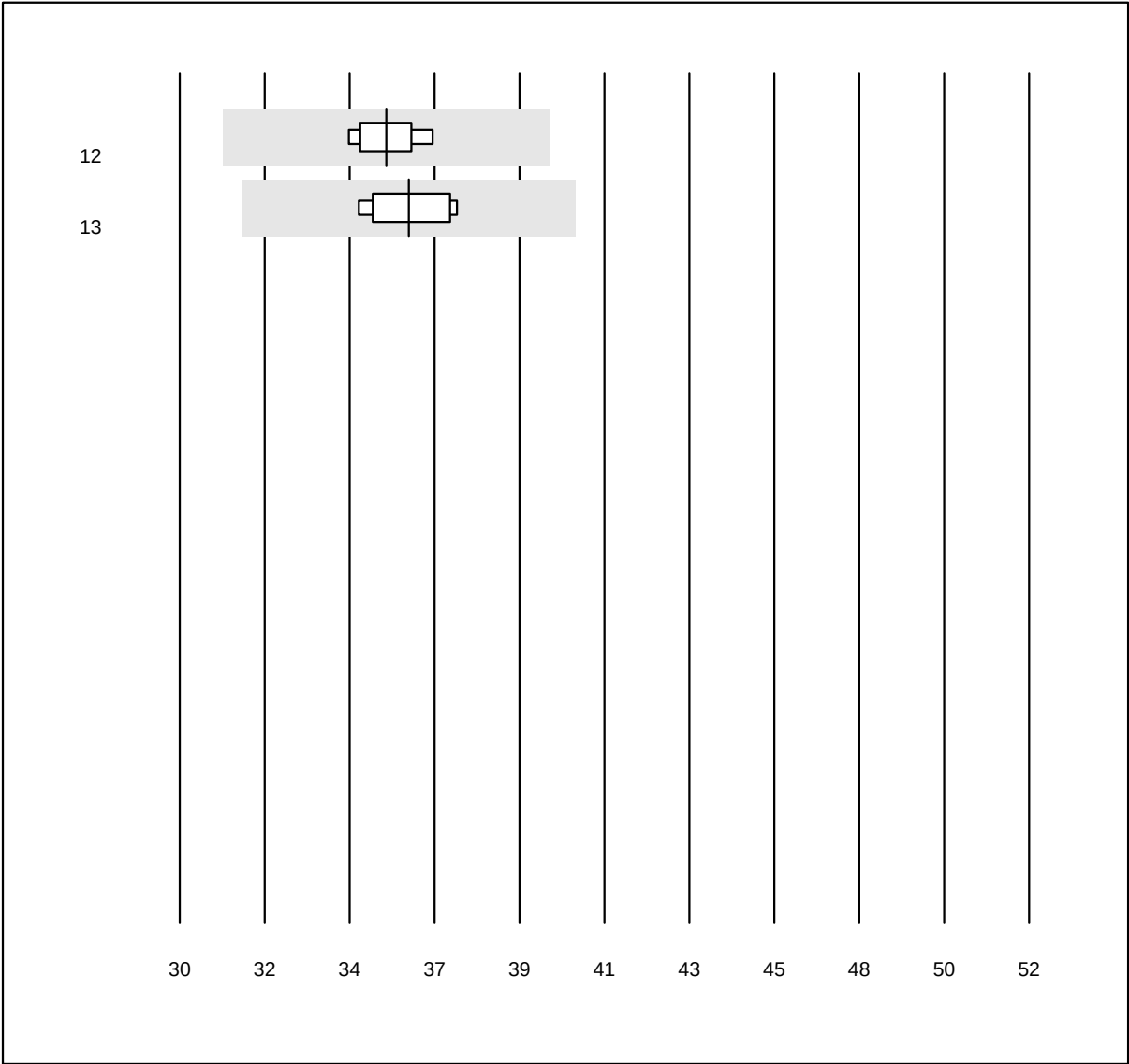
Albumine (g/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 37.0         | 1.9  | e    |
| 2 Autolyser           | 9     | 100.0 | 0.0       | 0.0       | 37.8         | 4.3  | e    |
| 3 Fuji Dri-Chem       | 257   | 99.6  | 0.4       | 0.0       | 44.0         | 4.3  | e    |
| 4 Piccolo             | 59    | 98.3  | 0.0       | 1.7       | 40.6         | 3.9  | e    |
| 5 Roche               | 36    | 100.0 | 0.0       | 0.0       | 38.0         | 3.2  | e    |
| 6 Seamaty             | 10    | 100.0 | 0.0       | 0.0       | 37.4         | 2.2  | e    |
| 7 Selectra Pro        | 10    | 100.0 | 0.0       | 0.0       | 37.0         | 2.3  | e    |
| 8 Siemens             | 5     | 100.0 | 0.0       | 0.0       | 37.3         | 4.4  | e*   |
| 9 Skyla               | 4     | 100.0 | 0.0       | 0.0       | 39.0         | 3.8  | e*   |
| 10 Spotchem D-Concept | 230   | 98.7  | 0.9       | 0.4       | 45.0         | 4.3  | e    |
| 11 Spotchem SP-4430   | 21    | 100.0 | 0.0       | 0.0       | 42.6         | 4.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)



Albumine 2



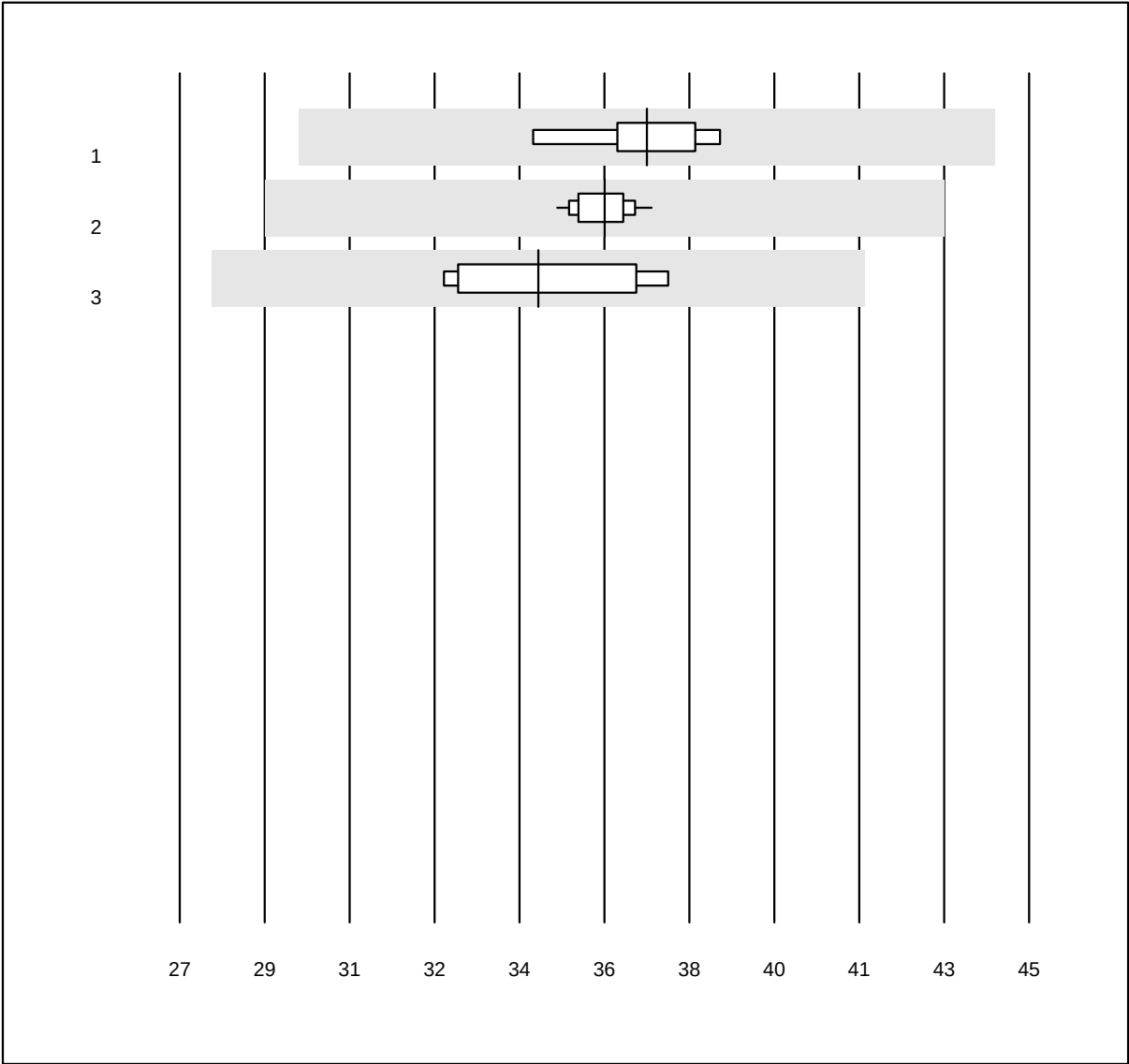
QUALAB Toleranz: 12%

Albumine (g/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 12 Turbidimetrie | 8     | 100.0 | 0.0       | 0.0       | 35.4         | 2.2  | e    |
| 13 Vitros        | 5     | 100.0 | 0.0       | 0.0       | 35.9         | 2.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Iron



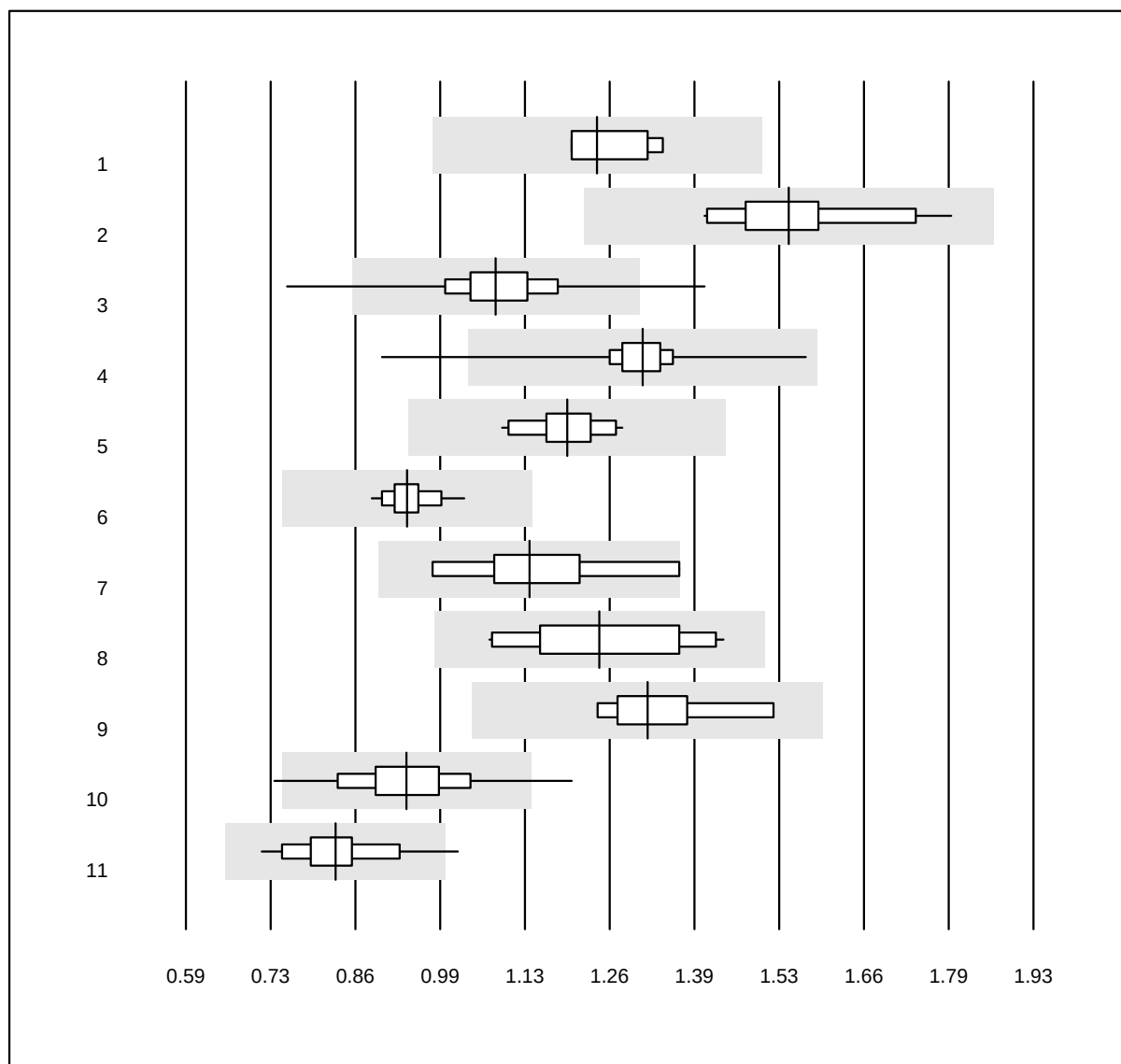
QUALAB Toleranz: 20%

Iron (µmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 6     | 100.0 | 0.0       | 0.0       | 37           | 3.1  | e    |
| 2 Roche     | 24    | 100.0 | 0.0       | 0.0       | 36           | 1.5  | e    |
| 3 Siemens   | 4     | 100.0 | 0.0       | 0.0       | 35           | 5.9  | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Cholesterin HDL



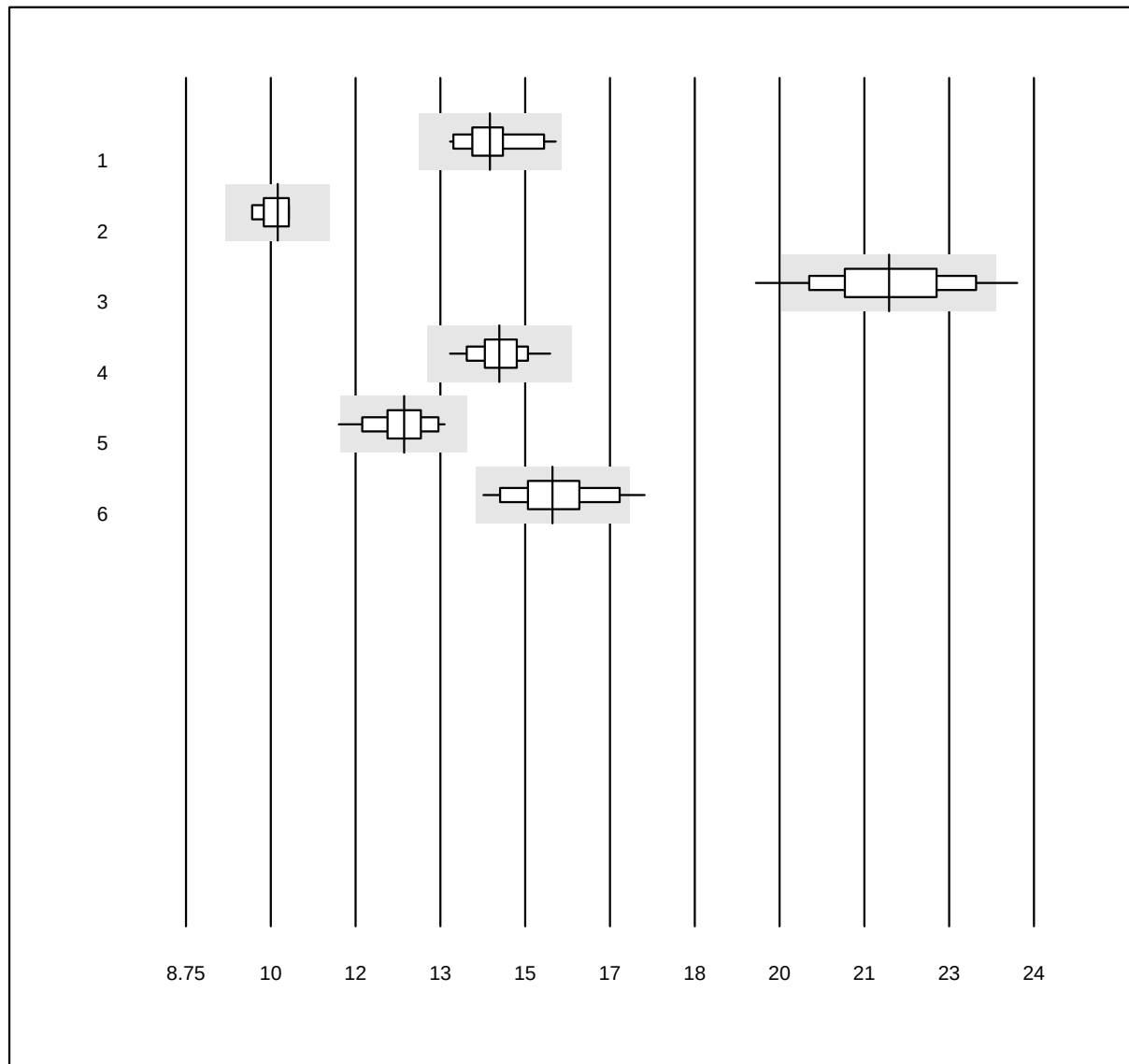
QUALAB Toleranz: 21%

Cholesterin HDL (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 1.24         | 4.6  | e    |
| 2 Autolyser           | 22    | 95.5  | 0.0       | 4.5       | 1.54         | 6.7  | e    |
| 3 Cholestech LDX      | 235   | 96.2  | 2.1       | 1.7       | 1.08         | 7.5  | e    |
| 4 Fuji Dri-Chem       | 988   | 98.7  | 0.1       | 1.2       | 1.31         | 3.4  | e    |
| 5 Piccolo             | 19    | 100.0 | 0.0       | 0.0       | 1.19         | 4.5  | e    |
| 6 Roche               | 32    | 100.0 | 0.0       | 0.0       | 0.94         | 3.7  | e    |
| 7 Seamaty             | 10    | 100.0 | 0.0       | 0.0       | 1.13         | 11.6 | e*   |
| 8 Selectra Pro        | 11    | 100.0 | 0.0       | 0.0       | 1.24         | 10.0 | e*   |
| 9 Siemens             | 6     | 100.0 | 0.0       | 0.0       | 1.32         | 6.0  | e    |
| 10 Spotchem D-Concept | 468   | 97.0  | 1.9       | 1.1       | 0.94         | 8.7  | e    |
| 11 Spotchem SP-4430   | 70    | 98.6  | 1.4       | 0.0       | 0.83         | 8.0  | e    |

5 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Glucose B

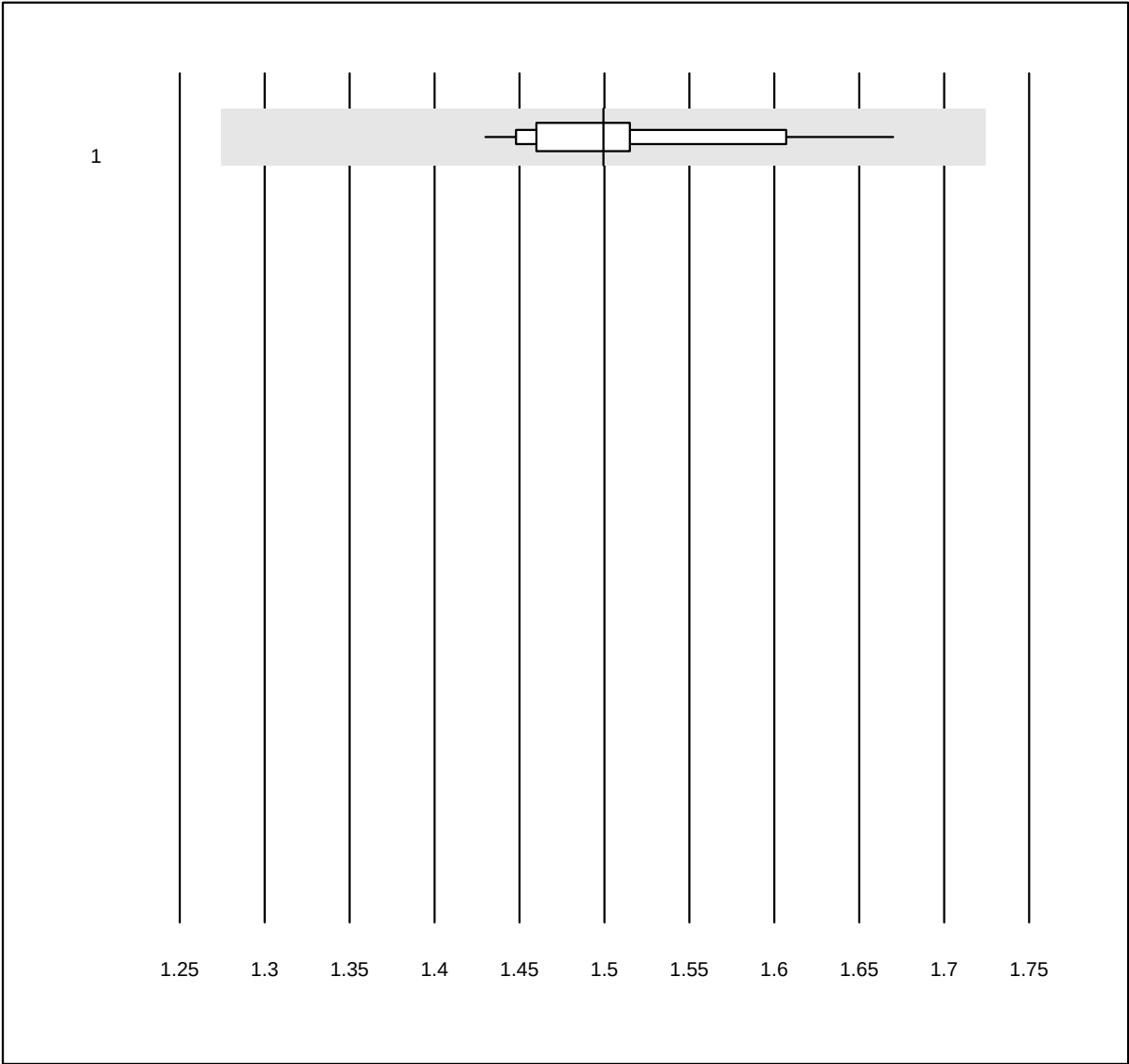


QUALAB Toleranz: 9%

Glucose B (mmol/l)

| No. Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alpha Check    | 14    | 85.7  | 0.0       | 14.3      | 14.2         | 3.5  | e    |
| 2 Contour 2 (5s) | 6     | 100.0 | 0.0       | 0.0       | 10.4         | 2.3  | e    |
| 3 Healthpro      | 24    | 79.2  | 8.3       | 12.5      | 21.4         | 5.3  | e    |
| 4 Mylife UNIO    | 112   | 100.0 | 0.0       | 0.0       | 14.4         | 2.9  | e    |
| 5 OneTouch Verio | 30    | 96.7  | 3.3       | 0.0       | 12.7         | 3.8  | e    |
| 6 mylife Pura    | 34    | 94.1  | 5.9       | 0.0       | 15.3         | 4.8  | e    |

Lithium



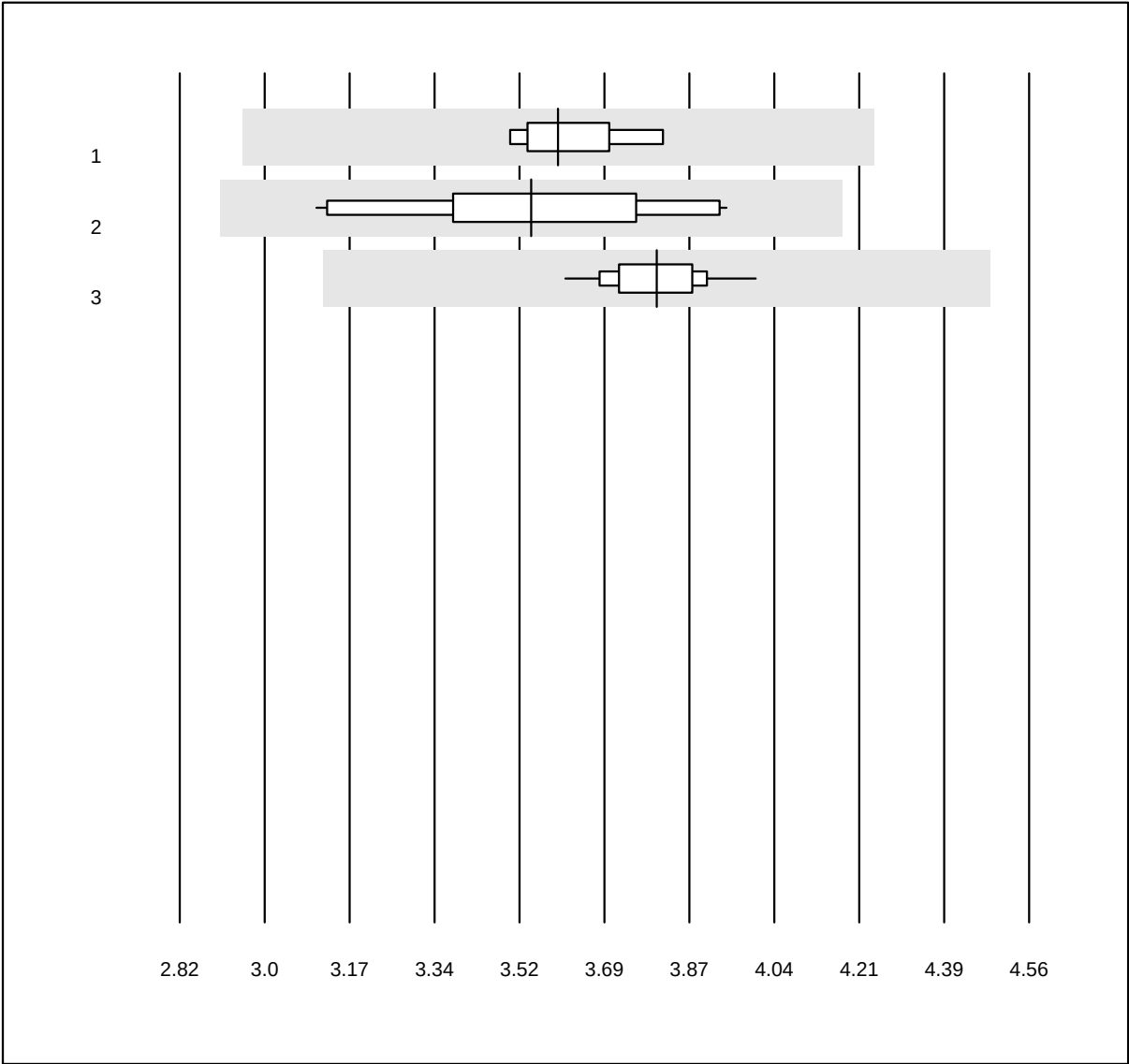
QUALAB Toleranz: 15%

Lithium (mmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 18    | 100.0 | 0.0       | 0.0       | 1.50         | 4.0  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Cholesterol LDL



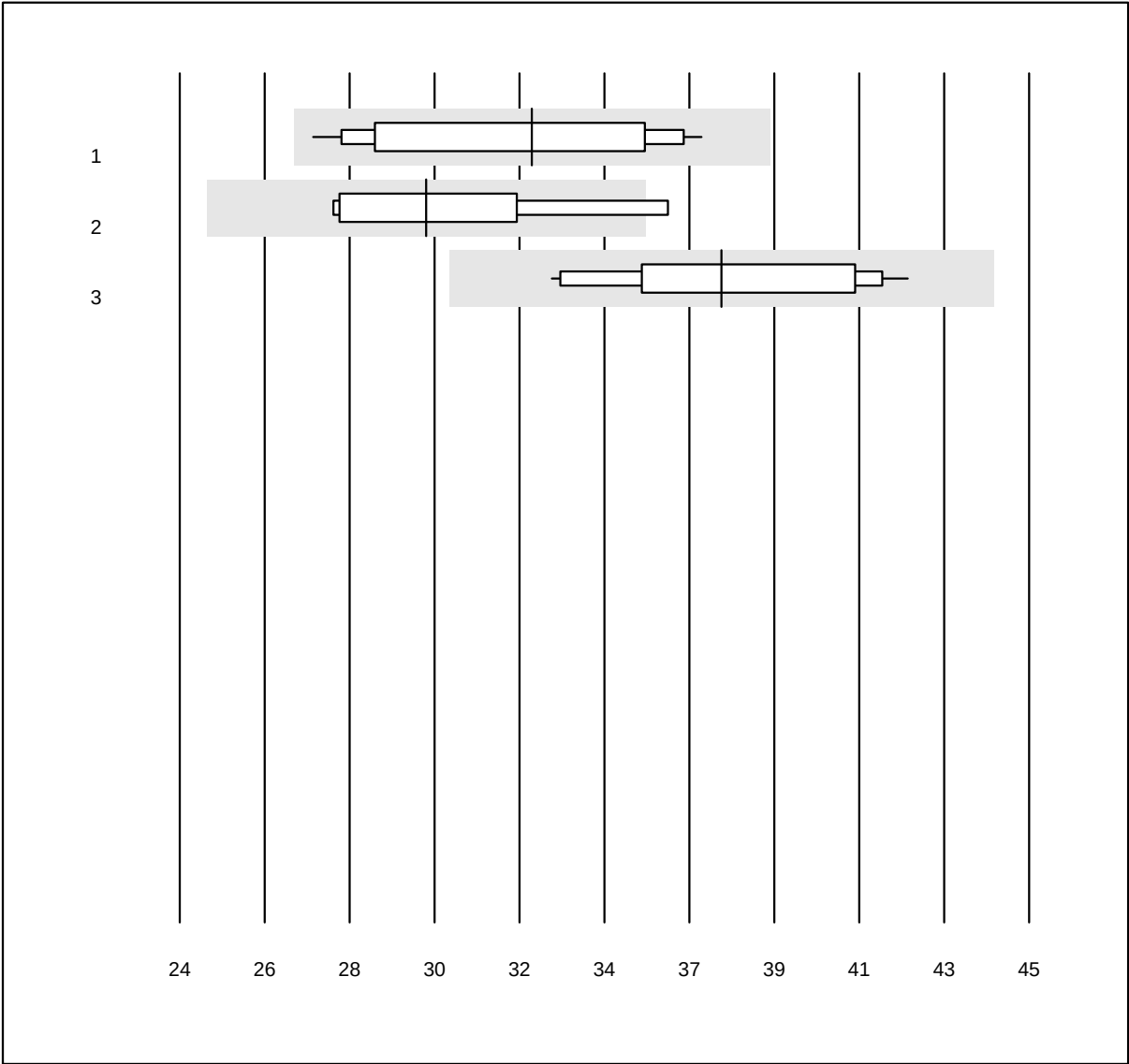
QUALAB Toleranz: 18%

Cholesterol LDL (mmol/l)

| No. Methode    | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott       | 8     | 100.0 | 0.0       | 0.0       | 3.6          | 2.9  | e    |
| 2 Autolyser    | 10    | 100.0 | 0.0       | 0.0       | 3.5          | 7.0  | e*   |
| 3 Roche, Cobas | 25    | 100.0 | 0.0       | 0.0       | 3.8          | 2.3  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

Bilirubin direct



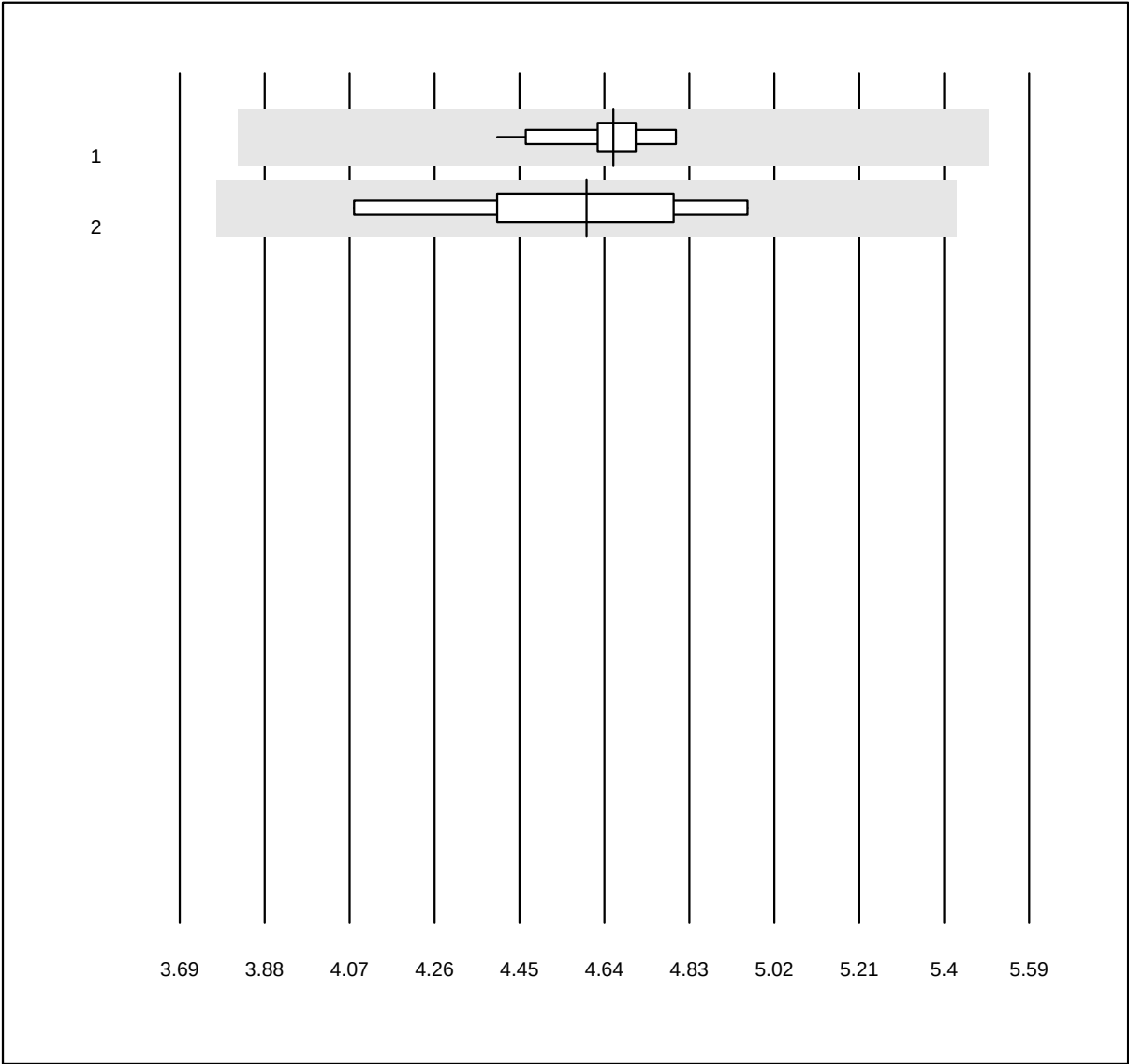
MQ Toleranz: 18%

Bilirubin direct (µmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Fuji Dri-Chem   | 24    | 83.3  | 0.0       | 16.7      | 32.7         | 10.0 | e    |
| 2 Vitros          | 4     | 100.0 | 0.0       | 0.0       | 30.1         | 9.2  | e*   |
| 3 andere Methoden | 16    | 100.0 | 0.0       | 0.0       | 37.4         | 7.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Lactate



QUALAB Toleranz: 18%

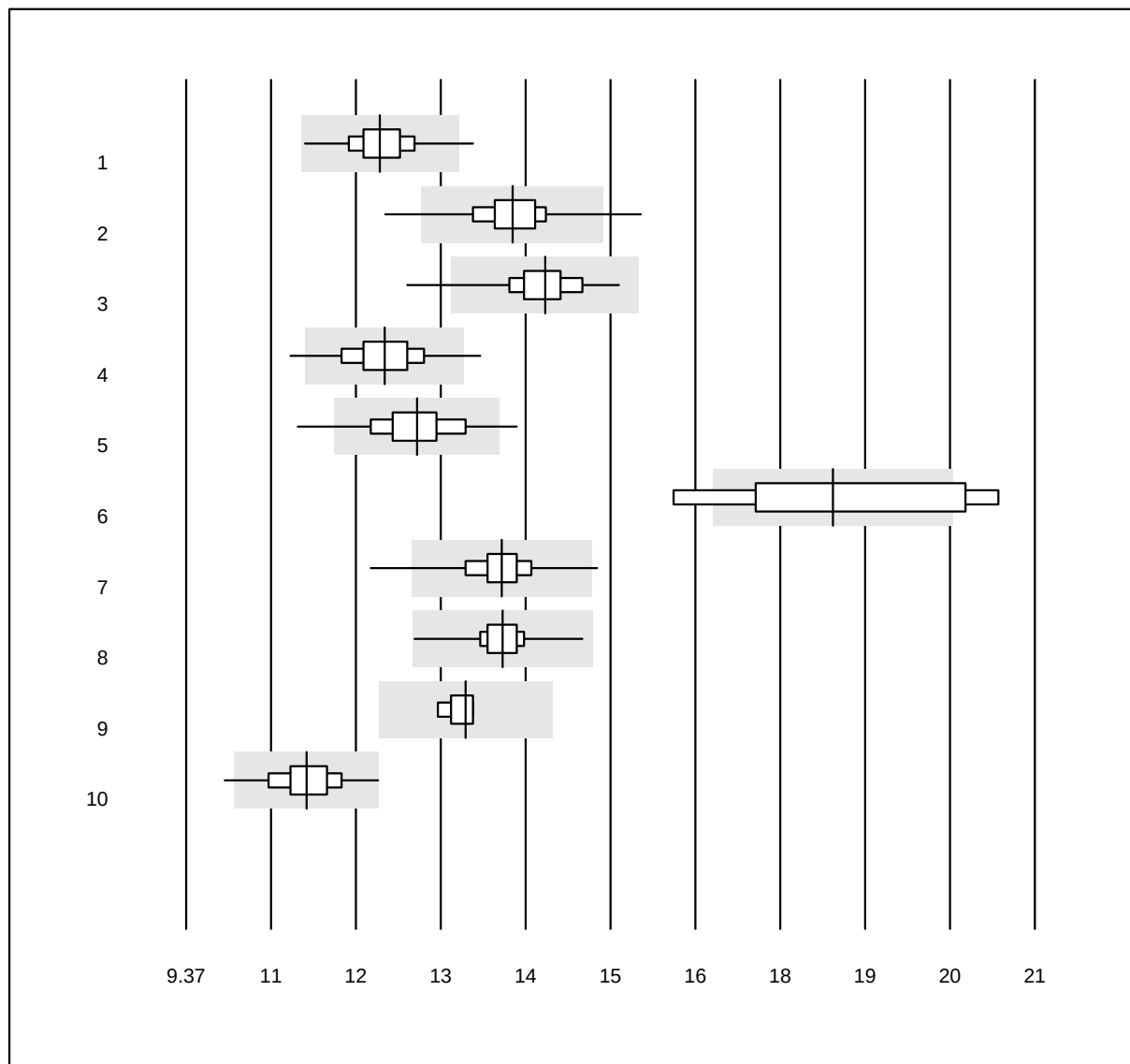
Lactate (mmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 17    | 100.0 | 0.0       | 0.0       | 4.66         | 2.2  | e    |
| 2 andere Methoden | 9     | 100.0 | 0.0       | 0.0       | 4.60         | 6.0  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



## Glucose



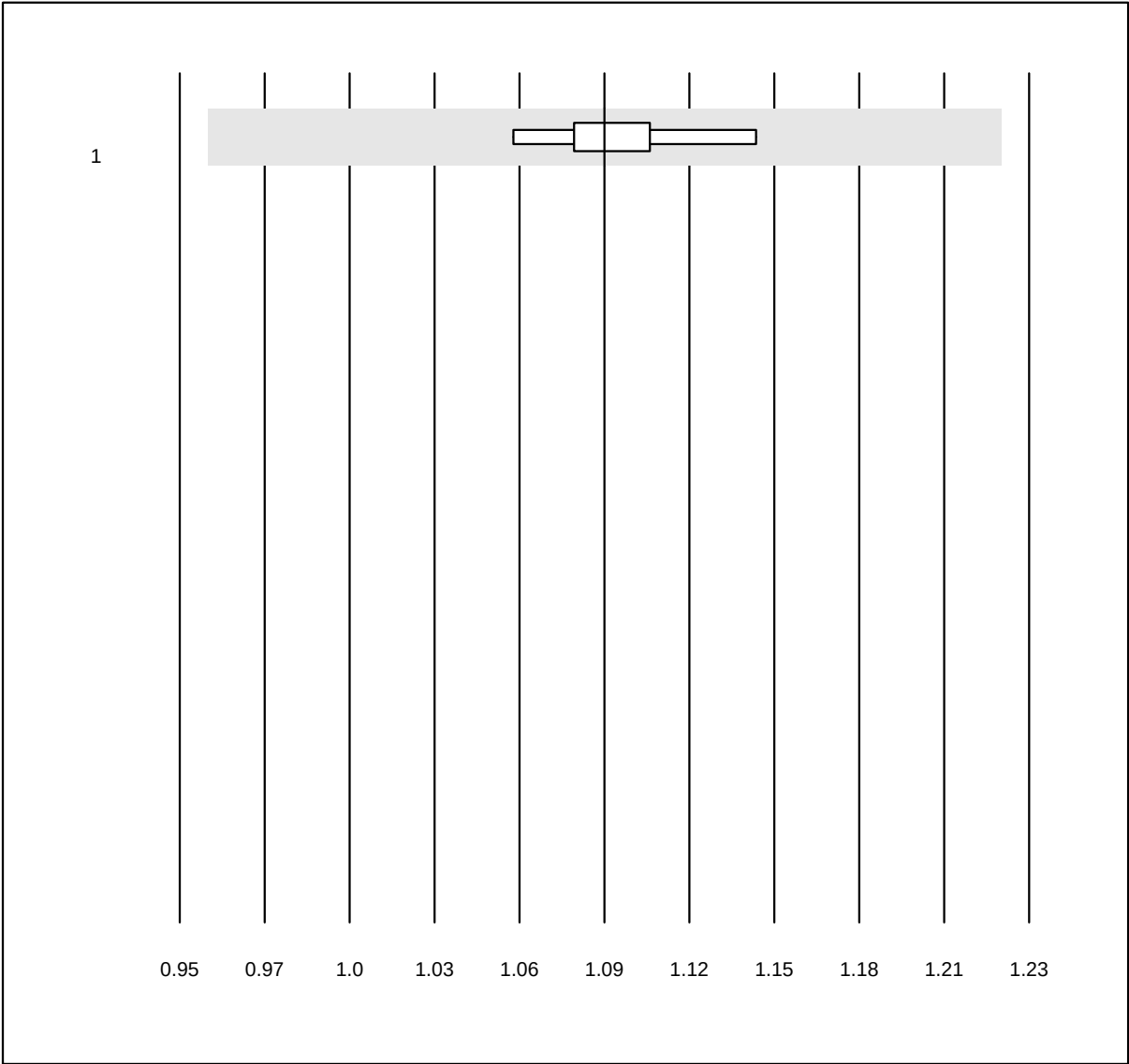
QUALAB Toleranz: 9%

Glucose (mmol/l)

| No. Methode             | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Accu-Check Guide      | 365   | 97.5  | 0.8       | 1.6       | 12.0         | 3.0  | e    |
| 2 Accu-Chek Aviva       | 94    | 92.6  | 4.3       | 3.2       | 13.8         | 3.4  | e    |
| 3 Accu-Chek Inform 2    | 929   | 99.8  | 0.2       | 0.0       | 14.3         | 2.6  | e    |
| 4 Accu-Chek Instant     | 134   | 90.3  | 3.7       | 6.0       | 12.1         | 3.8  | e    |
| 5 Contour NEXT/XT       | 1505  | 97.5  | 1.7       | 0.8       | 12.5         | 3.7  | e    |
| 6 Glucocard             | 7     | 42.9  | 14.3      | 42.9      | 18.2         | 8.1  | e*   |
| 7 Hemocue 201+ P-equiv  | 150   | 95.3  | 1.3       | 3.3       | 13.7         | 2.9  | e    |
| 8 Hemocue 201RT P-equiv | 145   | 97.2  | 0.0       | 2.8       | 13.7         | 2.2  | e    |
| 9 Skyla                 | 5     | 100.0 | 0.0       | 0.0       | 13.2         | 1.3  | e    |
| 10 Statstrip/Xpress     | 106   | 99.1  | 0.9       | 0.0       | 11.0         | 3.4  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

Calcium ISE

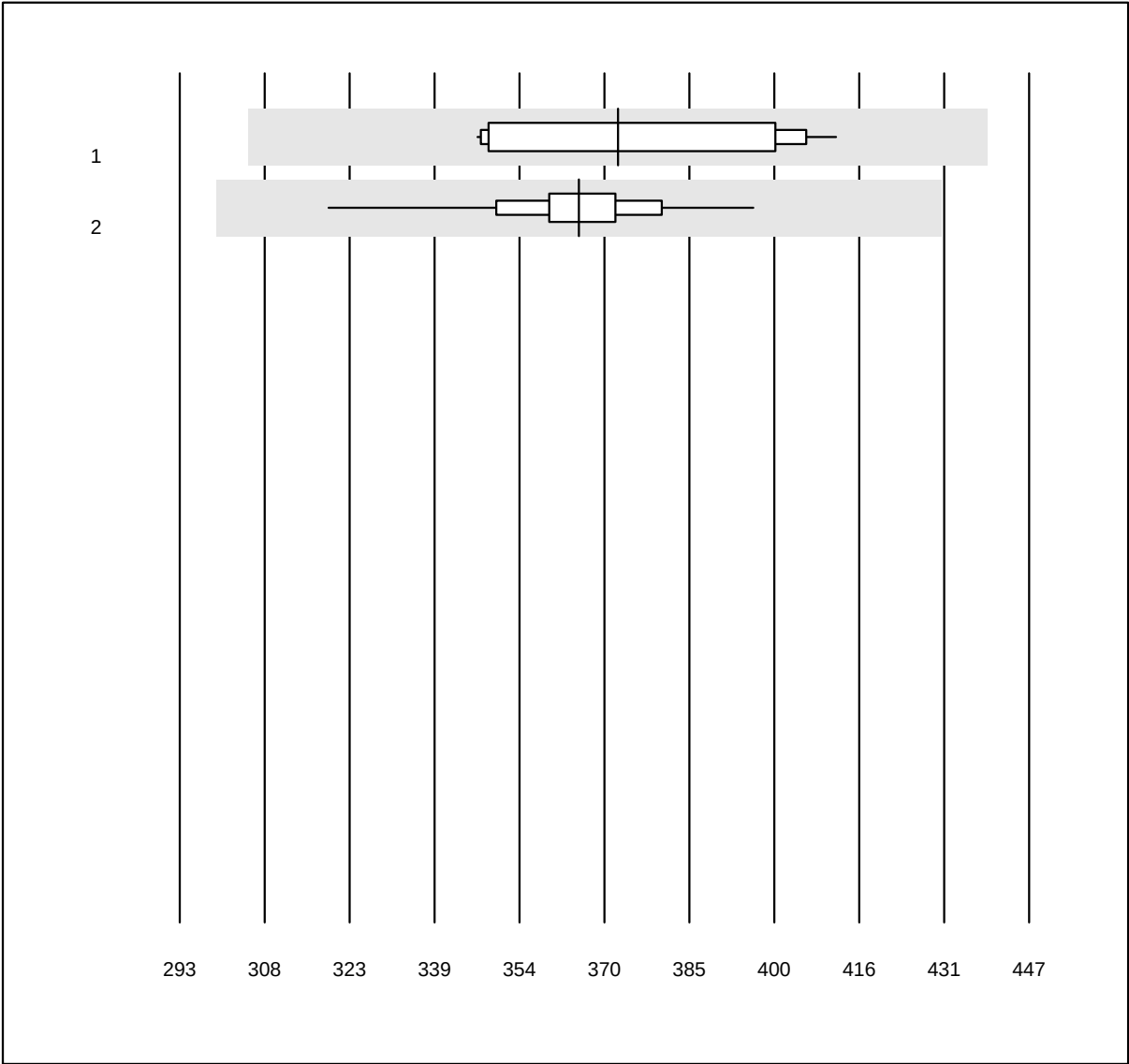


MQ Toleranz: 12%

Calcium ISE (mmol/l)

| No. Methode                                                                                                           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 iStat Chem8                                                                                                         | 9     | 100.0 | 0.0       | 0.0       | 1.09         | 2.0  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |       |       |           |           |              |      |      |

Creatinine E

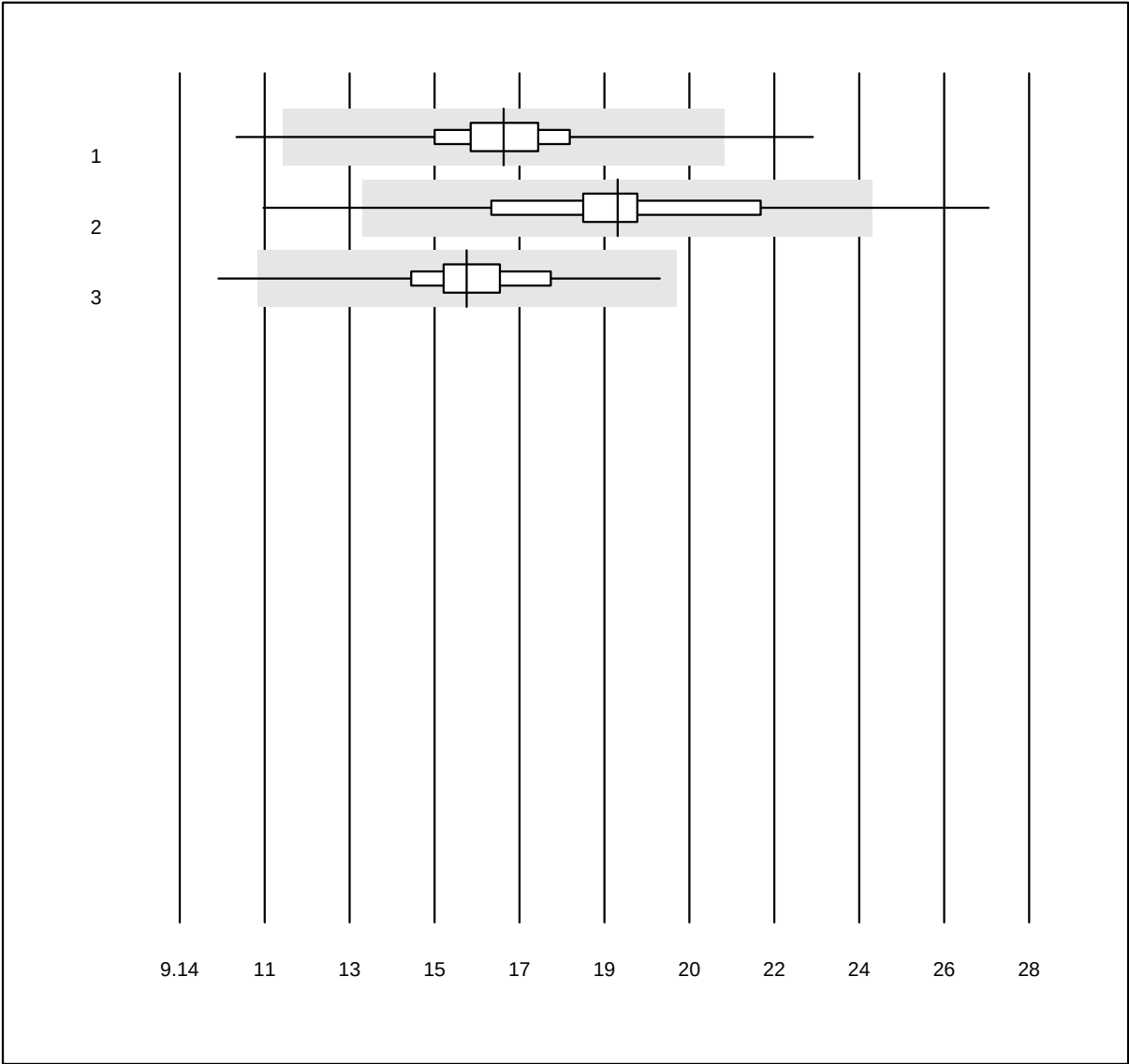


QUALAB Toleranz: 18%

Creatinine E (μmol/l)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800  | 16    | 93.8  | 0.0       | 6.2       | 372          | 6.6  | e    |
| 2 iStat Chem8 | 43    | 100.0 | 0.0       | 0.0       | 365          | 3.7  | e    |

eGFR CKD-EPI

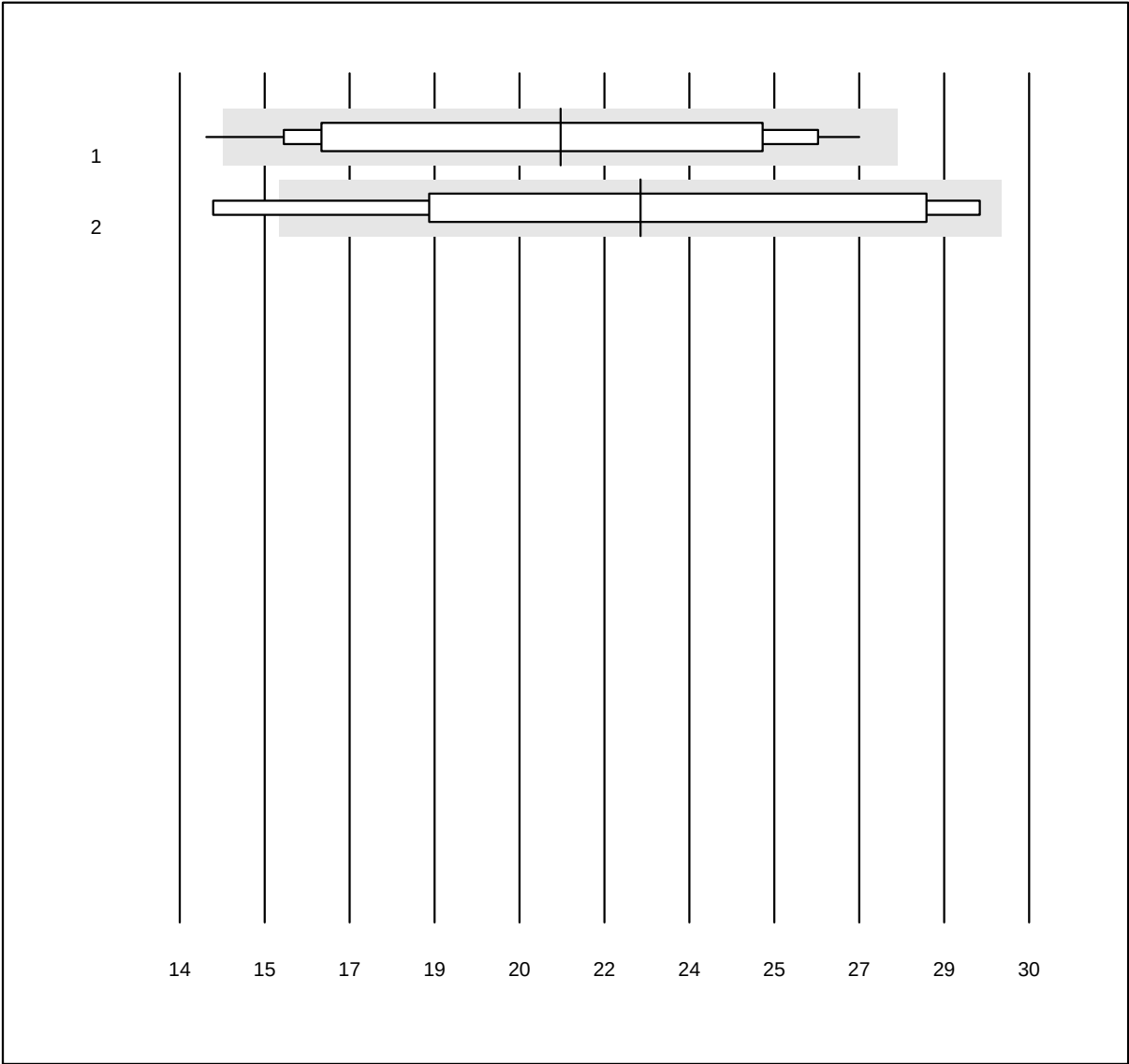


MQ Toleranz: 30%

eGFR CKD-EPI ()

| No. Methode     | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Fuji Dri-Chem | 396   | 90.7 | 2.5       | 6.8       | 16           | 10.3 | e    |
| 2 Spotchem      | 249   | 89.6 | 7.6       | 2.8       | 19           | 14.1 | e    |
| 3 nasschemisch  | 53    | 98.1 | 1.9       | 0.0       | 16           | 9.6  | e    |

eGFR Cockcroft-Gault



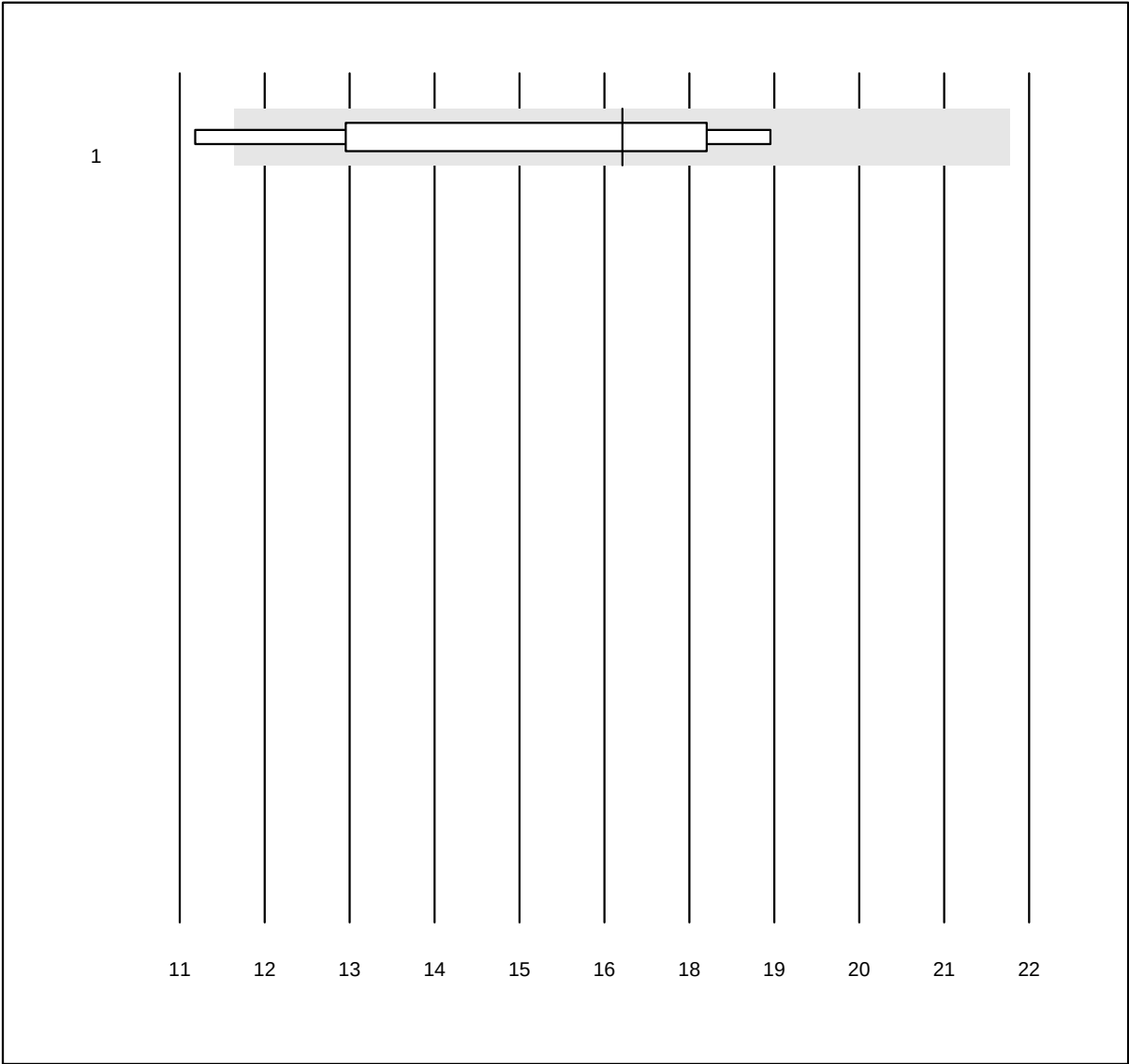
MQ Toleranz: 30%

eGFR Cockcroft-Gault ()

| No. Methode     | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Fuji Dri-Chem | 33    | 90.9 | 3.0       | 6.1       | 21           | 19.9 | e    |
| 2 Spotchem      | 8     | 87.5 | 12.5      | 0.0       | 23           | 23.9 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

eGFR MDRD

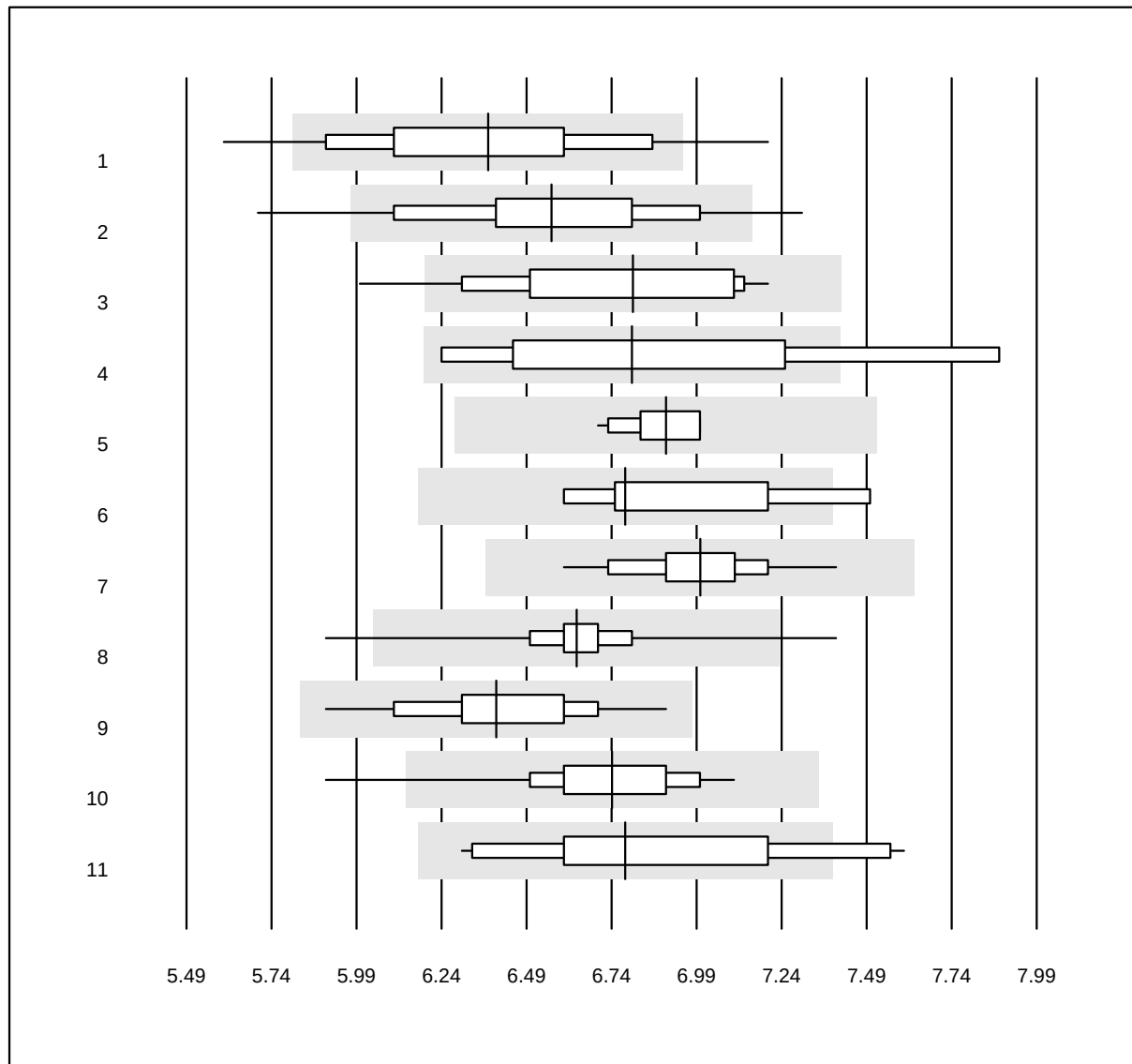


MQ Toleranz: 30%

eGFR MDRD ()

| No. Methode                                                                                                           |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | Fuji Dri-Chem | 5     | 80.0 | 0.0       | 20.0      | 17           | 15.6 | e*   |
| 2 additional results were submitted but not published because the method groups were too small. (< results per group) |               |       |      |           |           |              |      |      |

## HbA1c sample A



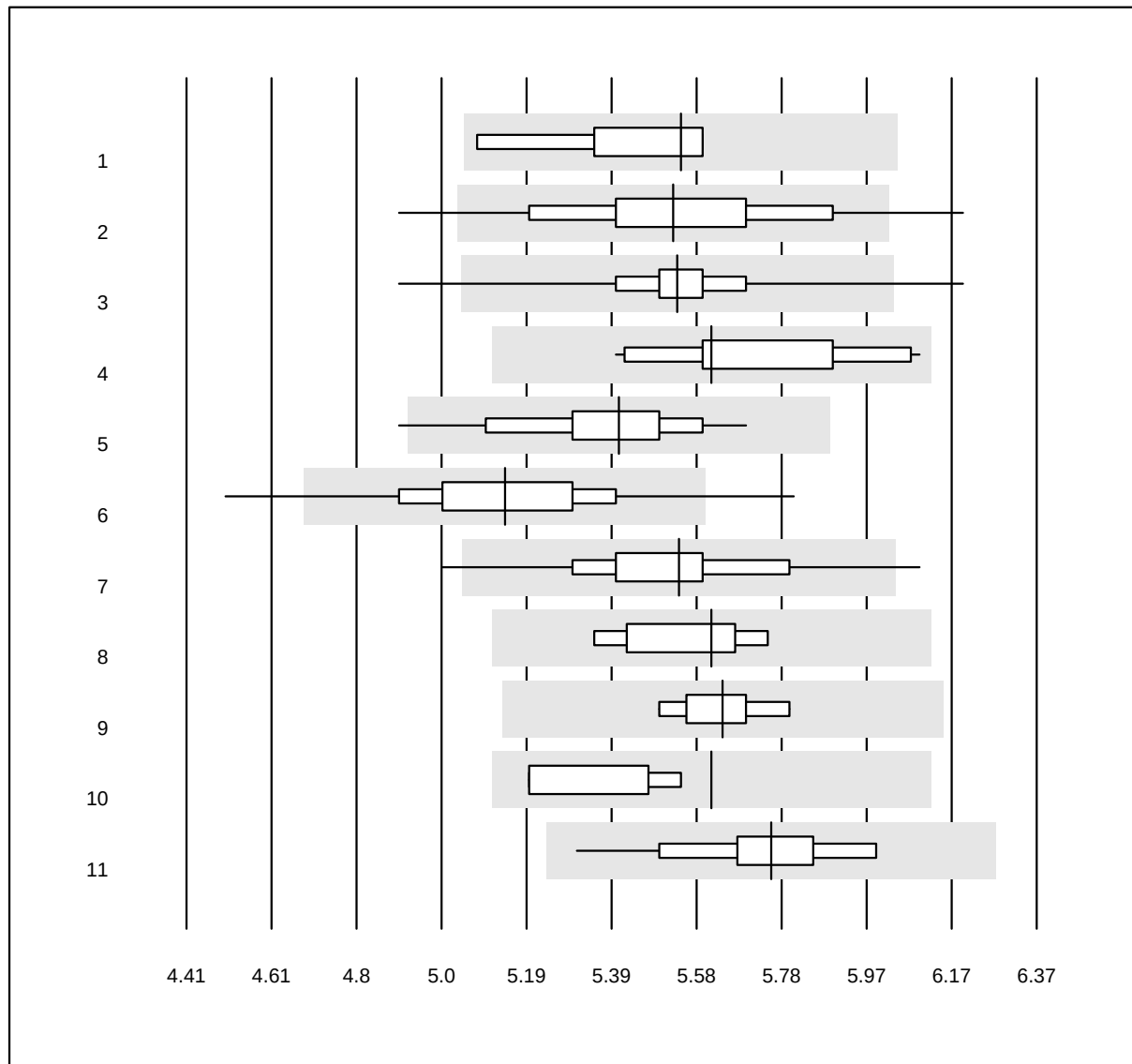
QUALAB Toleranz: 9%

HbA1c sample A (%)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 A1c Now          | 208   | 79.8  | 13.0      | 7.2       | 6.4          | 5.5  | e    |
| 2 AFIAS            | 153   | 90.2  | 7.2       | 2.6       | 6.6          | 5.1  | e    |
| 3 Celltac chemi    | 37    | 94.6  | 2.7       | 2.7       | 6.8          | 5.0  | e    |
| 4 Eurolyser        | 6     | 83.3  | 16.7      | 0.0       | 6.8          | 7.2  | e*   |
| 5 HPLC             | 12    | 100.0 | 0.0       | 0.0       | 6.9          | 1.4  | e    |
| 6 LumiraDx         | 4     | 100.0 | 0.0       | 0.0       | 6.8          | 3.6  | c*   |
| 7 Roche, Cobas     | 22    | 100.0 | 0.0       | 0.0       | 7.0          | 2.5  | e    |
| 8 Afinion          | 561   | 99.1  | 0.7       | 0.2       | 6.6          | 2.4  | e    |
| 9 Cobas b101       | 234   | 99.6  | 0.0       | 0.4       | 6.4          | 3.4  | e    |
| 10 DCA2000/Vantage | 133   | 97.0  | 2.3       | 0.8       | 6.7          | 3.0  | e    |
| 11 Andere          | 12    | 75.0  | 8.3       | 16.7      | 6.8          | 5.5  | c*   |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## HbA1c sample B



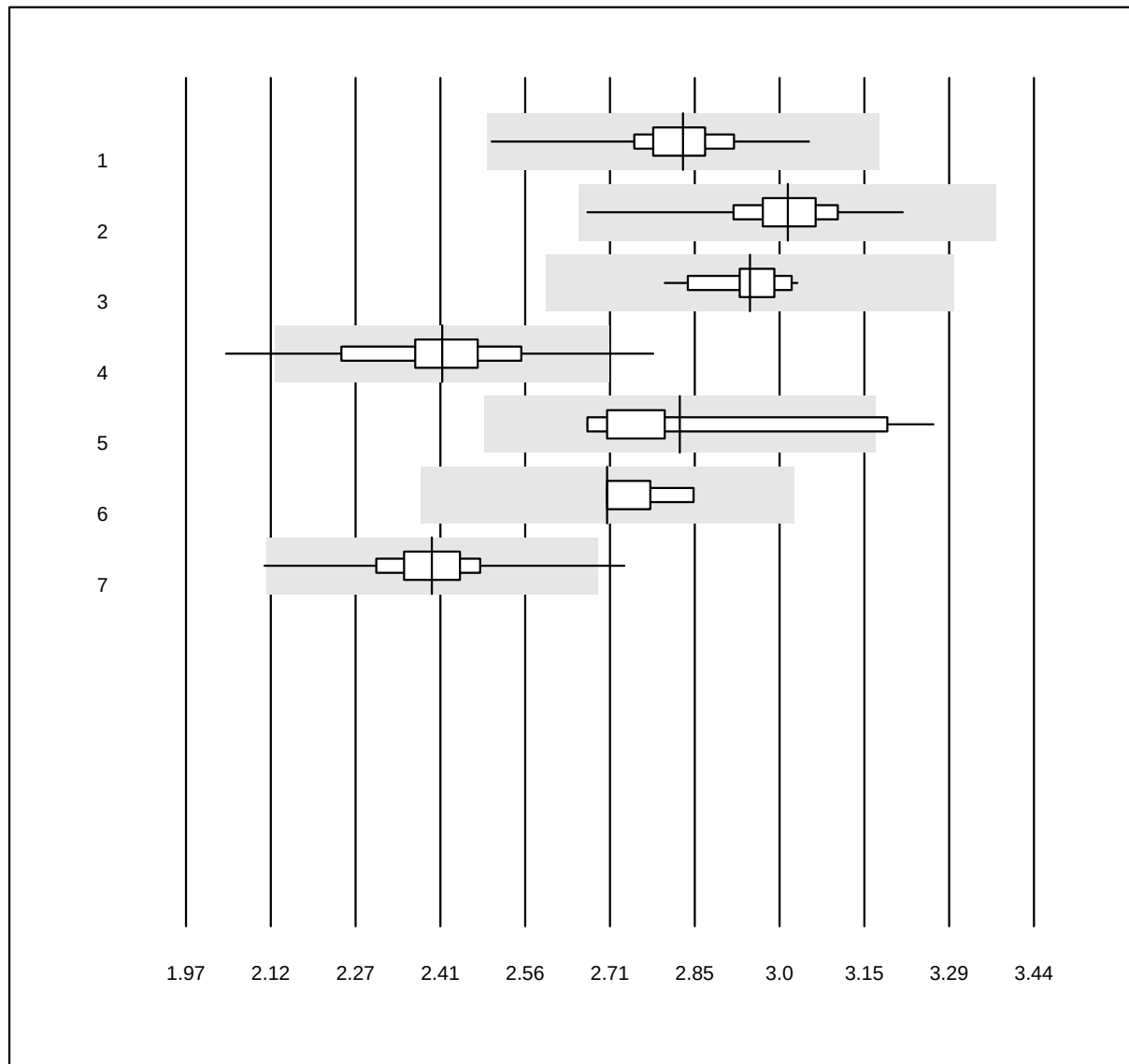
QUALAB Toleranz: 9%

HbA1c sample B (%)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 A1c Now         | 6     | 83.3  | 0.0       | 16.7      | 5.5          | 3.0  | e*   |
| 2 AFIAS           | 230   | 93.5  | 5.7       | 0.9       | 5.5          | 4.5  | e    |
| 3 Afinion         | 696   | 98.9  | 0.6       | 0.6       | 5.5          | 2.3  | e    |
| 4 Andere          | 11    | 90.9  | 0.0       | 9.1       | 5.6          | 3.6  | c*   |
| 5 Celltac chemi   | 29    | 96.6  | 3.4       | 0.0       | 5.4          | 3.7  | e    |
| 6 Cobas b101      | 222   | 97.7  | 1.8       | 0.5       | 5.1          | 3.6  | e    |
| 7 DCA2000/Vantage | 177   | 97.7  | 1.7       | 0.6       | 5.5          | 3.4  | e    |
| 8 Eurolyser       | 4     | 100.0 | 0.0       | 0.0       | 5.6          | 2.3  | c*   |
| 9 HPLC            | 12    | 100.0 | 0.0       | 0.0       | 5.6          | 1.8  | e    |
| 10 Quick Read go  | 5     | 80.0  | 0.0       | 20.0      | 5.6          | 2.8  | c*   |
| 11 Roche, Cobas   | 21    | 100.0 | 0.0       | 0.0       | 5.8          | 3.0  | e    |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)



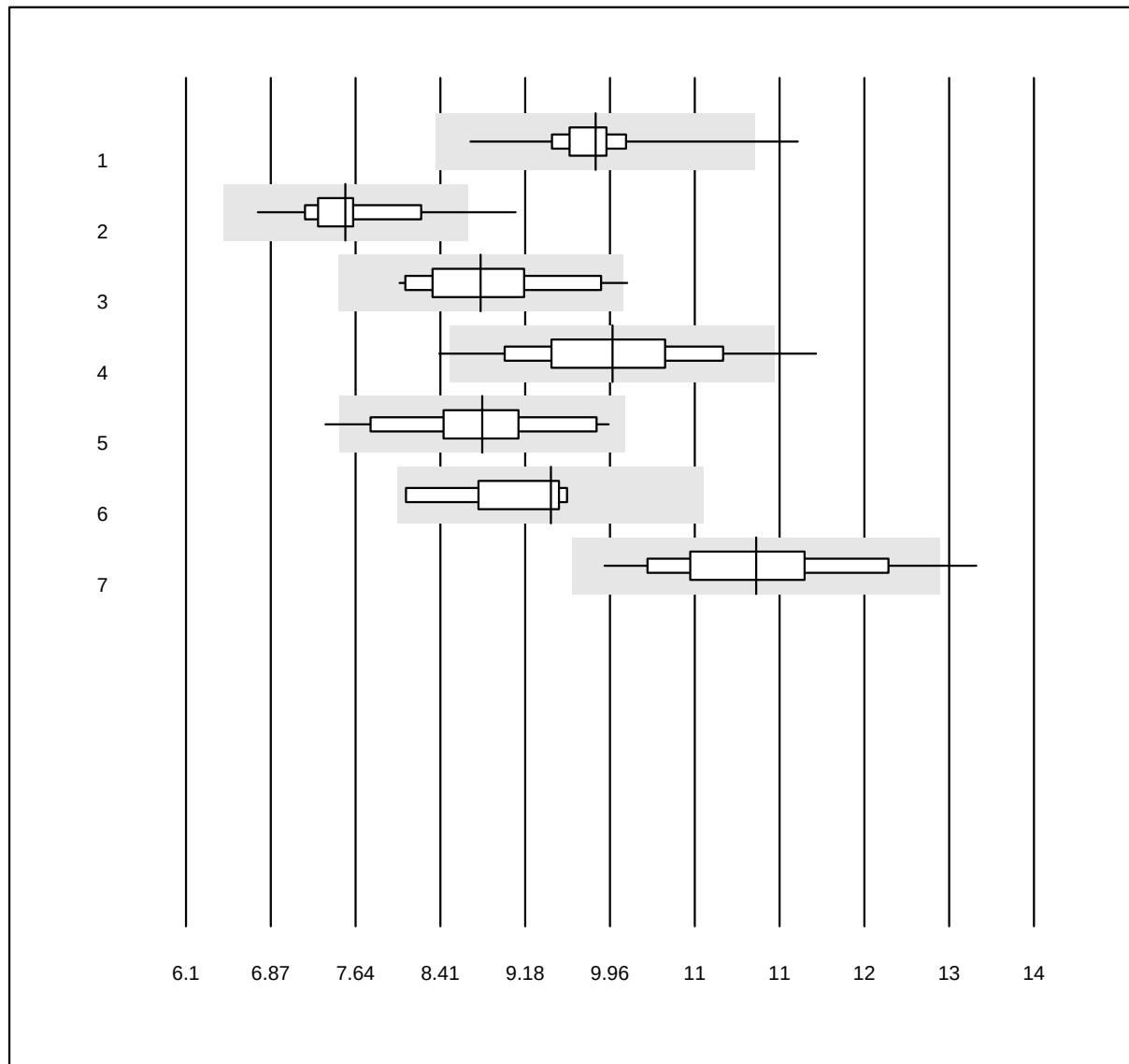
pCO<sub>2</sub>

QUALAB Toleranz: 12%

pCO<sub>2</sub> (kPa)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 112   | 100.0 | 0.0       | 0.0       | 2.83         | 2.9  | e    |
| 2 ABL90 FLEX / PLUS | 154   | 100.0 | 0.0       | 0.0       | 3.01         | 2.5  | e    |
| 3 Cobas b 123       | 19    | 100.0 | 0.0       | 0.0       | 2.95         | 2.0  | e    |
| 4 EPOC              | 60    | 93.3  | 3.3       | 3.3       | 2.41         | 5.2  | e    |
| 5 GEM               | 15    | 93.3  | 6.7       | 0.0       | 2.83         | 5.9  | e*   |
| 6 IL                | 4     | 100.0 | 0.0       | 0.0       | 2.70         | 1.8  | e    |
| 7 iStat             | 57    | 96.5  | 3.5       | 0.0       | 2.40         | 3.6  | e    |

6 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

pO<sub>2</sub>

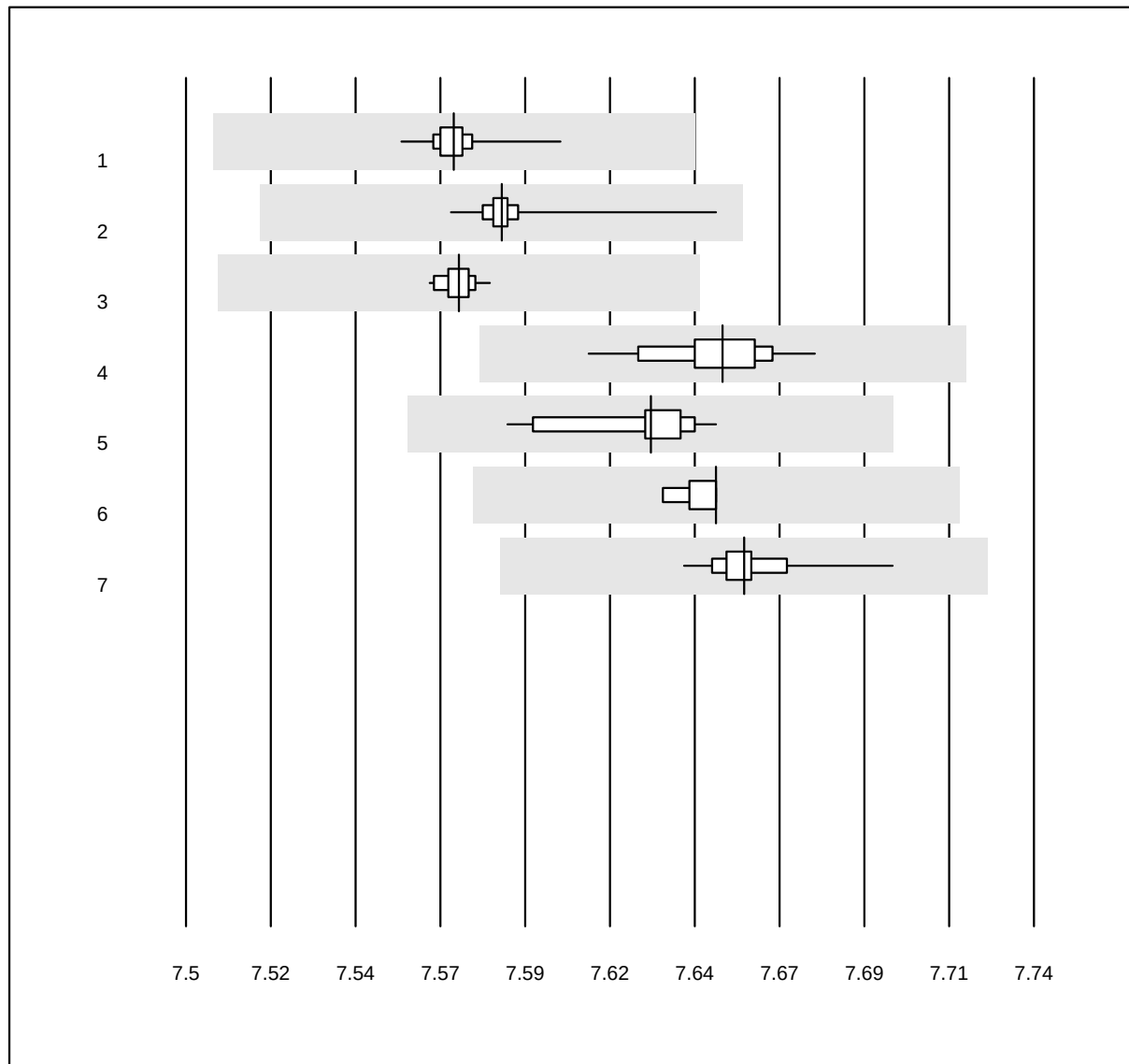
QUALAB Toleranz: 15%

pO<sub>2</sub> (kPa)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 112   | 95.5  | 1.8       | 2.7       | 9.92         | 4.5  | e    |
| 2 ABL90 FLEX / PLUS | 155   | 94.2  | 1.9       | 3.9       | 7.58         | 5.4  | e    |
| 3 Cobas b 123       | 19    | 89.5  | 5.3       | 5.3       | 8.85         | 7.3  | e    |
| 4 EPOC              | 60    | 81.7  | 5.0       | 13.3      | 10.07        | 7.8  | e    |
| 5 GEM               | 15    | 93.3  | 6.7       | 0.0       | 8.86         | 7.8  | e*   |
| 6 IL                | 4     | 100.0 | 0.0       | 0.0       | 9.50         | 5.0  | e*   |
| 7 iStat             | 55    | 92.7  | 1.8       | 5.5       | 11.41        | 7.2  | e    |

5 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## pH



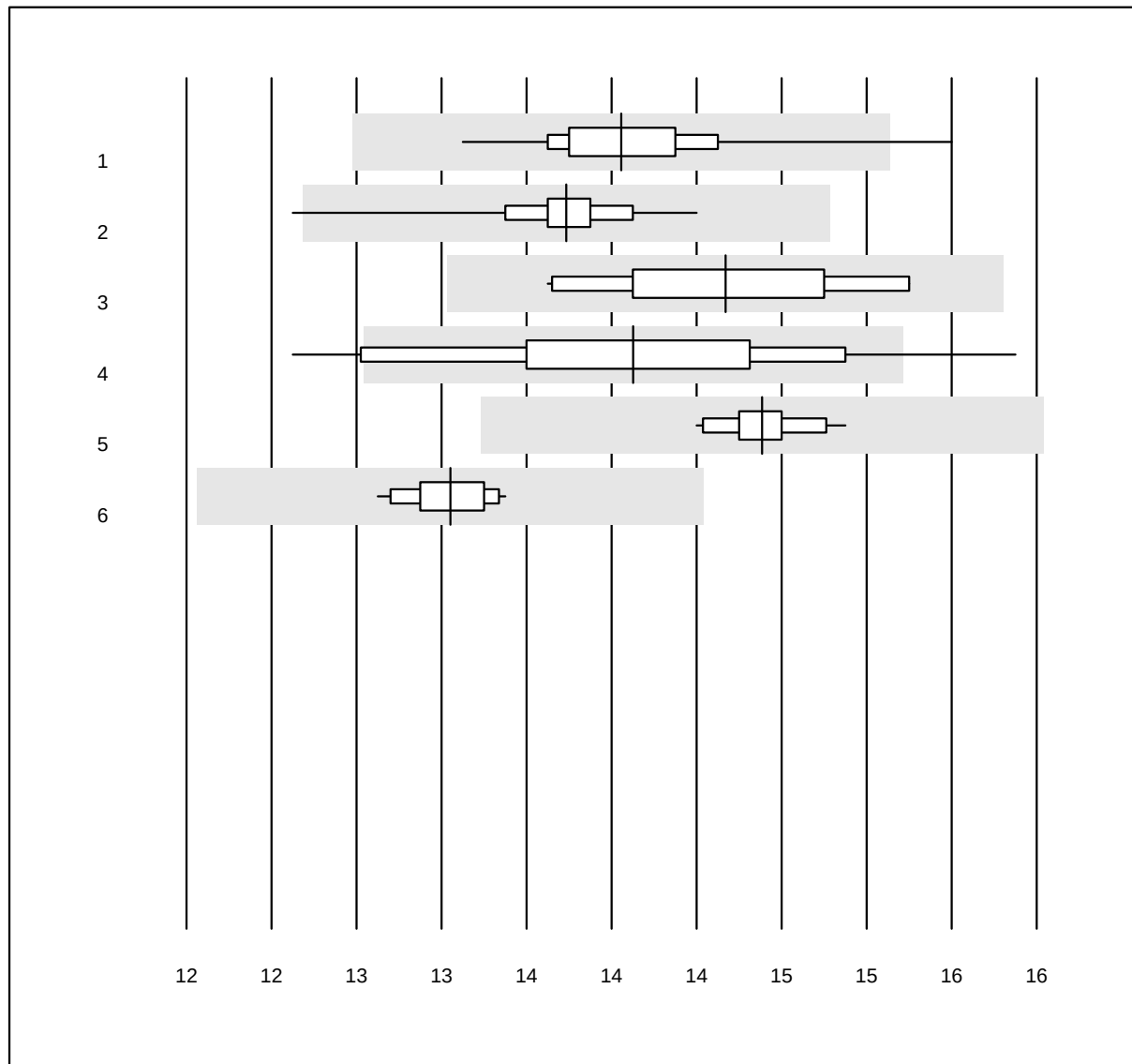
QUALAB Toleranz: 0%

pH ()

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 110   | 100.0 | 0.0       | 0.0       | 7.58         | 0.1  | e    |
| 2 ABL90 FLEX / PLUS | 155   | 100.0 | 0.0       | 0.0       | 7.59         | 0.1  | e    |
| 3 Cobas b 123       | 20    | 100.0 | 0.0       | 0.0       | 7.58         | 0.1  | e    |
| 4 EPOC              | 59    | 100.0 | 0.0       | 0.0       | 7.65         | 0.2  | e    |
| 5 GEM               | 15    | 100.0 | 0.0       | 0.0       | 7.63         | 0.2  | e    |
| 6 IL                | 4     | 100.0 | 0.0       | 0.0       | 7.65         | 0.1  | e    |
| 7 iStat             | 58    | 100.0 | 0.0       | 0.0       | 7.66         | 0.1  | e    |

7 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Glucose BG



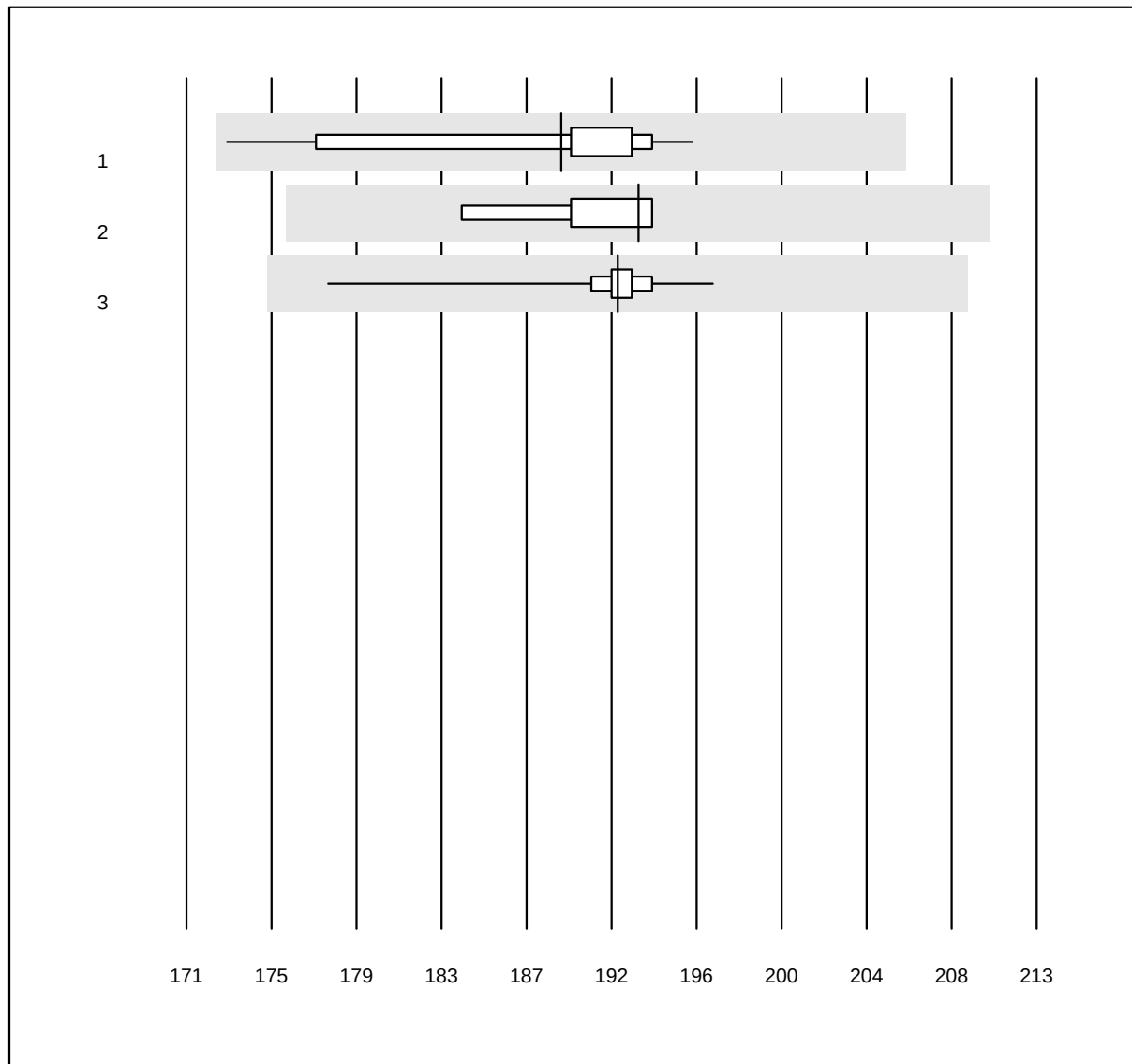
QUALAB Toleranz: 9%

Glucose BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 103   | 99.0  | 1.0       | 0.0       | 14.0         | 2.6  | e    |
| 2 ABL90 FLEX / PLUS | 129   | 99.2  | 0.8       | 0.0       | 13.8         | 1.9  | e    |
| 3 Cobas b 123       | 12    | 91.7  | 0.0       | 8.3       | 14.5         | 4.1  | e*   |
| 4 EPOC              | 45    | 88.9  | 11.1      | 0.0       | 14.1         | 5.6  | e    |
| 5 GEM               | 12    | 100.0 | 0.0       | 0.0       | 14.7         | 1.2  | e    |
| 6 iStat             | 13    | 92.3  | 0.0       | 7.7       | 13.2         | 1.3  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Hemoglobin BG



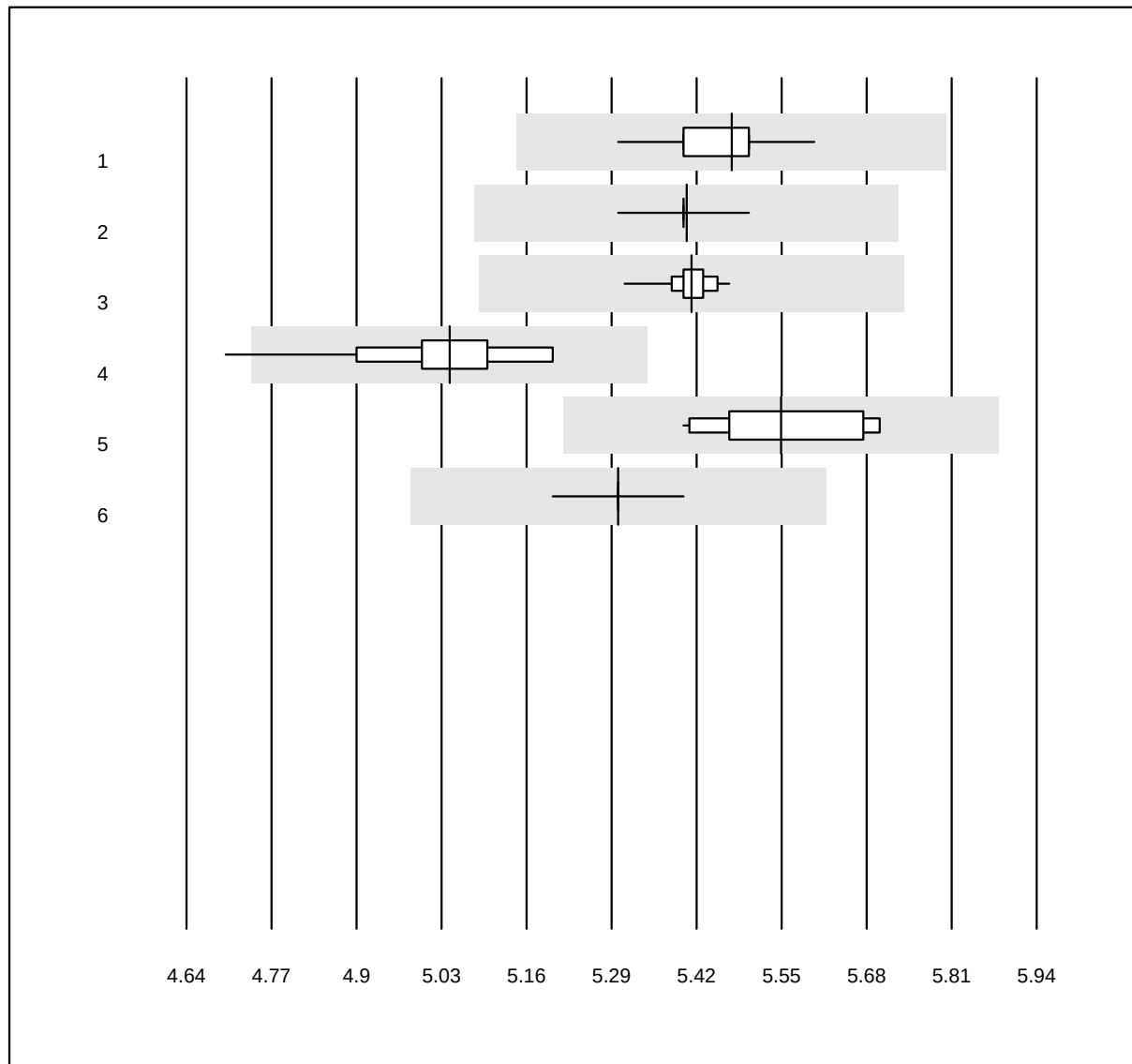
QUALAB Toleranz: 9%

Hemoglobin BG (g/l)

| No. Methode              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800             | 104   | 99.0  | 0.0       | 1.0       | 189.5        | 3.3  | e    |
| 2 ABL80 FLEX CO-OX / OSM | 5     | 100.0 | 0.0       | 0.0       | 193.3        | 1.5  | e    |
| 3 ABL90 FLEX / PLUS      | 142   | 99.3  | 0.0       | 0.7       | 192.3        | 0.9  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Potassium BG



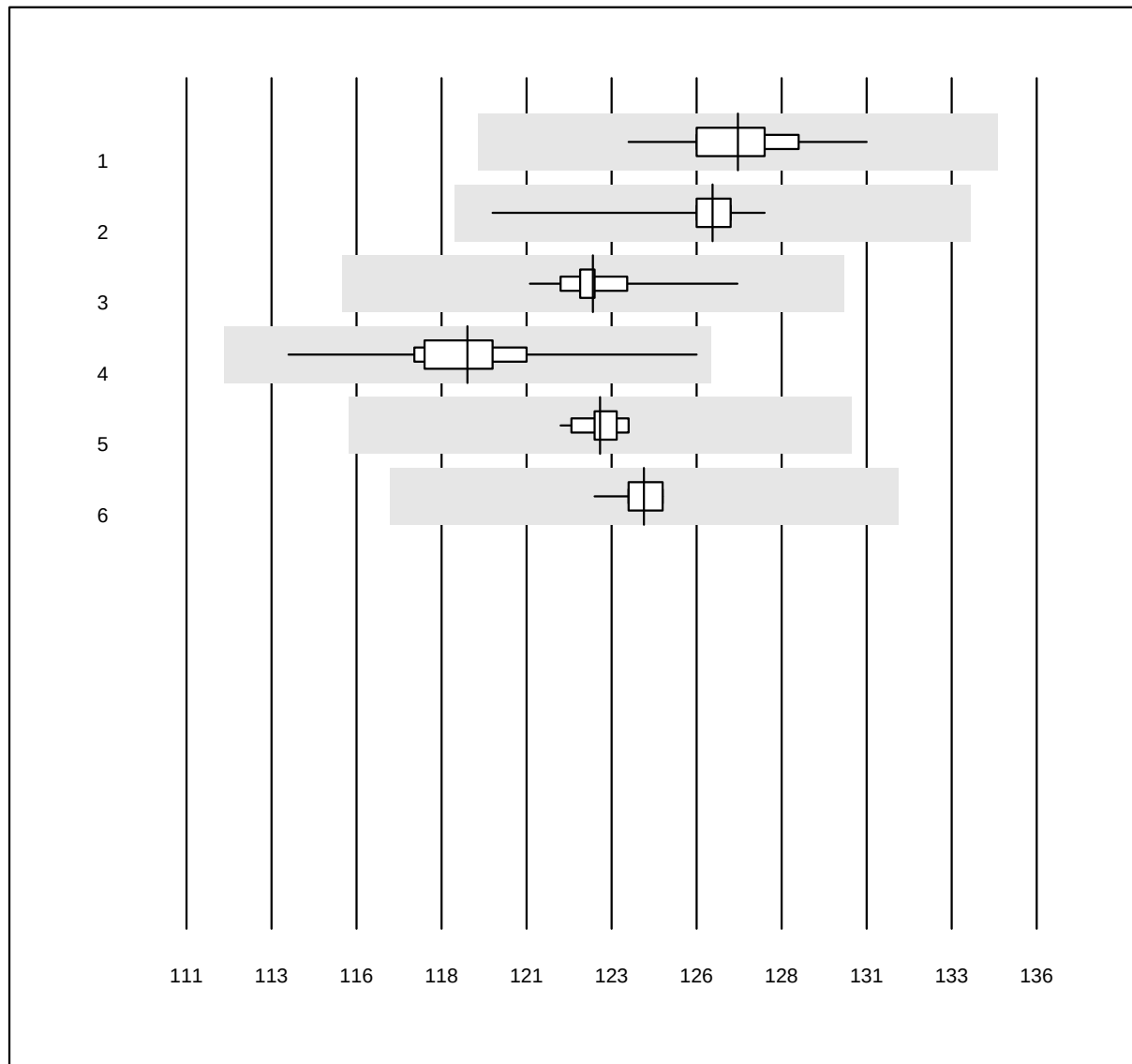
QUALAB Toleranz: 6%

Potassium BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 103   | 100.0 | 0.0       | 0.0       | 5.5          | 1.1  | e    |
| 2 ABL90 FLEX / PLUS | 144   | 100.0 | 0.0       | 0.0       | 5.4          | 0.5  | e    |
| 3 Cobas b 123       | 18    | 100.0 | 0.0       | 0.0       | 5.4          | 0.6  | e    |
| 4 EPOC              | 47    | 97.9  | 2.1       | 0.0       | 5.0          | 2.0  | e    |
| 5 GEM               | 12    | 100.0 | 0.0       | 0.0       | 5.5          | 1.9  | e    |
| 6 iStat             | 22    | 86.4  | 0.0       | 13.6      | 5.3          | 0.6  | e    |

4 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Sodium BG



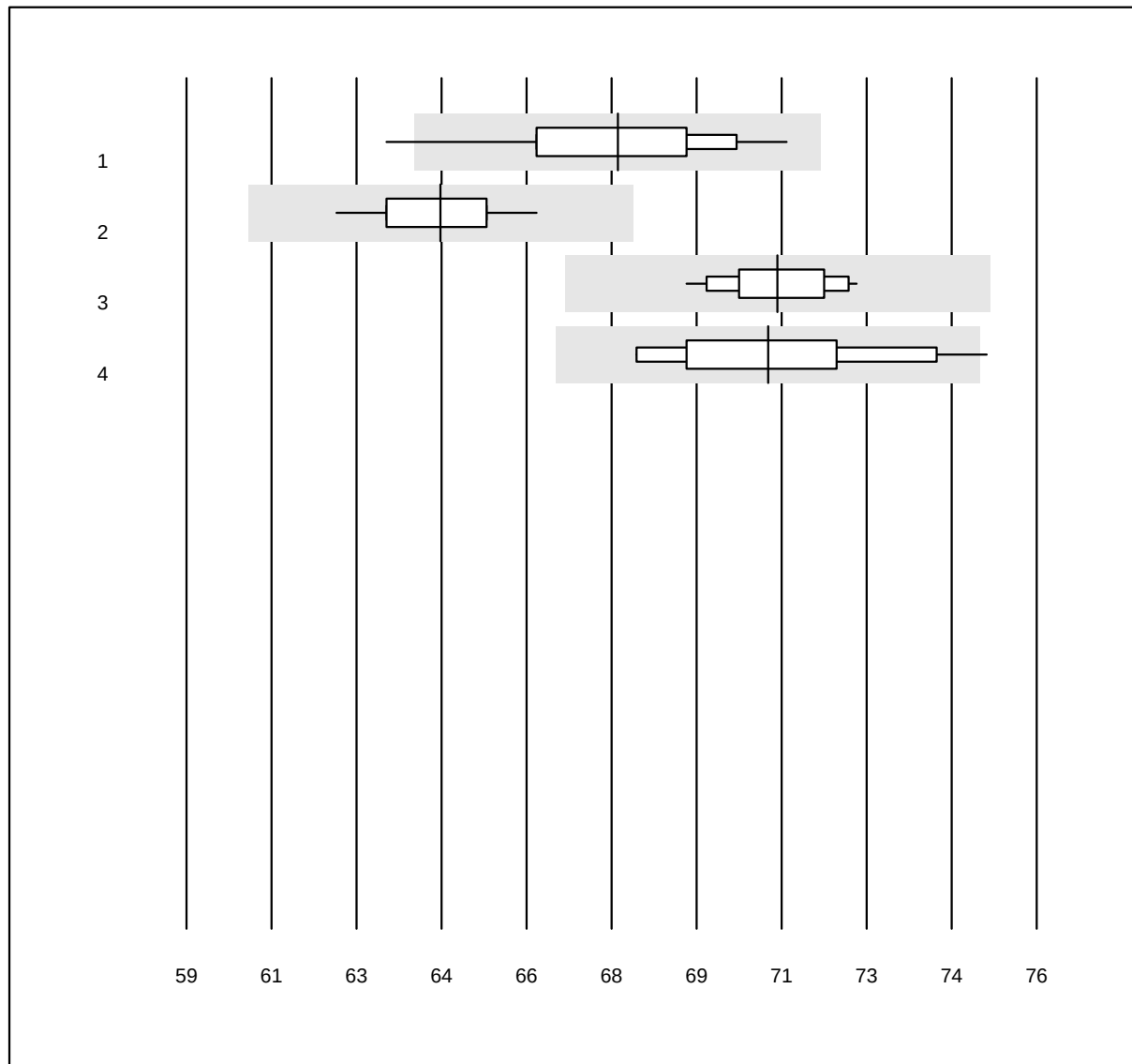
QUALAB Toleranz: 6%

Sodium BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 102   | 100.0 | 0.0       | 0.0       | 127.2        | 1.0  | e    |
| 2 ABL90 FLEX / PLUS | 143   | 100.0 | 0.0       | 0.0       | 126.5        | 0.6  | e    |
| 3 Cobas b 123       | 18    | 100.0 | 0.0       | 0.0       | 123.0        | 1.0  | e    |
| 4 EPOC              | 46    | 100.0 | 0.0       | 0.0       | 119.3        | 1.5  | e    |
| 5 GEM               | 13    | 100.0 | 0.0       | 0.0       | 123.2        | 0.5  | e    |
| 6 iStat             | 22    | 90.9  | 0.0       | 9.1       | 124.5        | 0.5  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Chlorid-BG



QUALAB Toleranz: 6%

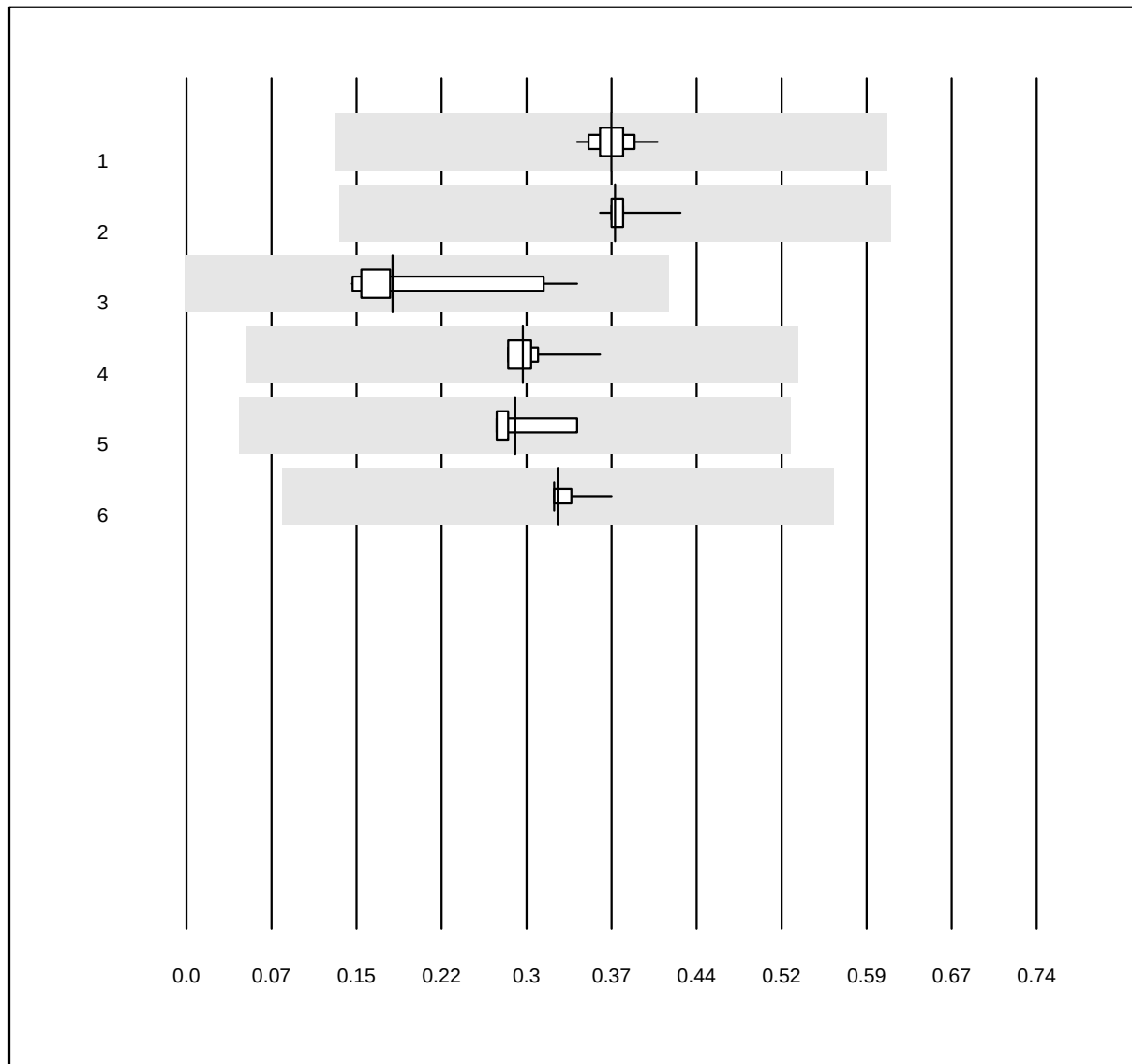
Chlorid-BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 100   | 98.0  | 1.0       | 1.0       | 67.6         | 2.6  | e    |
| 2 ABL90 FLEX / PLUS | 140   | 100.0 | 0.0       | 0.0       | 64.1         | 1.4  | e    |
| 3 Cobas b 123       | 13    | 100.0 | 0.0       | 0.0       | 70.8         | 1.4  | e    |
| 4 EPOC              | 19    | 94.7  | 5.3       | 0.0       | 70.6         | 3.1  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)



## Calcium-BG



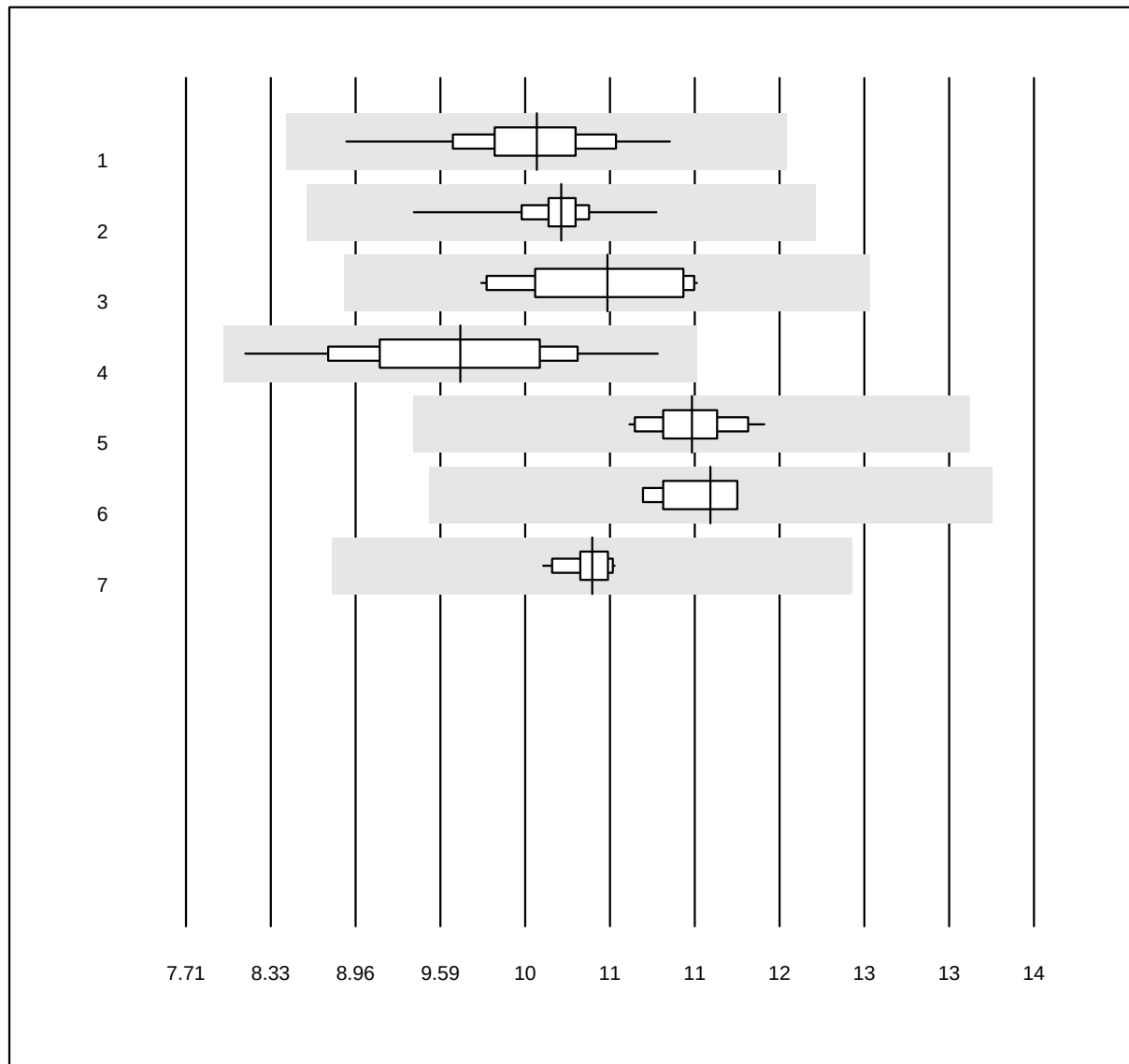
MQ Toleranz: 12%  
( < 2.0: +/- 0.24 mmol/l)

Calcium-BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 102   | 100.0 | 0.0       | 0.0       | 0.37         | 4.3  | e    |
| 2 ABL90 FLEX / PLUS | 141   | 99.3  | 0.0       | 0.7       | 0.37         | 2.0  | e    |
| 3 Cobas b123        | 12    | 100.0 | 0.0       | 0.0       | 0.18         | 31.9 | e    |
| 4 EPOC              | 43    | 100.0 | 0.0       | 0.0       | 0.29         | 5.2  | e    |
| 5 GEM               | 13    | 100.0 | 0.0       | 0.0       | 0.29         | 8.5  | e    |
| 6 iStat             | 19    | 84.2  | 0.0       | 15.8      | 0.32         | 3.9  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

## Lactate-BG



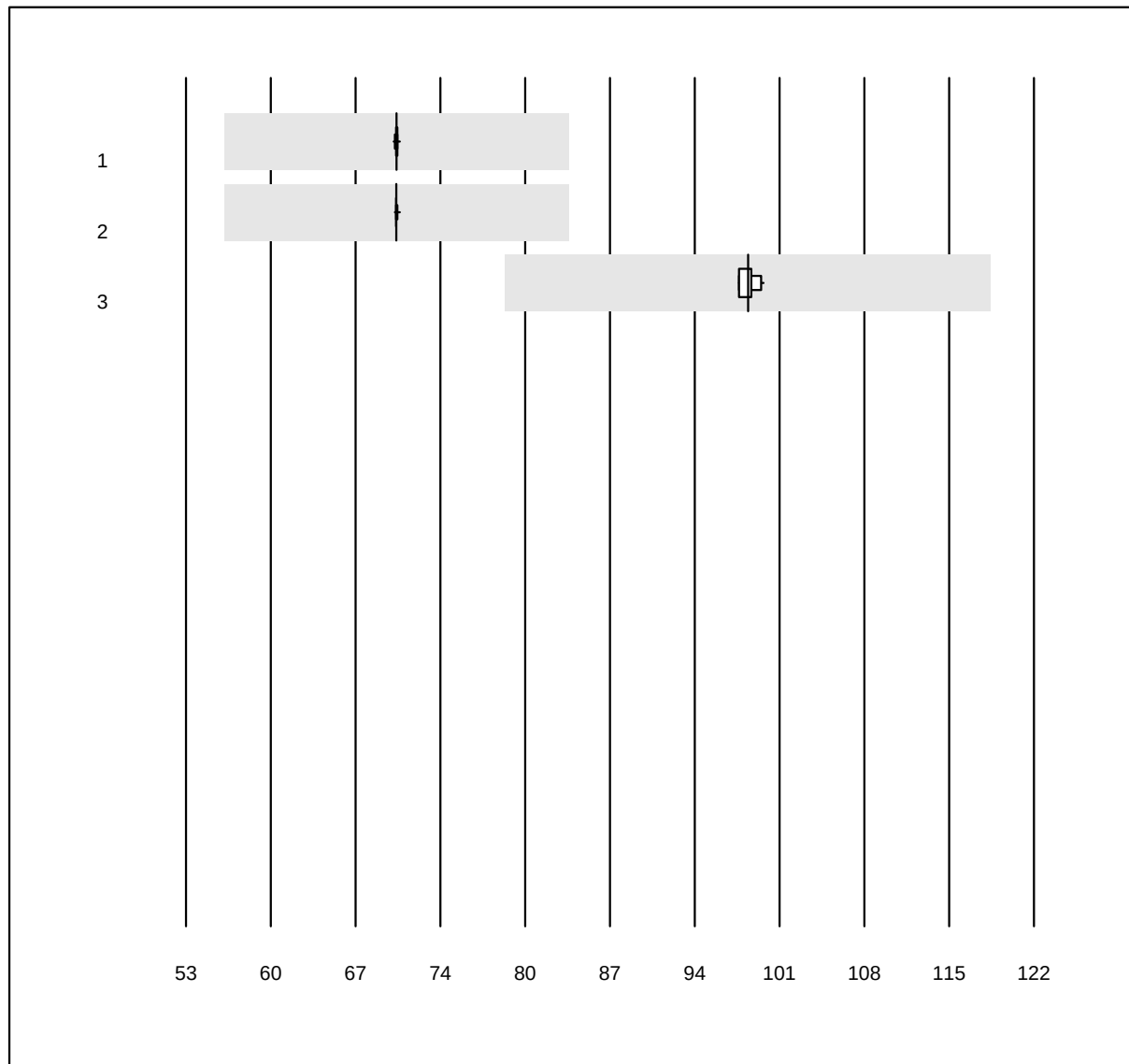
QUALAB Toleranz: 18%

Lactate-BG (mmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 108   | 100.0 | 0.0       | 0.0       | 10.31        | 4.6  | e    |
| 2 ABL90 FLEX / PLUS | 143   | 100.0 | 0.0       | 0.0       | 10.49        | 2.5  | e    |
| 3 Cobas b123        | 11    | 100.0 | 0.0       | 0.0       | 10.84        | 5.5  | e    |
| 4 EPOC              | 44    | 100.0 | 0.0       | 0.0       | 9.74         | 7.3  | e    |
| 5 GEM               | 13    | 100.0 | 0.0       | 0.0       | 11.46        | 2.4  | e    |
| 6 IL                | 4     | 100.0 | 0.0       | 0.0       | 11.60        | 2.6  | e    |
| 7 iStat             | 21    | 100.0 | 0.0       | 0.0       | 10.72        | 1.4  | e    |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## sO2 OR



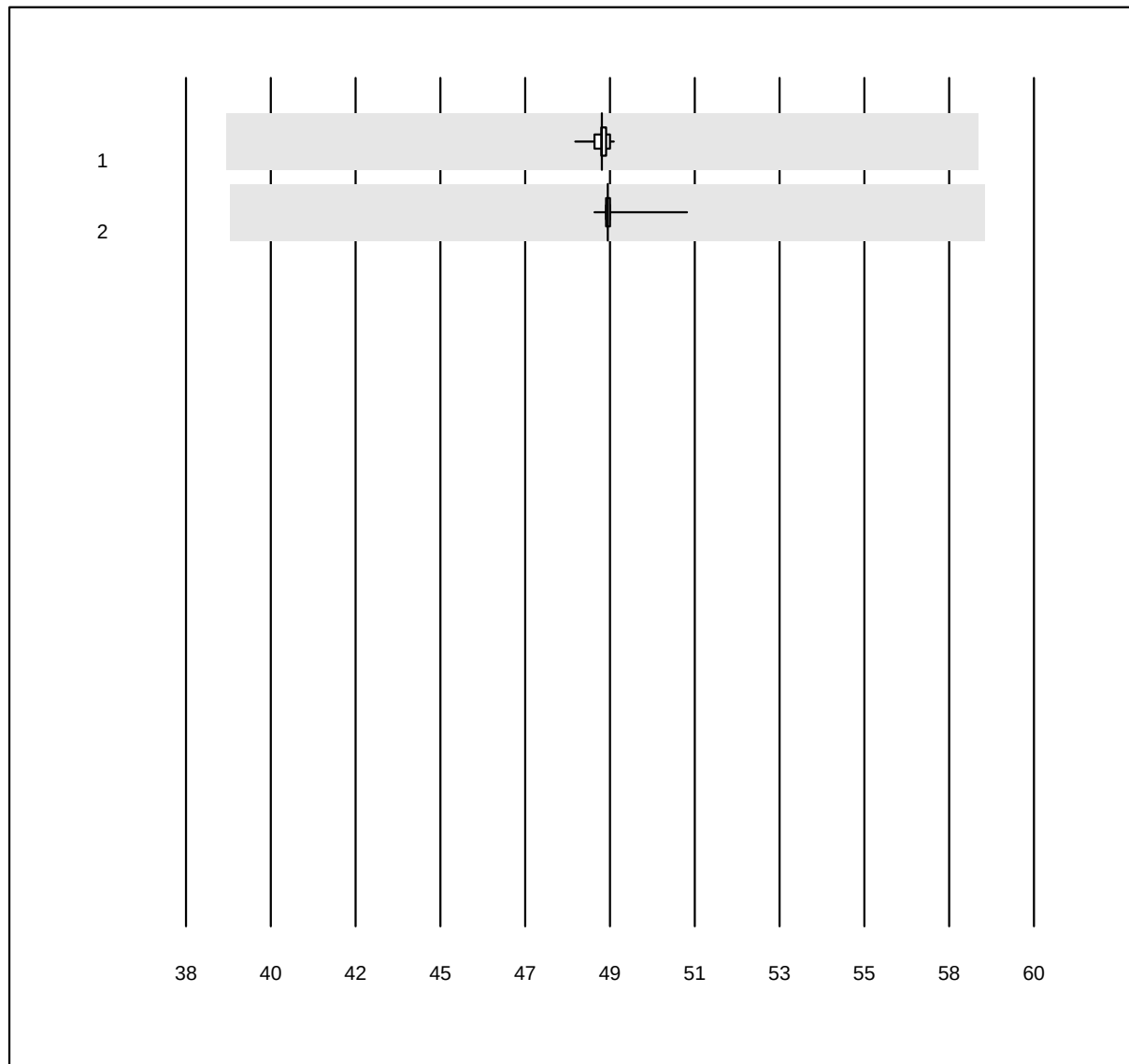
MQ Toleranz: 20%

sO2 OR (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 95    | 98.9  | 0.0       | 1.1       | 70.132       | 0.1  | e    |
| 2 ABL90 FLEX / PLUS | 131   | 98.5  | 0.0       | 1.5       | 70.117       | 0.1  | e    |
| 3 iStat             | 31    | 100.0 | 0.0       | 0.0       | 98.742       | 0.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## FO2Hb OR



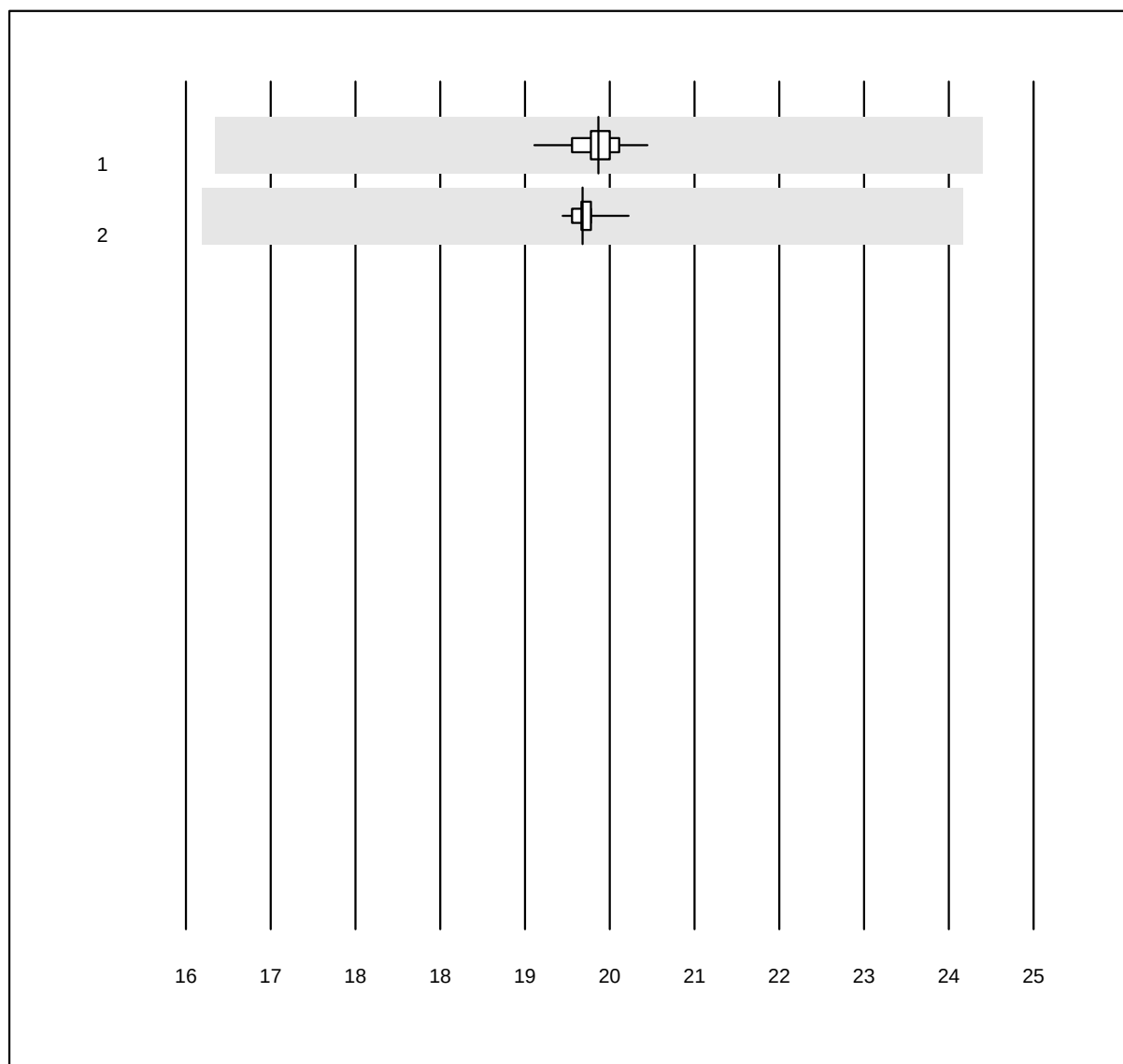
MQ Toleranz: 20%

FO2Hb OR (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 94    | 100.0 | 0.0       | 0.0       | 48.790       | 0.3  | e    |
| 2 ABL90 FLEX / PLUS | 132   | 99.2  | 0.0       | 0.8       | 48.944       | 0.4  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## FCOHb OR



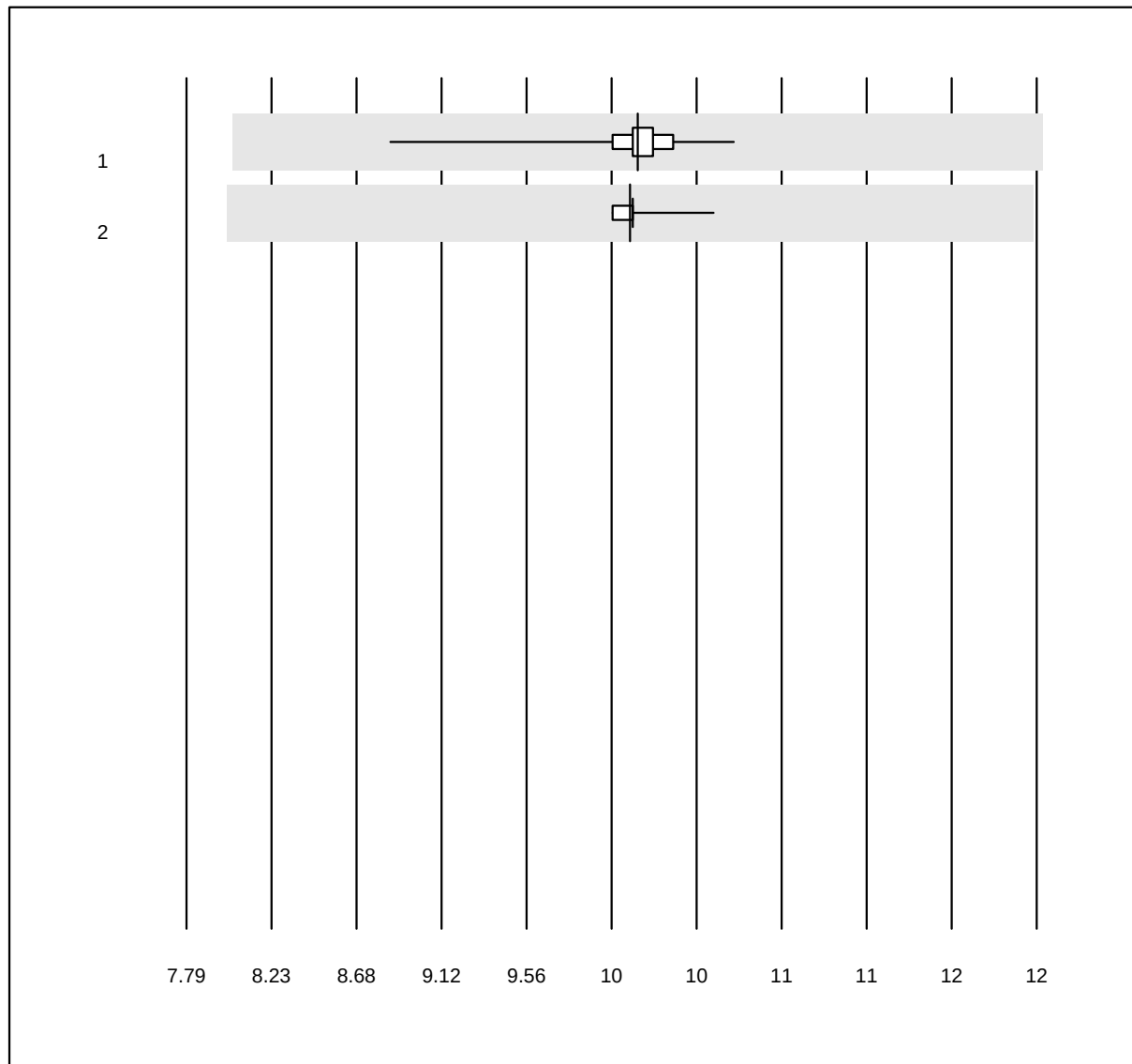
MQ Toleranz: 20%

FCOHb OR (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 94    | 100.0 | 0.0       | 0.0       | 20.380       | 1.1  | e    |
| 2 ABL90 FLEX / PLUS | 133   | 99.2  | 0.0       | 0.8       | 20.211       | 0.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## FMetHb OR



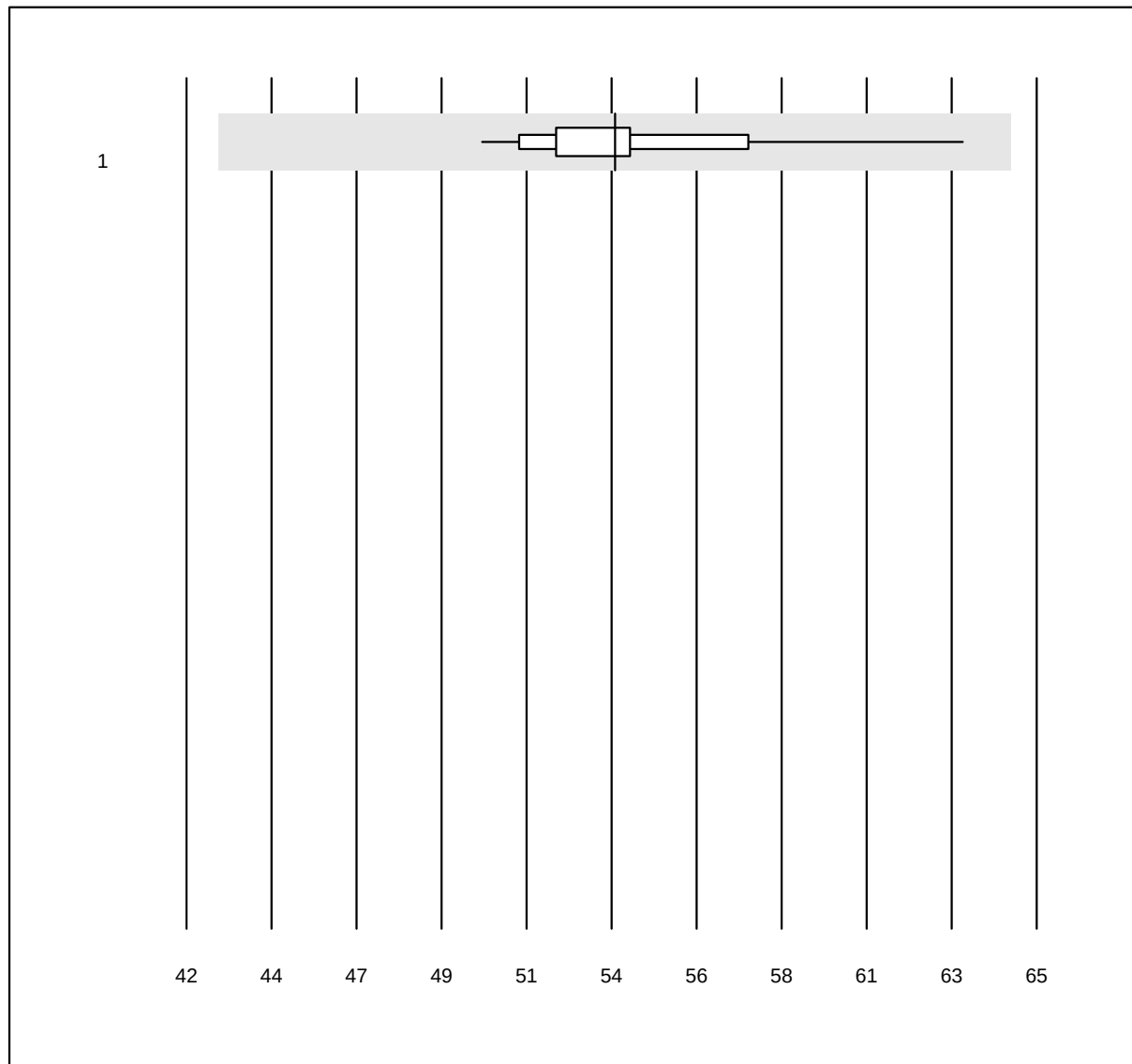
MQ Toleranz: 20%

FMetHb OR (%)

| No. Methode         | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 94    | 98.9 | 0.0       | 1.1       | 10.025       | 1.6  | e    |
| 2 ABL90 FLEX / PLUS | 133   | 99.2 | 0.0       | 0.8       | 9.986        | 0.7  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## FHbF OR

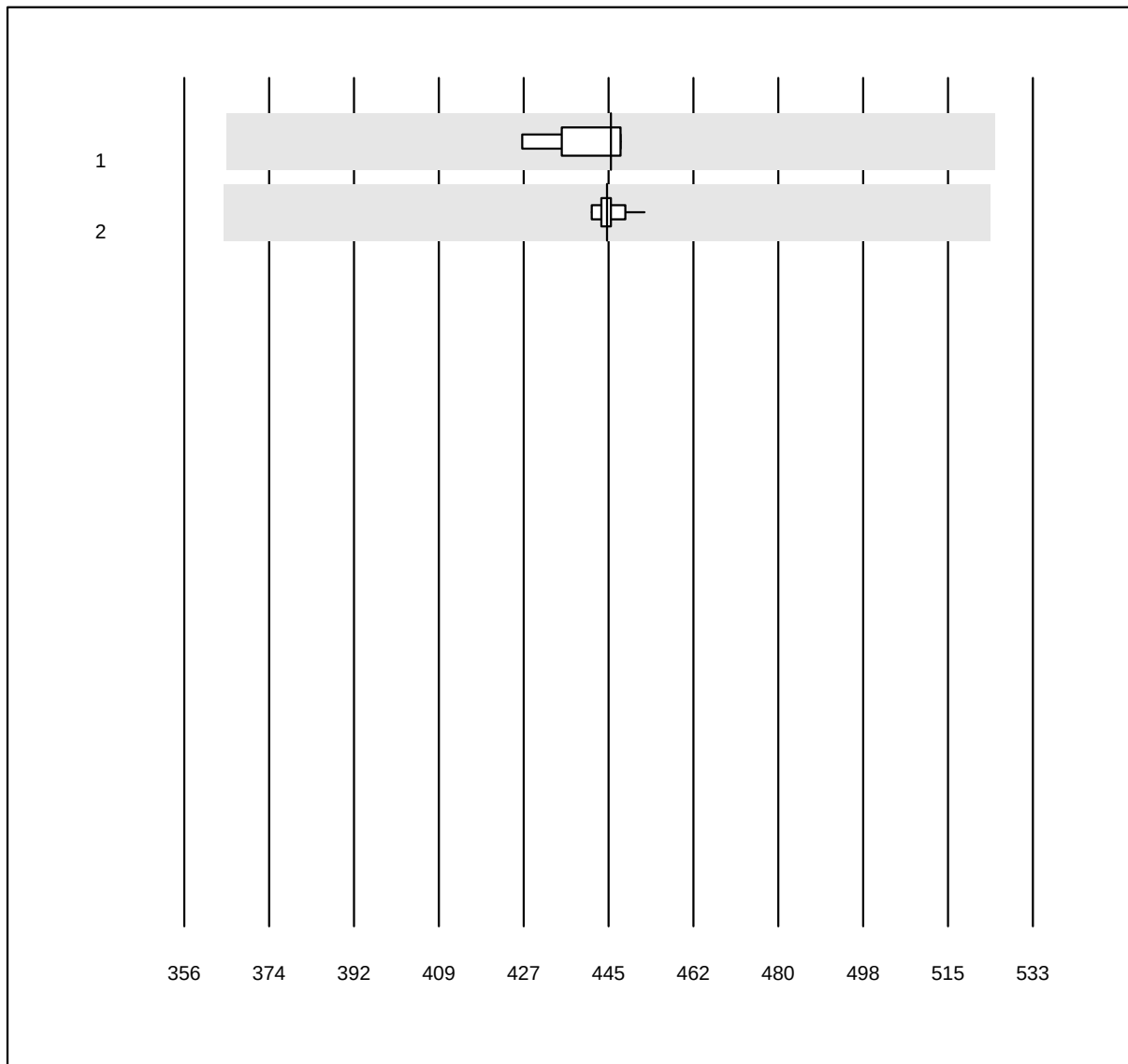


MQ Toleranz: 20%

FHbF OR (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL90 FLEX / PLUS | 37    | 100.0 | 0.0       | 0.0       | 53.595       | 4.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

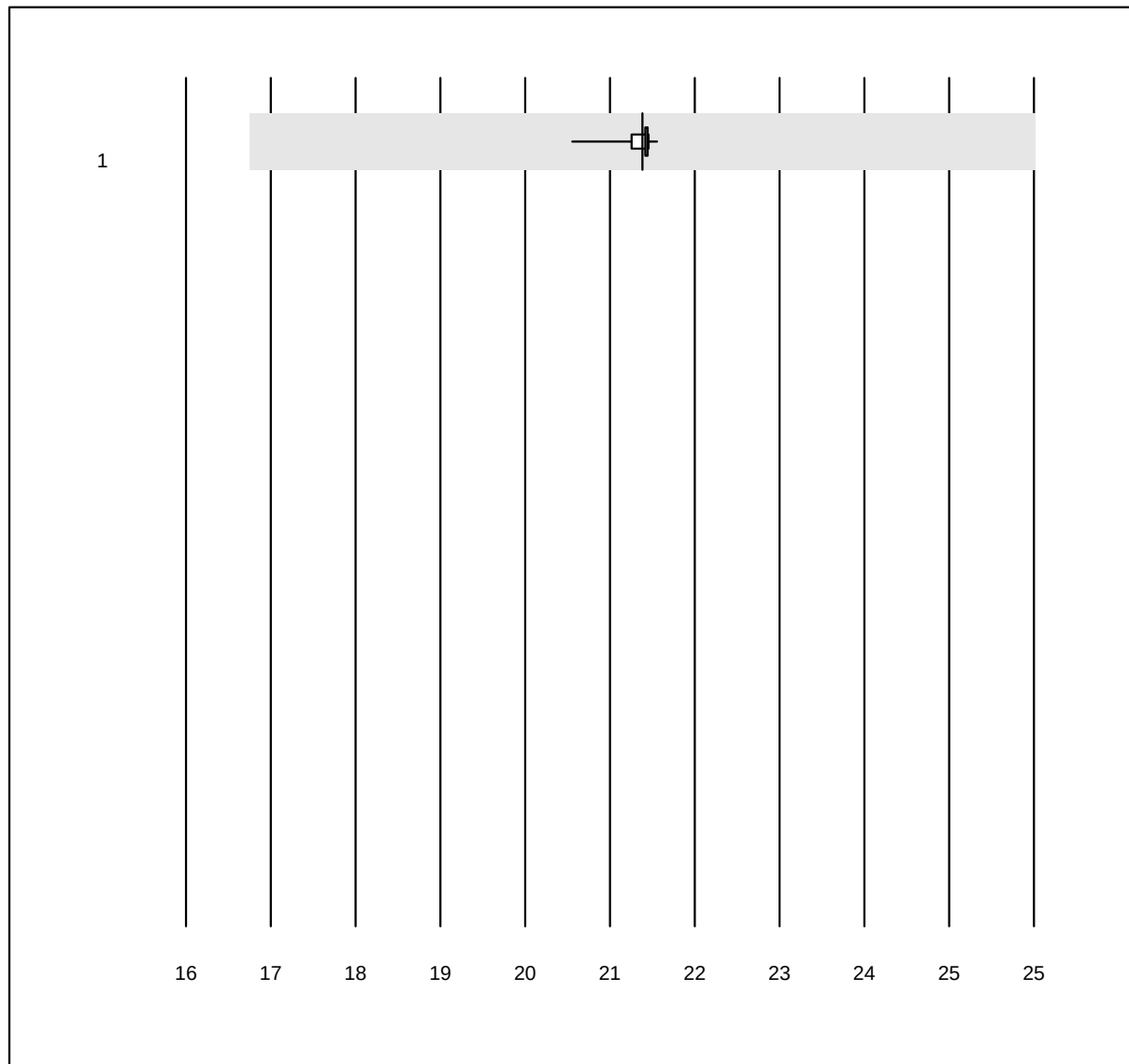
**Bilirubin OR**

QUALAB Toleranz: 18%

Bilirubin OR (μmol/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL700/800        | 4     | 100.0 | 0.0       | 0.0       | 445.0        | 1.6  | e    |
| 2 ABL90 FLEX / PLUS | 32    | 100.0 | 0.0       | 0.0       | 444.2        | 0.6  | e    |



**FHHb**

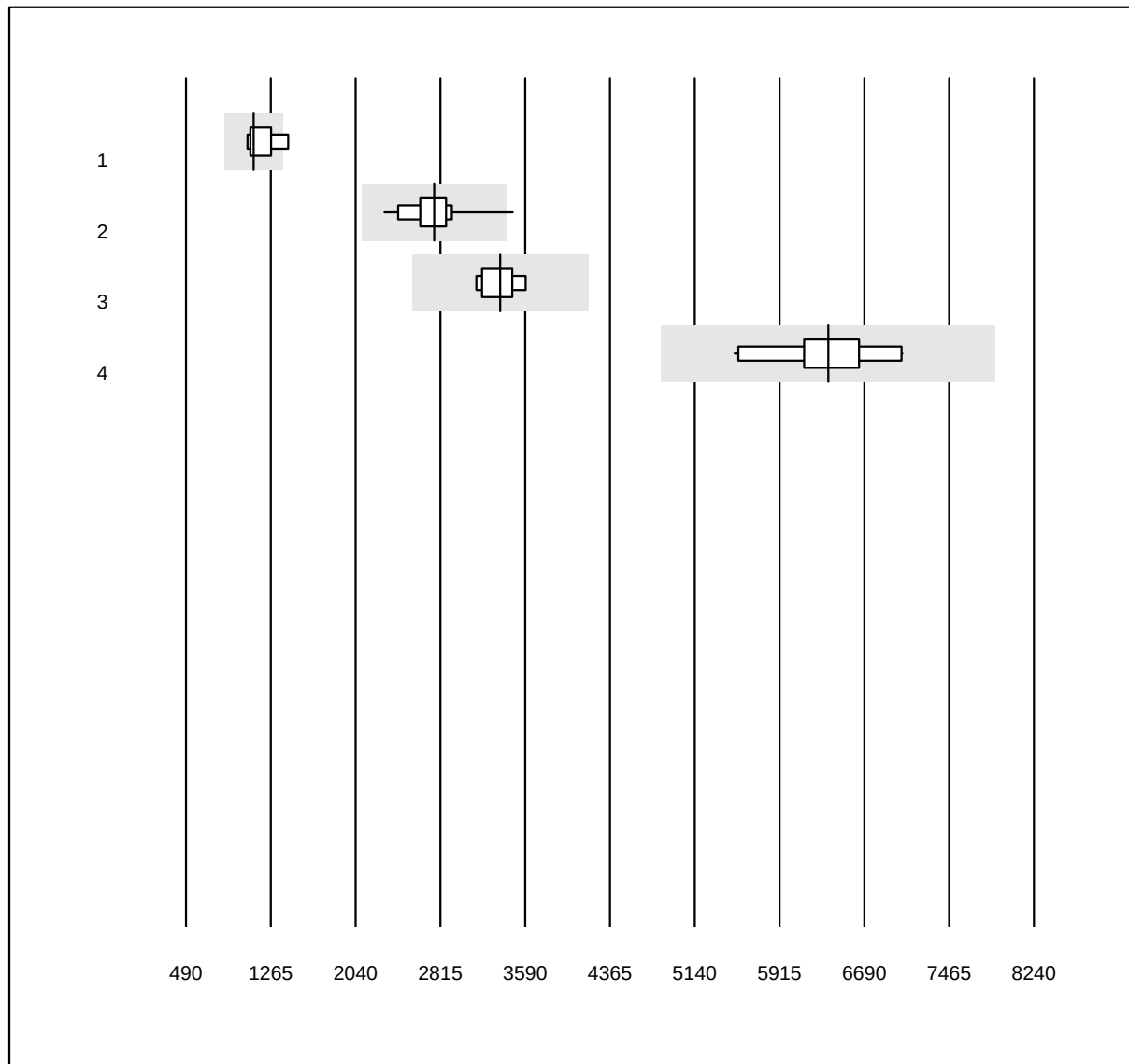
MQ Toleranz: 20%

FHHb (%)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ABL90 FLEX / PLUS | 18    | 100.0 | 0.0       | 0.0       | 20.844       | 0.9  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Troponin I



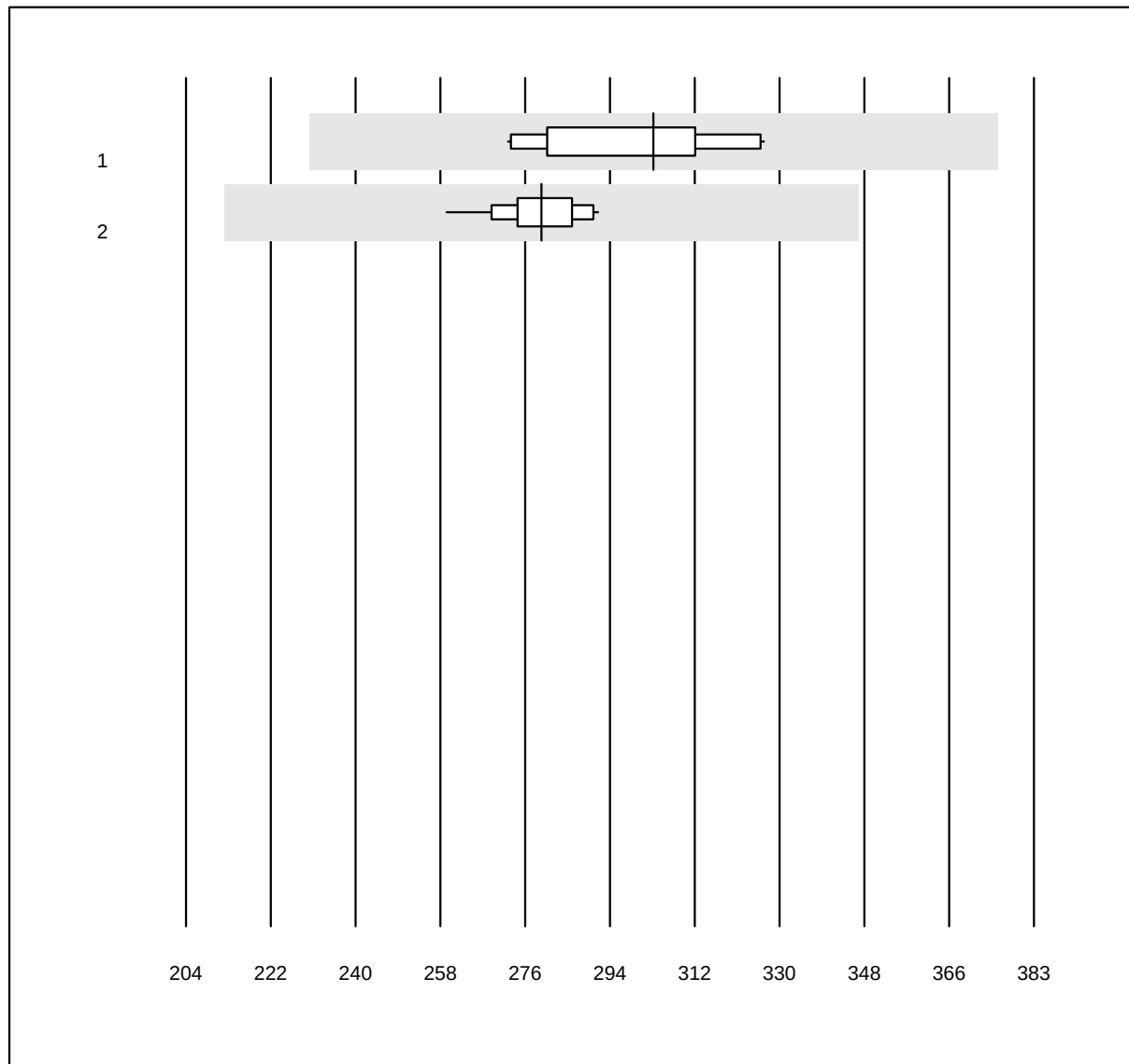
QUALAB Toleranz: 24%

Troponin I (ng/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 1108.2       | 9.9  | e*   |
| 2 Pathfast  | 23    | 95.7  | 4.3       | 0.0       | 2758.7       | 8.2  | e    |
| 3 Siemens   | 6     | 100.0 | 0.0       | 0.0       | 3361.4       | 4.5  | e    |
| 4 Vidas     | 15    | 100.0 | 0.0       | 0.0       | 6361.3       | 7.6  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Troponin T

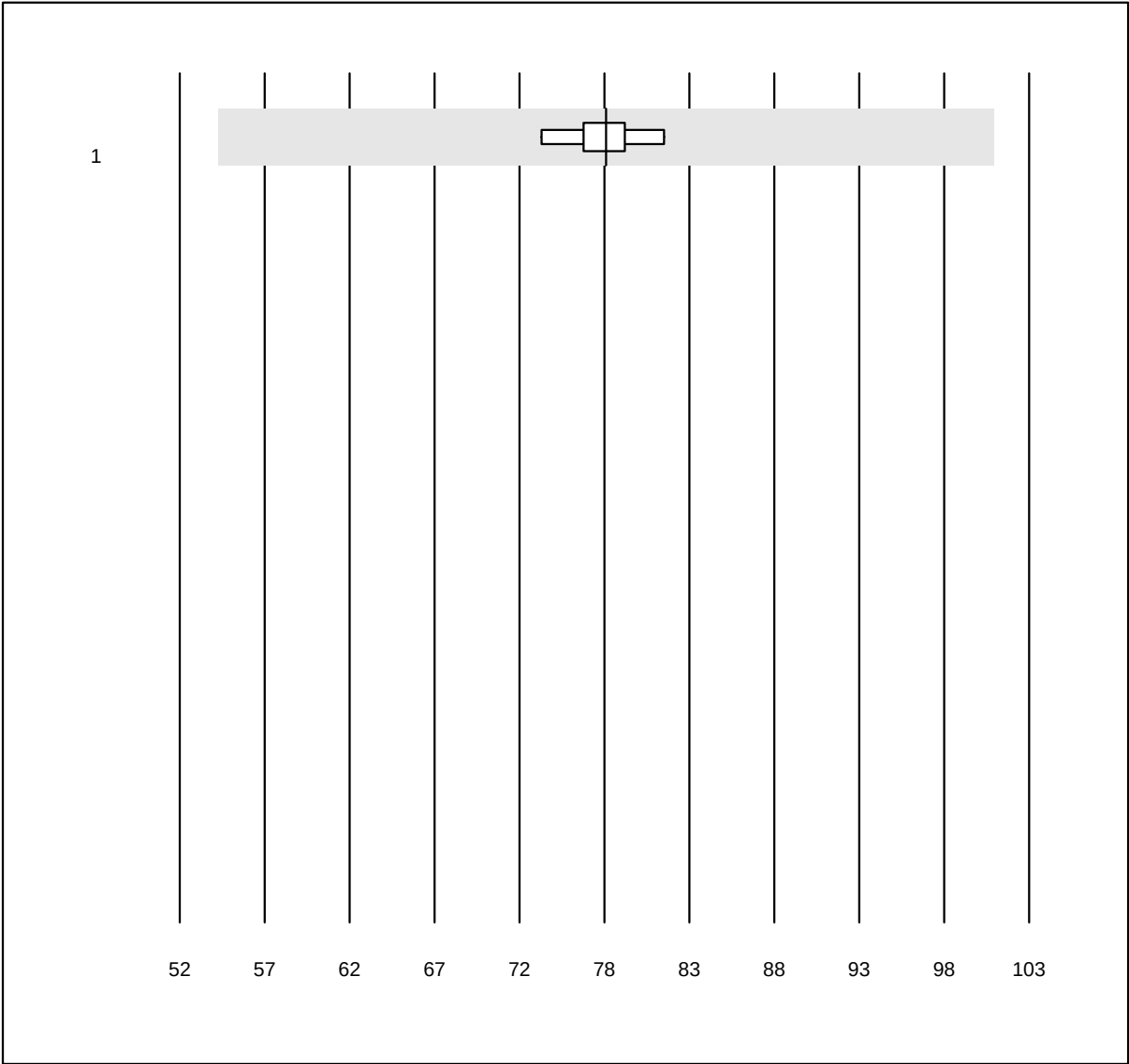


QUALAB Toleranz: 24%

Troponin T (ng/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas hs      | 10    | 100.0 | 0.0       | 0.0       | 302.67       | 5.9  | e    |
| 2 Cobas hs STAT | 24    | 100.0 | 0.0       | 0.0       | 279.04       | 2.8  | e    |

Myoglobin

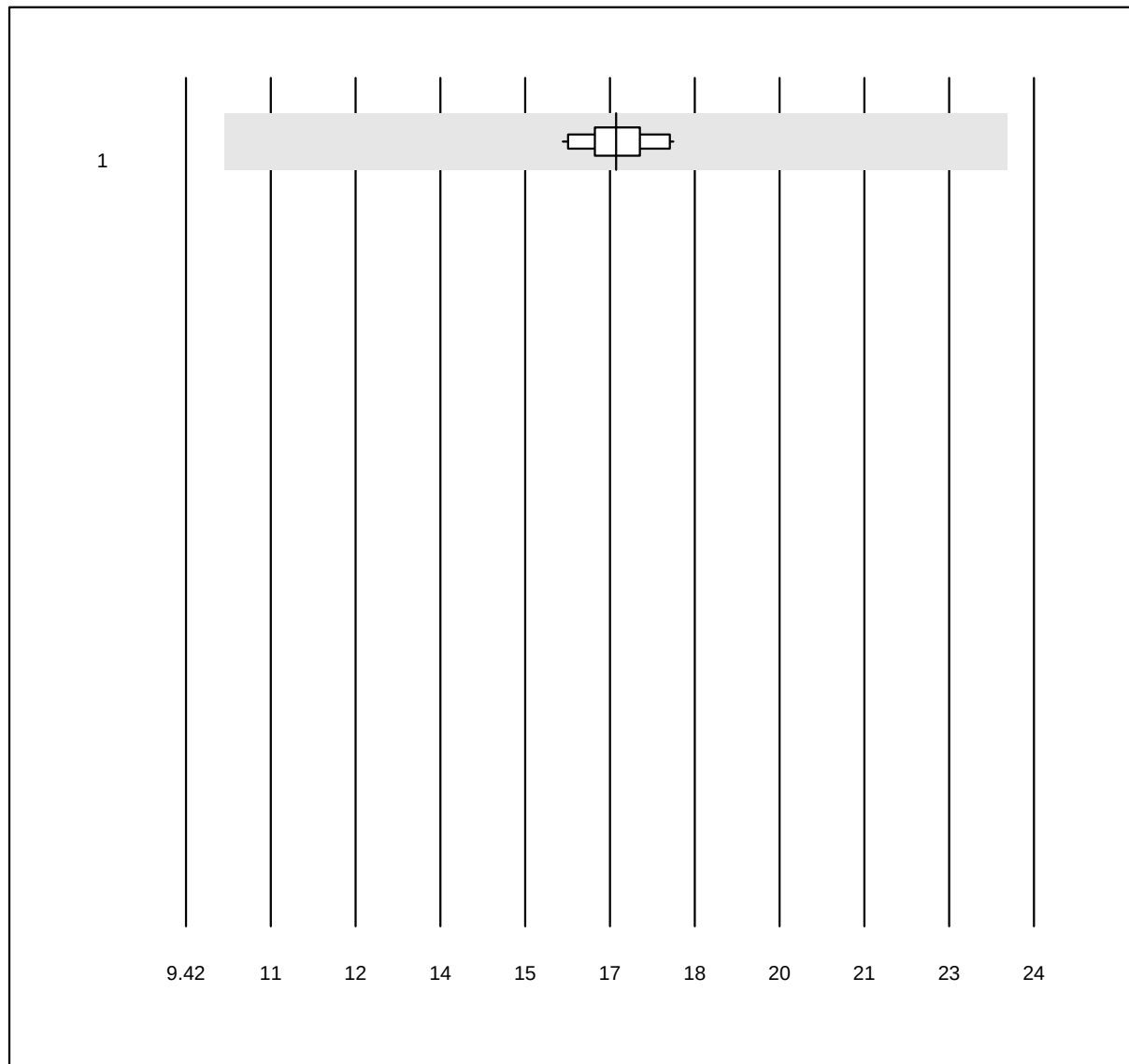


QUALAB Toleranz: 30%

Myoglobin (µg/l)

| No. Methode                                                                                                           |                   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | Cobas E / Elecsys | 10    | 100.0 | 0.0       | 0.0       | 77.6         | 3.1  | e    |
| 3 additional results were submitted but not published because the method groups were too small. (< results per group) |                   |       |       |           |           |              |      |      |

## CK-MB mass



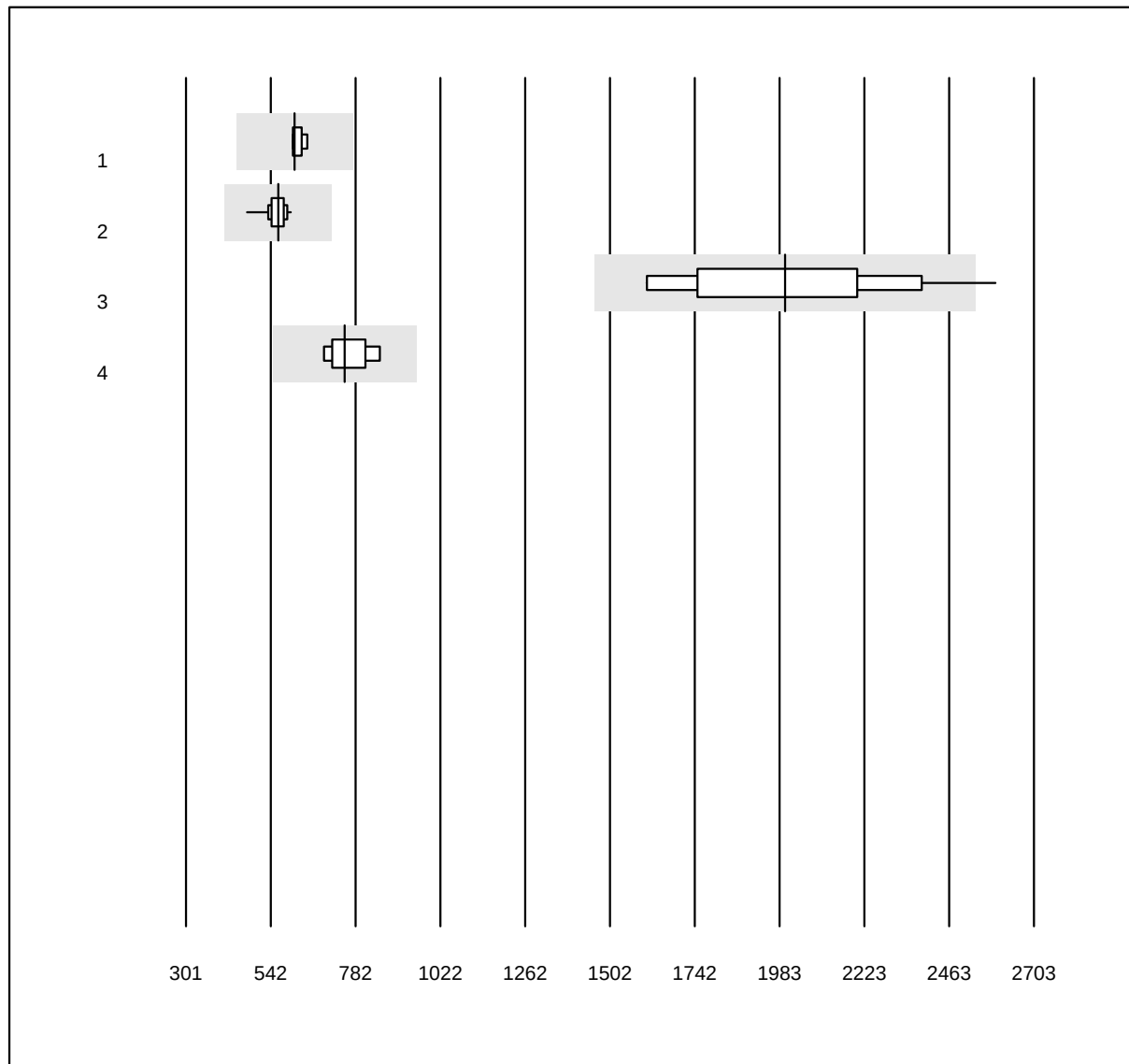
MQ Toleranz: 40%

CK-MB mass (µg/l)

| No. | Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Cobas E / Elecsys | 12    | 100.0 | 0.0       | 0.0       | 16.8         | 3.3  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## NT-proBNP

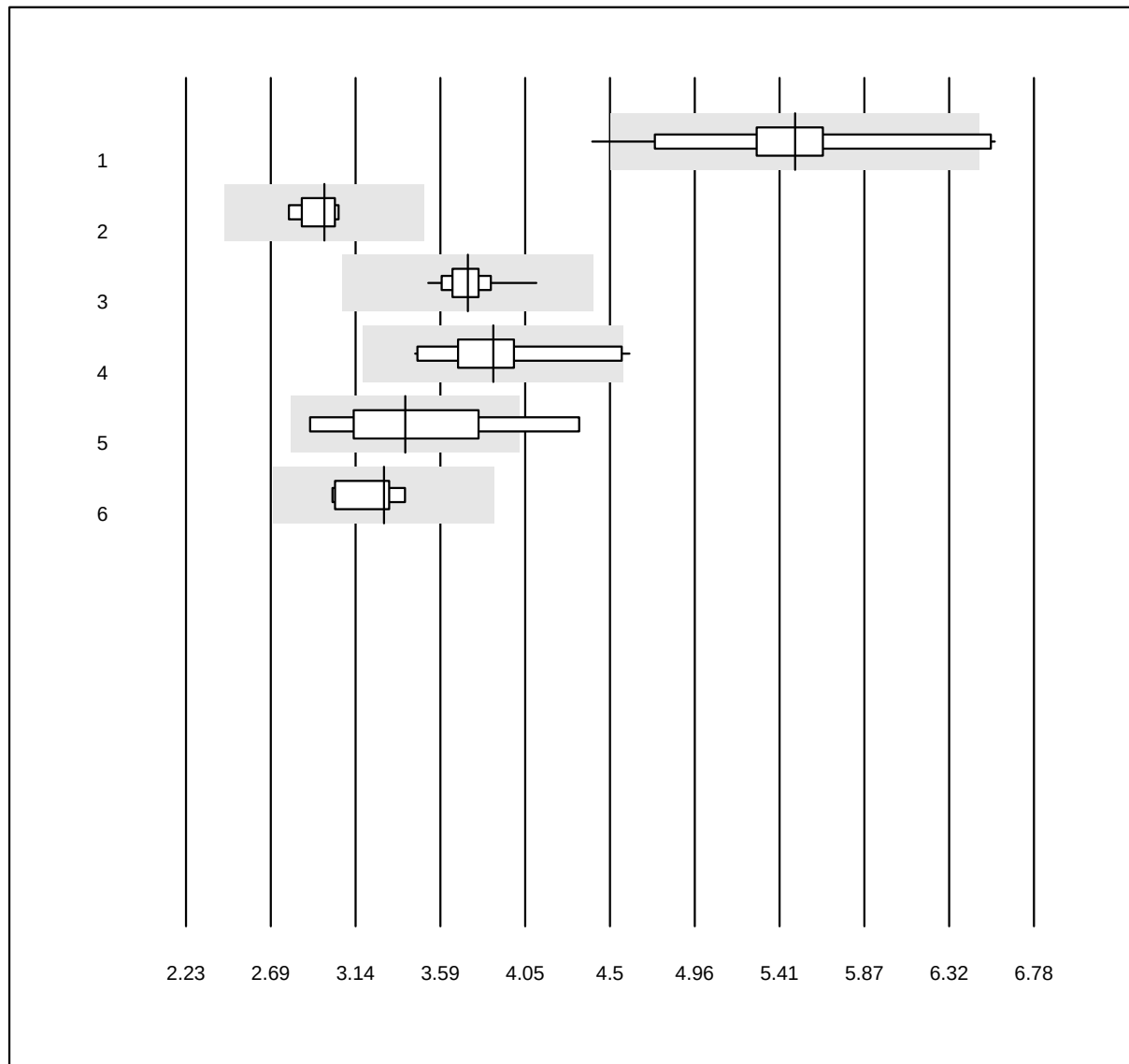


QUALAB Toleranz: 27%

NT-proBNP (ng/l)

| No. Methode         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott            | 4     | 100.0 | 0.0       | 0.0       | 608.5        | 2.3  | e    |
| 2 Cobas E / Elecsys | 29    | 100.0 | 0.0       | 0.0       | 562.5        | 4.6  | e    |
| 3 Pathfast          | 17    | 94.1  | 5.9       | 0.0       | 1998.1       | 14.2 | e*   |
| 4 VIDAS             | 8     | 100.0 | 0.0       | 0.0       | 750.5        | 7.0  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

**TSH**

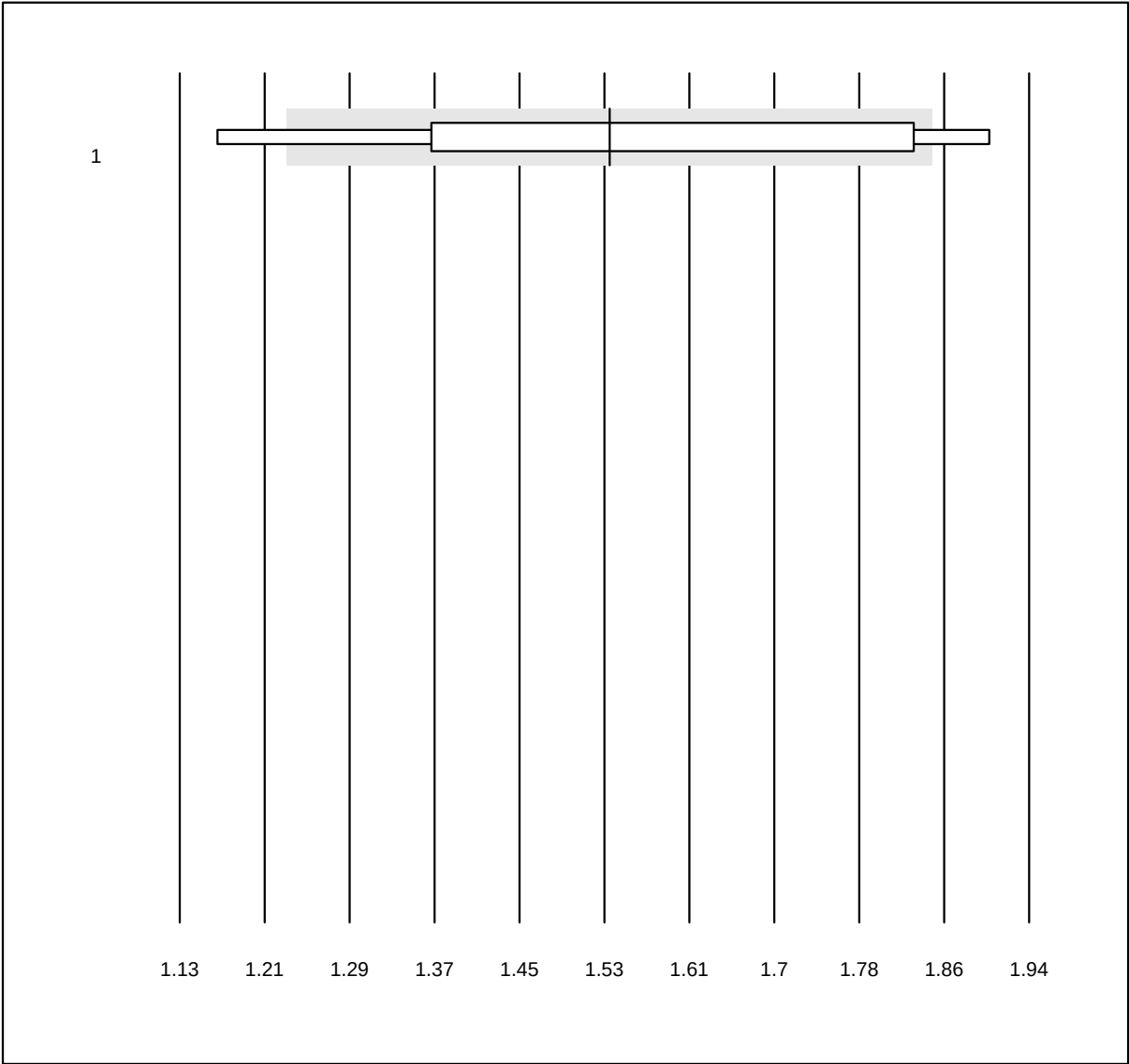
QUALAB Toleranz: 18%

TSH (mU/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS               | 16    | 81.2  | 18.8      | 0.0       | 5.50         | 9.5  | e*   |
| 2 Abbott              | 5     | 100.0 | 0.0       | 0.0       | 2.97         | 3.3  | e    |
| 3 Roche               | 35    | 100.0 | 0.0       | 0.0       | 3.74         | 3.1  | e    |
| 4 VIDAS               | 15    | 93.3  | 6.7       | 0.0       | 3.88         | 8.7  | e*   |
| 5 andere Methoden     | 5     | 80.0  | 20.0      | 0.0       | 3.41         | 11.8 | e*   |
| 6 ADVIA Centaur XP/CP | 6     | 100.0 | 0.0       | 0.0       | 3.29         | 4.8  | e    |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

T3



MQ Toleranz: 20%

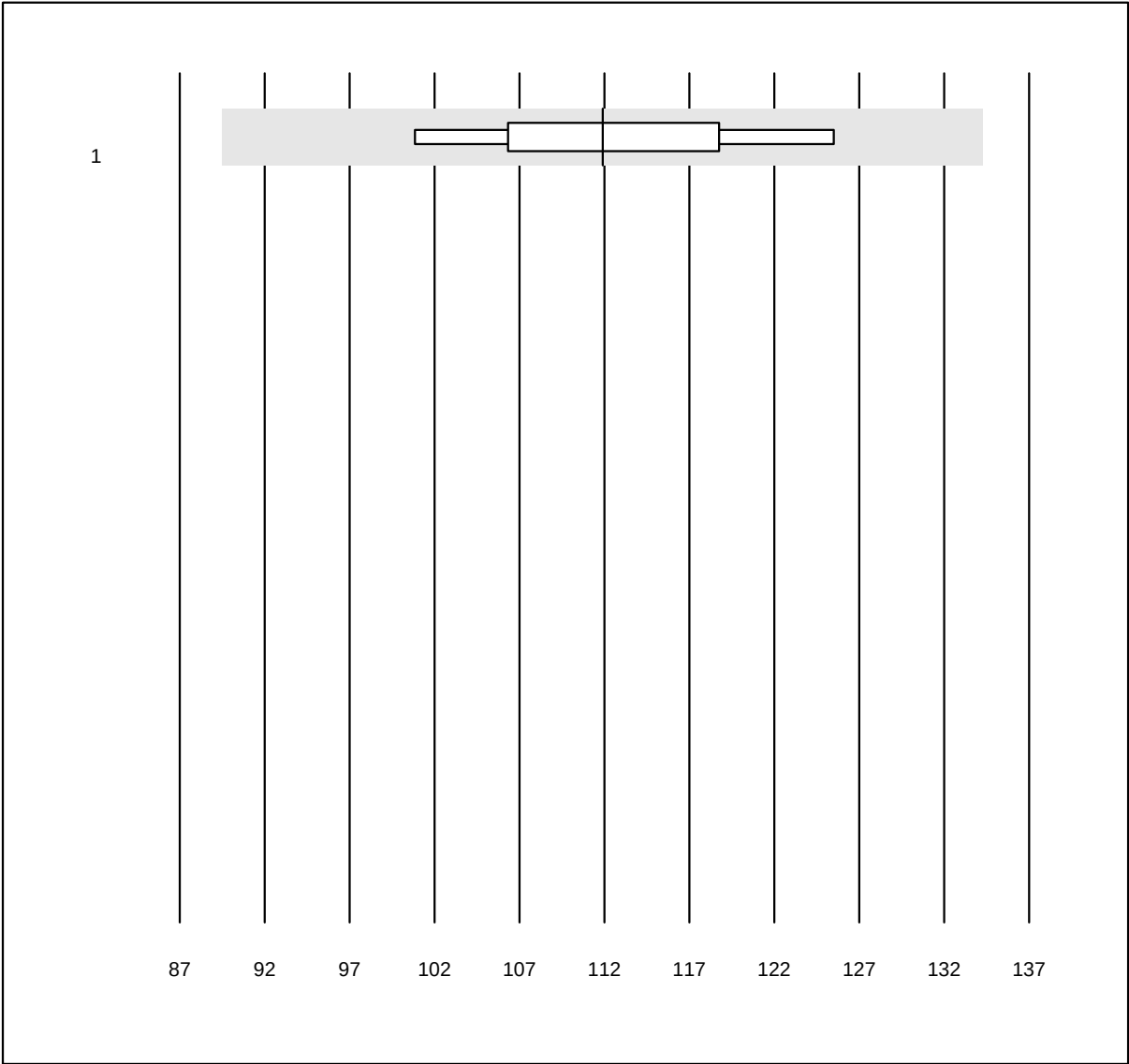
T3 (nmol/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | AFIAS | 4     | 75.0 | 0.0       | 25.0      | 1.5          | 14.6 | e*   |

3 additional results were submitted but not published because the method groups were too small. (< results per group)



T4

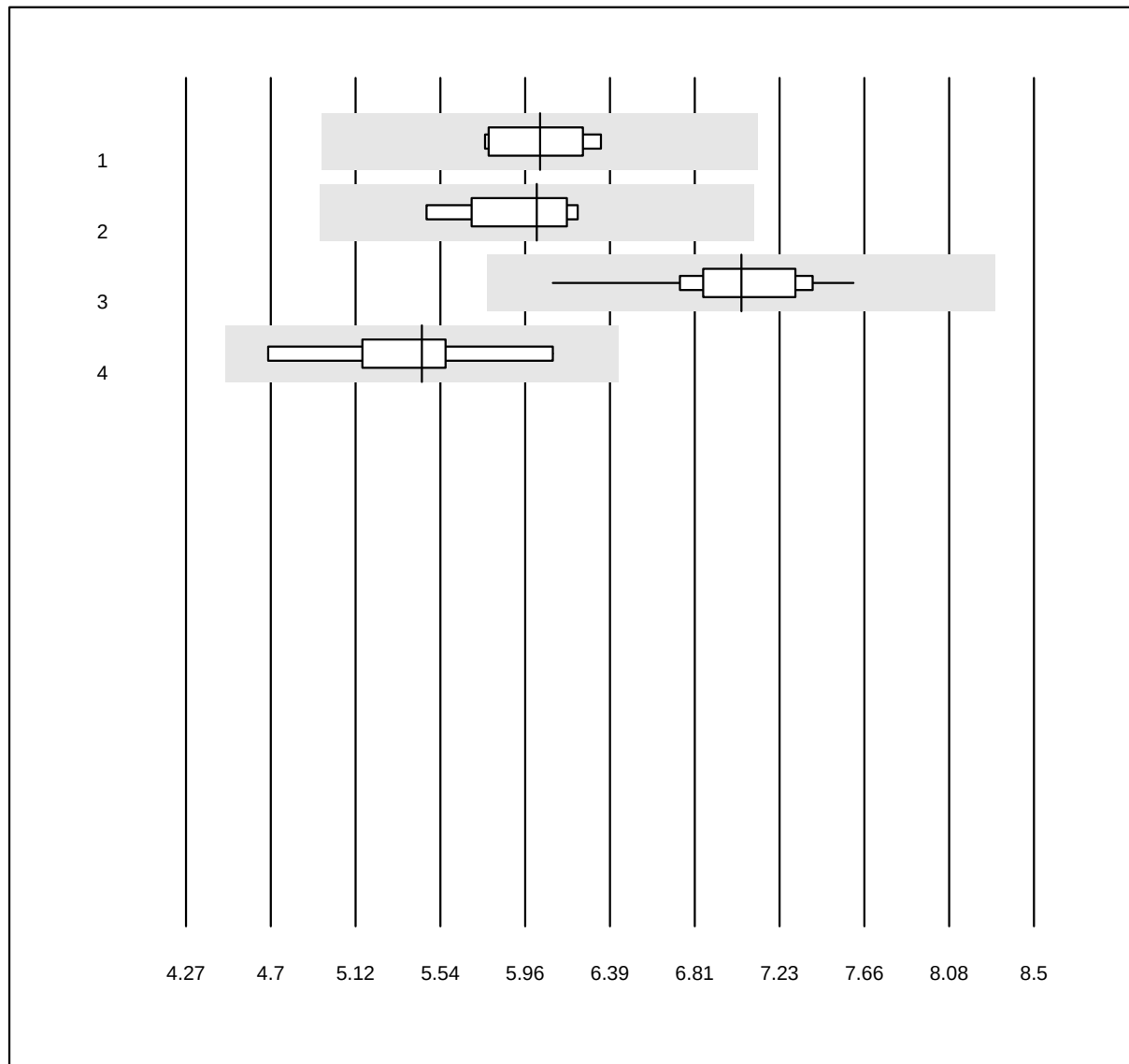


MQ Toleranz: 20%

T4 (nmol/l)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Abbott | 4     | 100.0 | 0.0       | 0.0       | 112          | 6.0  | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

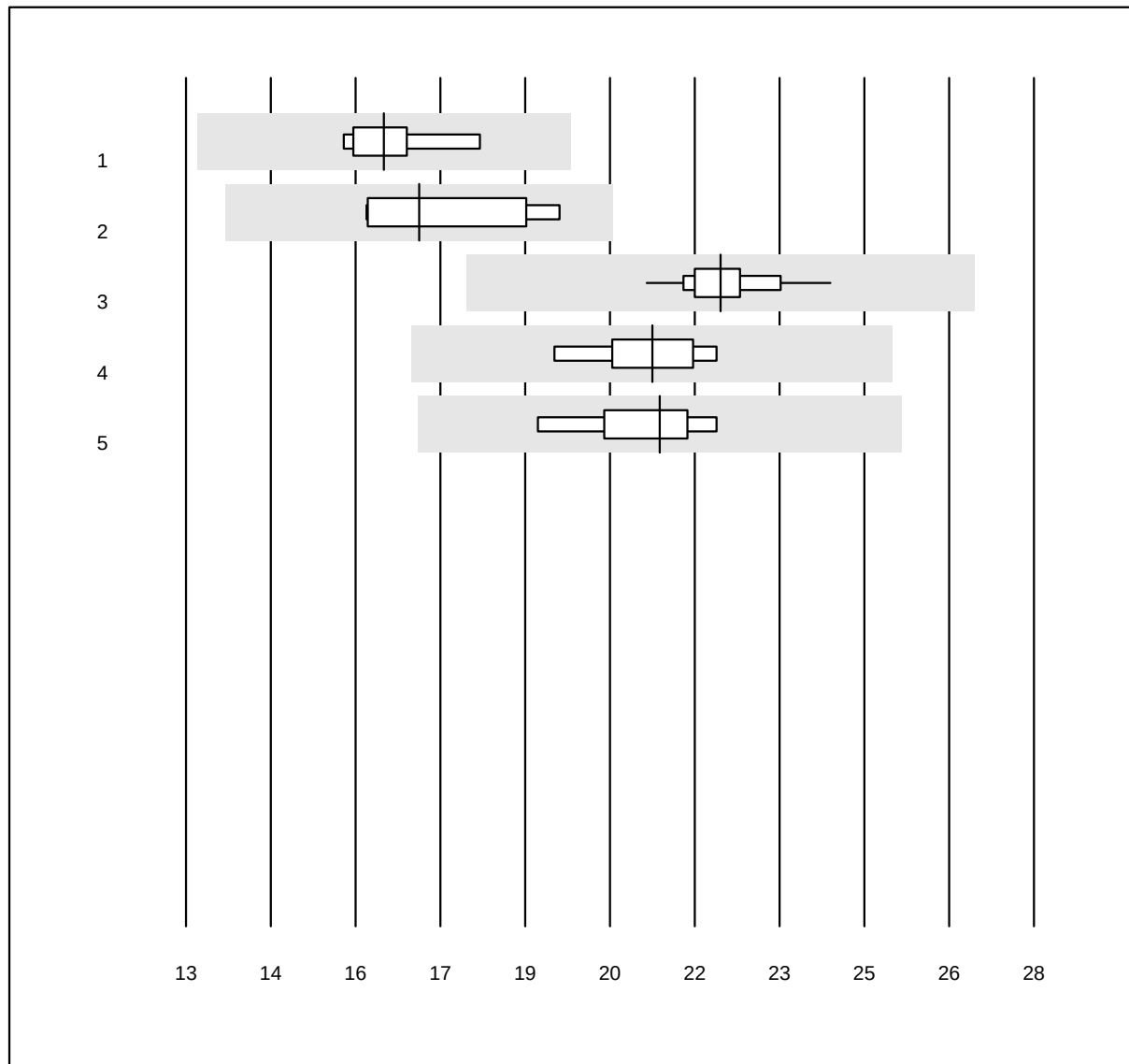
**FT3**

QUALAB Toleranz: 18%

FT3 (pmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP/CP | 5     | 100.0 | 0.0       | 0.0       | 6.0          | 4.0  | e    |
| 2 Abbott              | 5     | 100.0 | 0.0       | 0.0       | 6.0          | 4.4  | e    |
| 3 Roche               | 31    | 100.0 | 0.0       | 0.0       | 7.0          | 4.4  | e    |
| 4 VIDAS               | 9     | 100.0 | 0.0       | 0.0       | 5.4          | 7.5  | e*   |

2 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

**FT4**

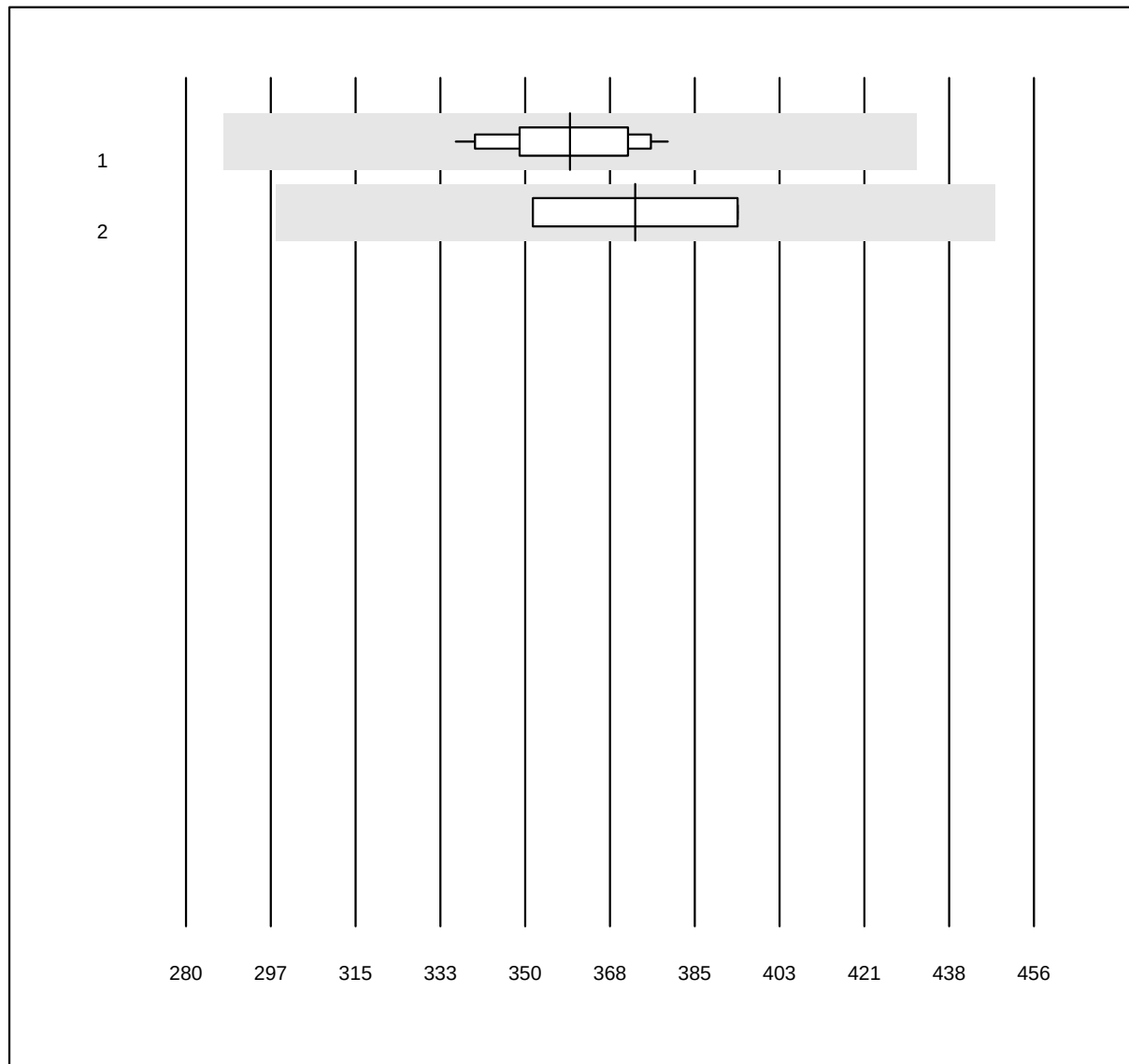
QUALAB Toleranz: 20%

FT4 (pmol/l)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP | 6     | 100.0 | 0.0       | 0.0       | 16.5         | 4.3  | e    |
| 2 Abbott           | 6     | 100.0 | 0.0       | 0.0       | 17.1         | 7.8  | e*   |
| 3 Roche            | 31    | 100.0 | 0.0       | 0.0       | 22.5         | 3.1  | e    |
| 4 VIDAS            | 8     | 100.0 | 0.0       | 0.0       | 21.3         | 4.3  | e    |
| 5 andere Methoden  | 7     | 100.0 | 0.0       | 0.0       | 21.4         | 4.7  | e    |

1 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

## Cortisol



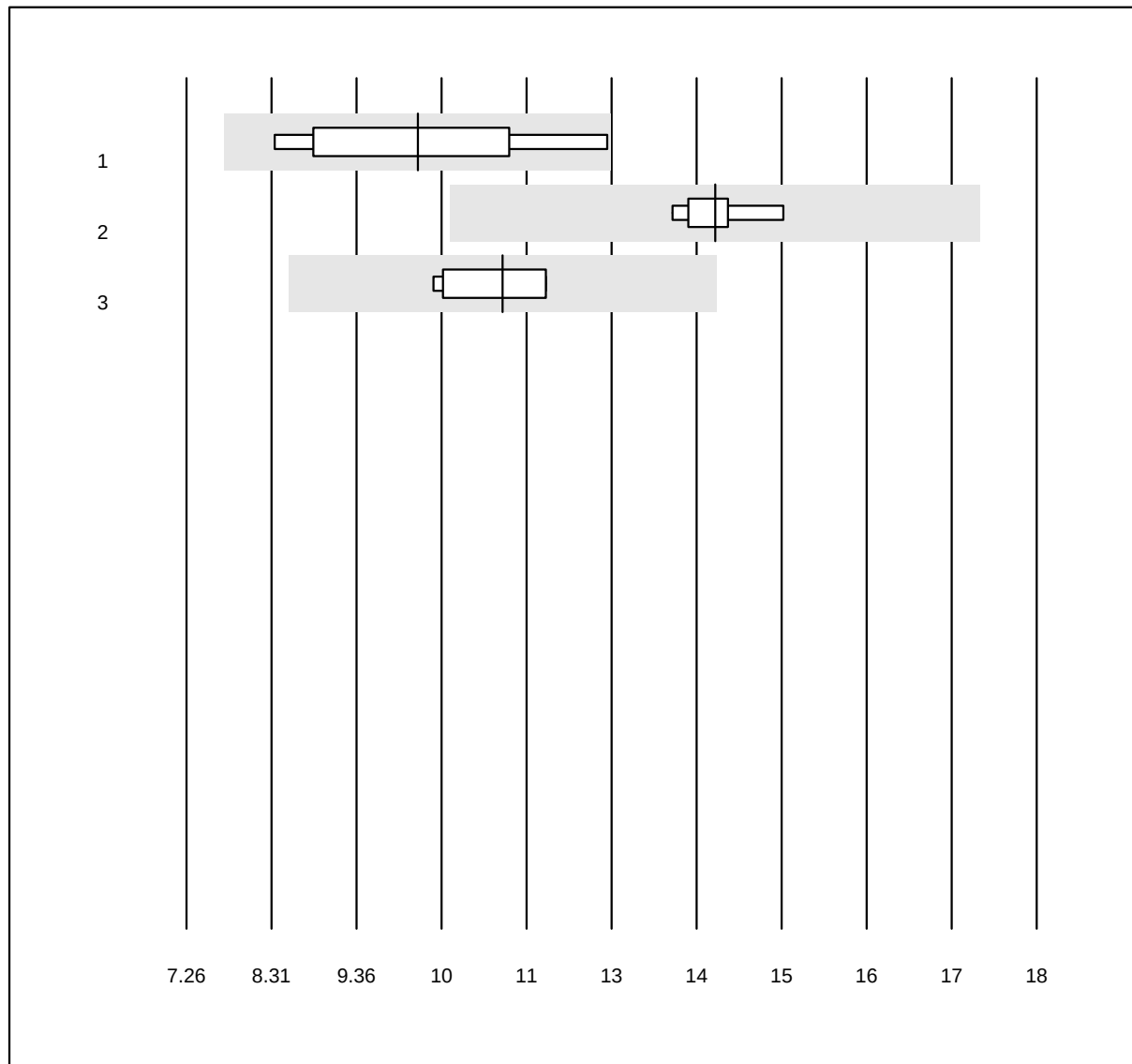
QUALAB Toleranz: 20%

Cortisol (nmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche     | 24    | 100.0 | 0.0       | 0.0       | 360          | 3.7  | e    |
| 2 Siemens   | 4     | 100.0 | 0.0       | 0.0       | 373          | 6.6  | e*   |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Luteinizing hormone



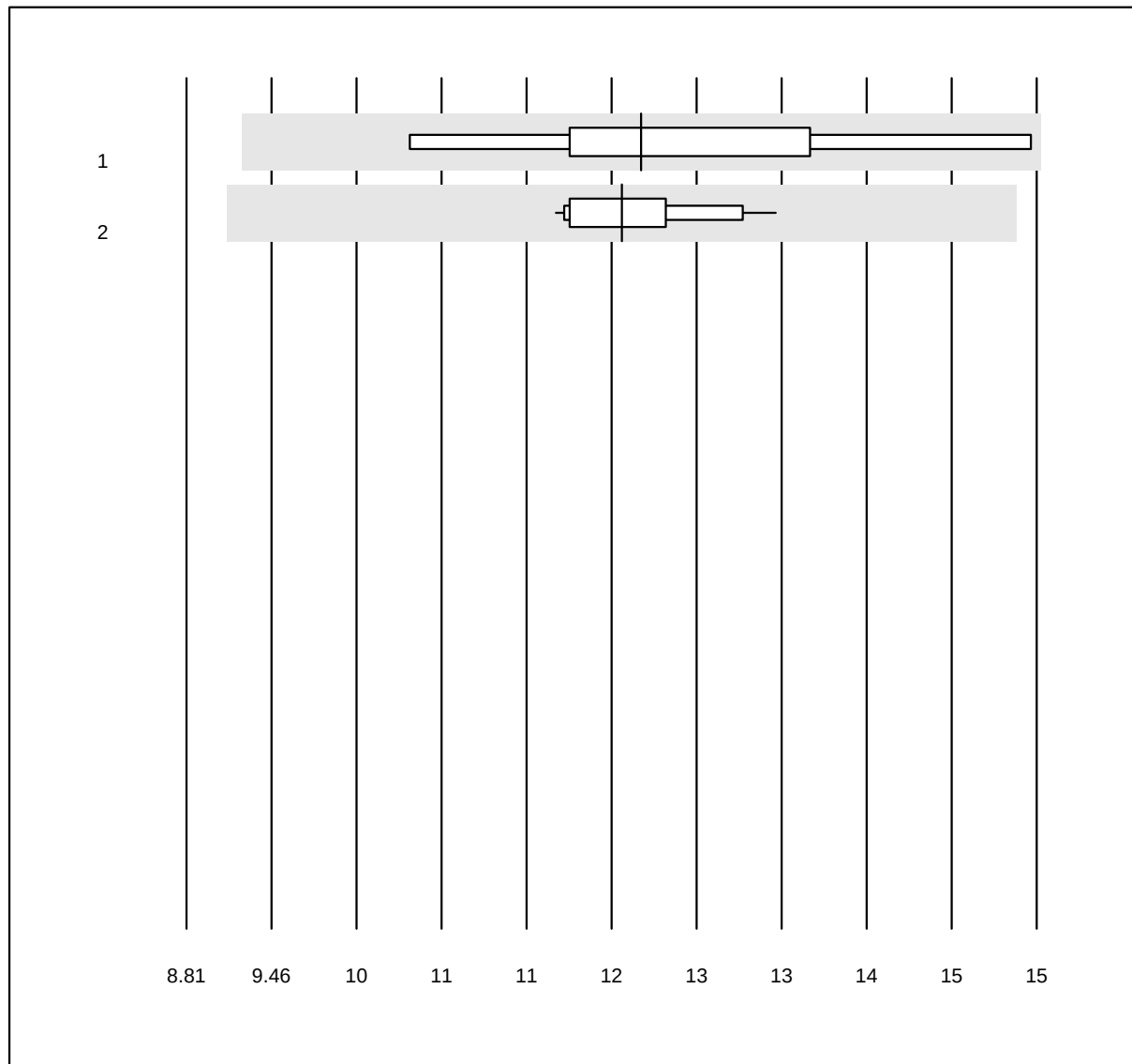
QUALAB Toleranz: 24%

Luteinizing hormone (U/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Abbott  | 4     | 100.0 | 0.0       | 0.0       | 10.2         | 13.2 | e*   |
| 2   | Roche   | 15    | 100.0 | 0.0       | 0.0       | 13.9         | 3.1  | e    |
| 3   | Siemens | 7     | 100.0 | 0.0       | 0.0       | 11.3         | 5.0  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Follicle-stimulating hormone



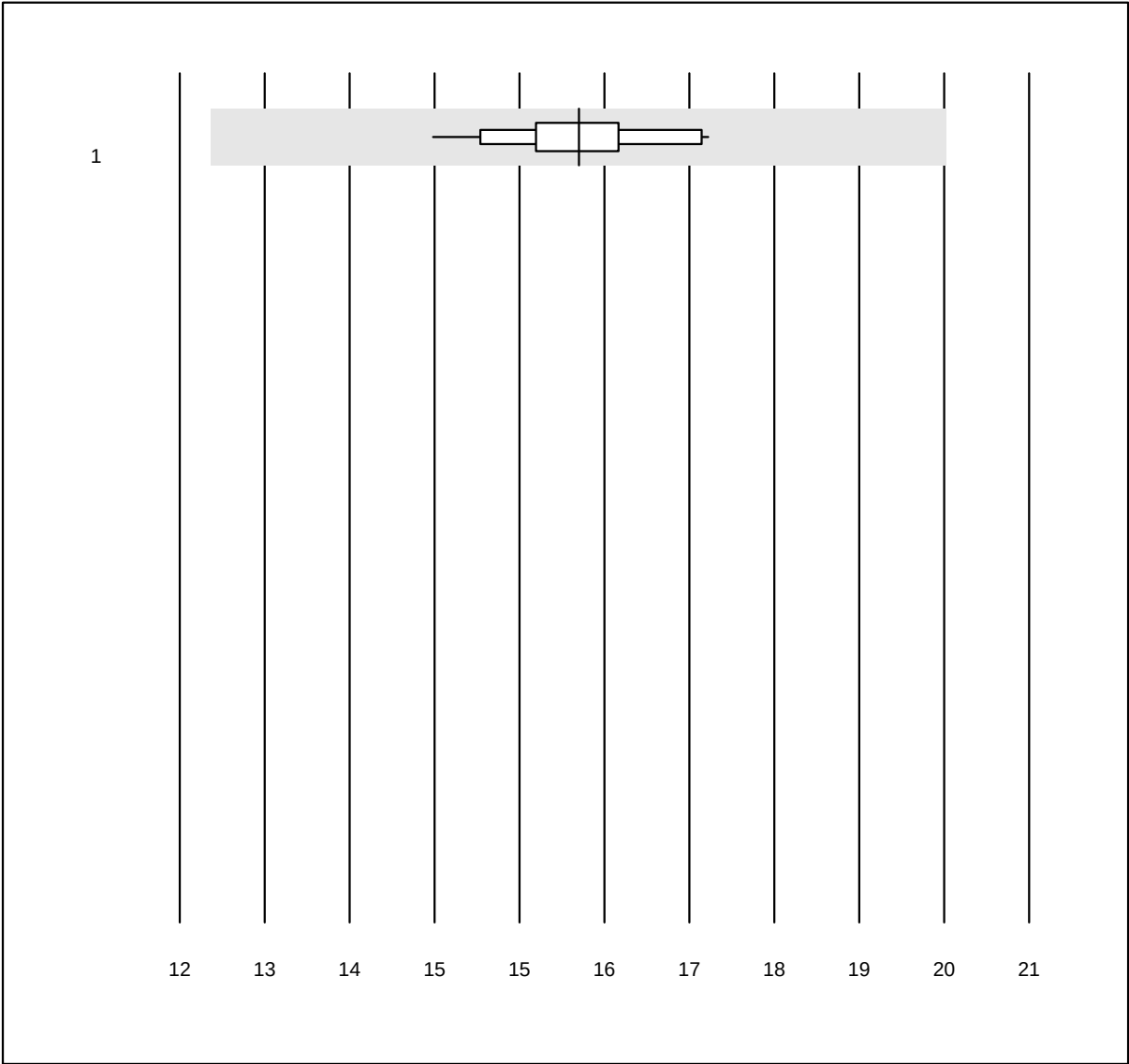
QUALAB Toleranz: 24%

Follicle-stimulating hormone  
(U/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP/CP | 7     | 100.0 | 0.0       | 0.0       | 12.1         | 10.9 | e*   |
| 2 Roche               | 15    | 100.0 | 0.0       | 0.0       | 12.0         | 3.8  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Prolactin (PRL)



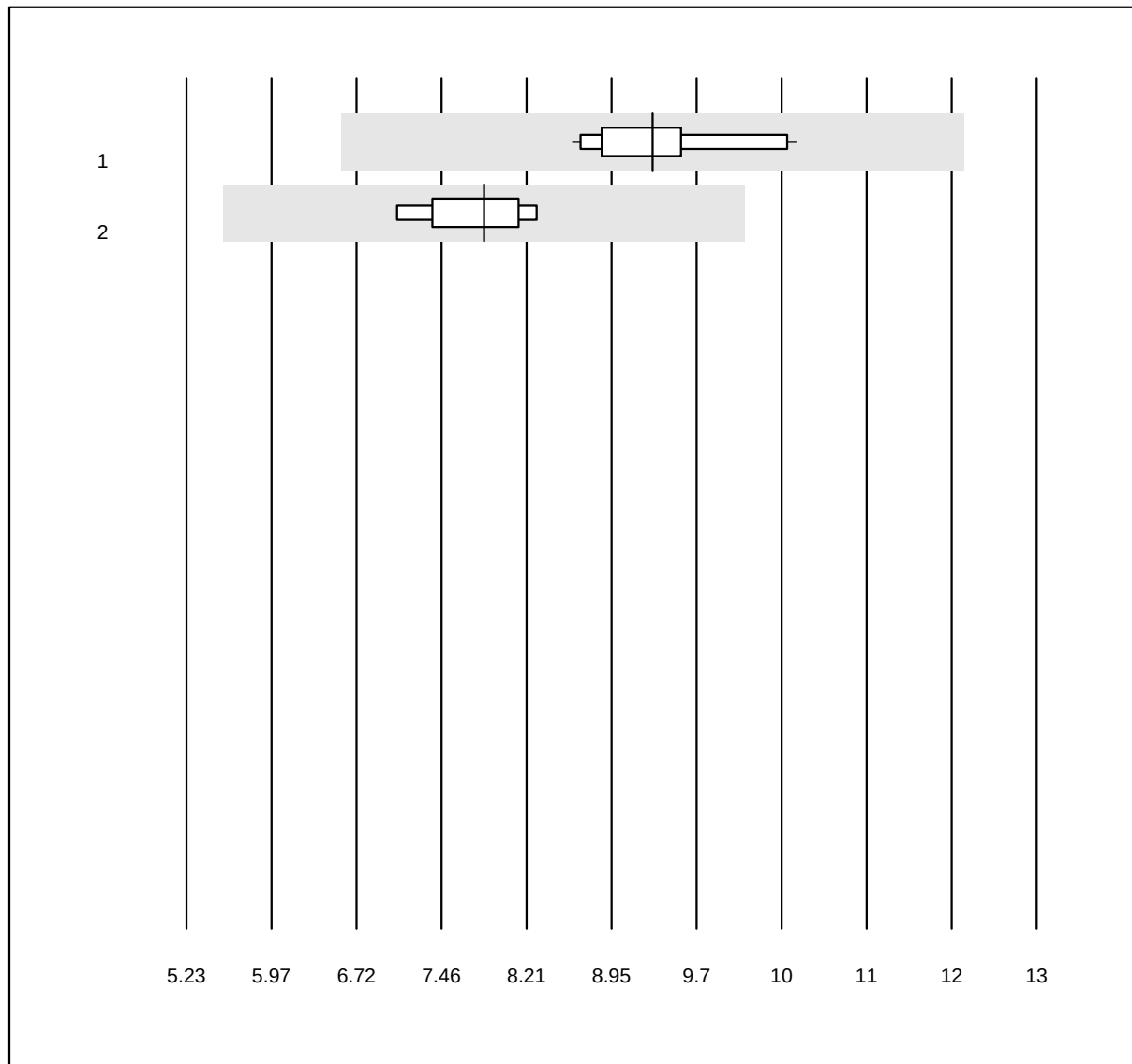
QUALAB Toleranz: 24%

Prolactin (PRL) (µg/l)

| No. Methode |             | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas/Roche | 16    | 100.0 | 0.0       | 0.0       | 16.2         | 4.5  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Testosterone



QUALAB Toleranz: 30%

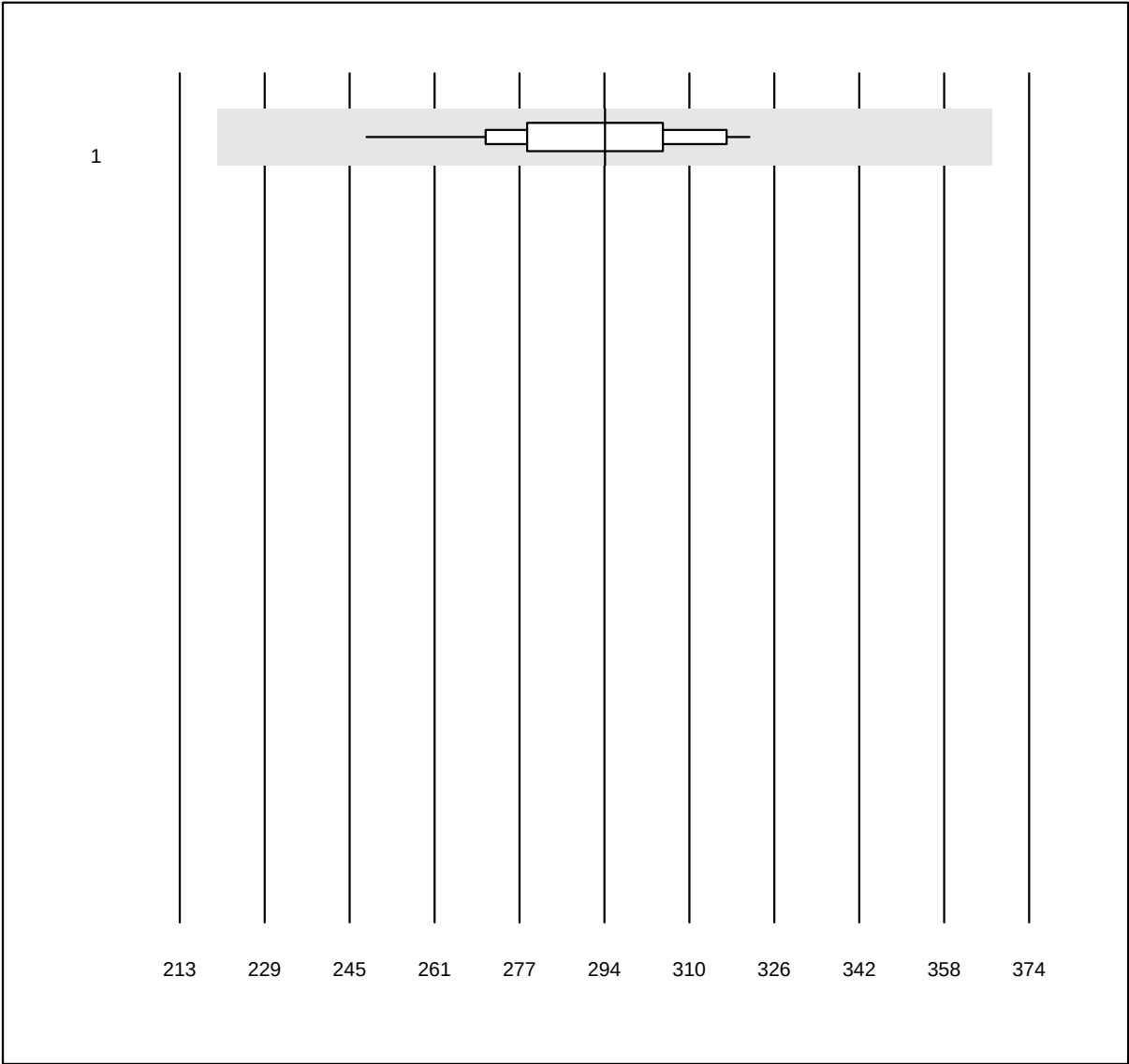
Testosterone (nmol/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 17    | 100.0 | 0.0       | 0.0       | 9.5          | 6.2  | e    |
| 2   | Siemens | 4     | 100.0 | 0.0       | 0.0       | 8.0          | 5.2  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)



Insulin



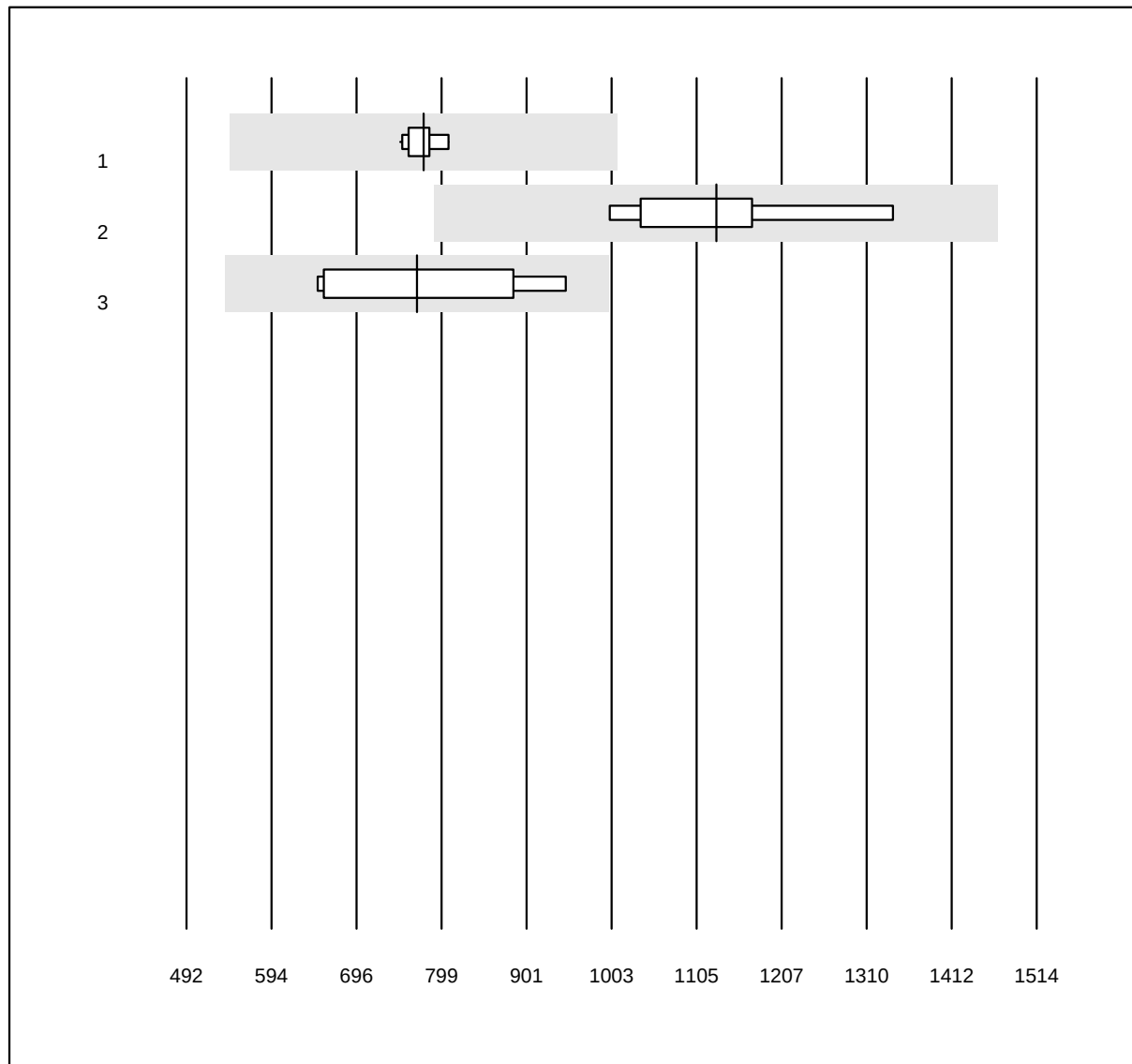
MQ Toleranz: 25%

Insulin (pmol/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Roche | 20    | 95.0 | 0.0       | 5.0       | 294          | 6.2  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Estradiol

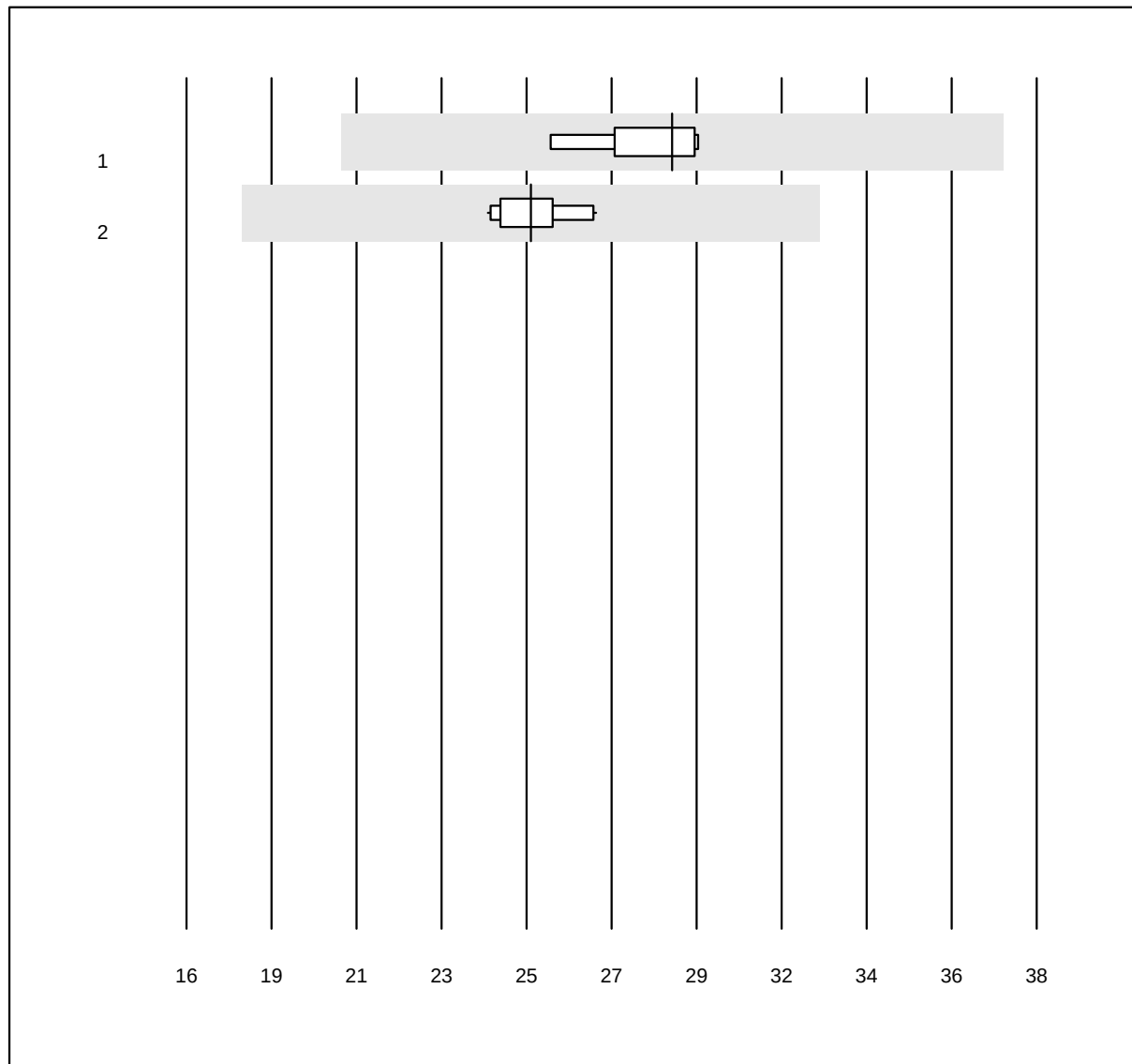


QUALAB Toleranz: 30%

Estradiol (pmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 15    | 100.0 | 0.0       | 0.0       | 777          | 2.4  | e    |
| 2 Siemens         | 7     | 100.0 | 0.0       | 0.0       | 1129         | 9.0  | e    |
| 3 andere Methoden | 7     | 100.0 | 0.0       | 0.0       | 769          | 15.5 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

**SHBG**

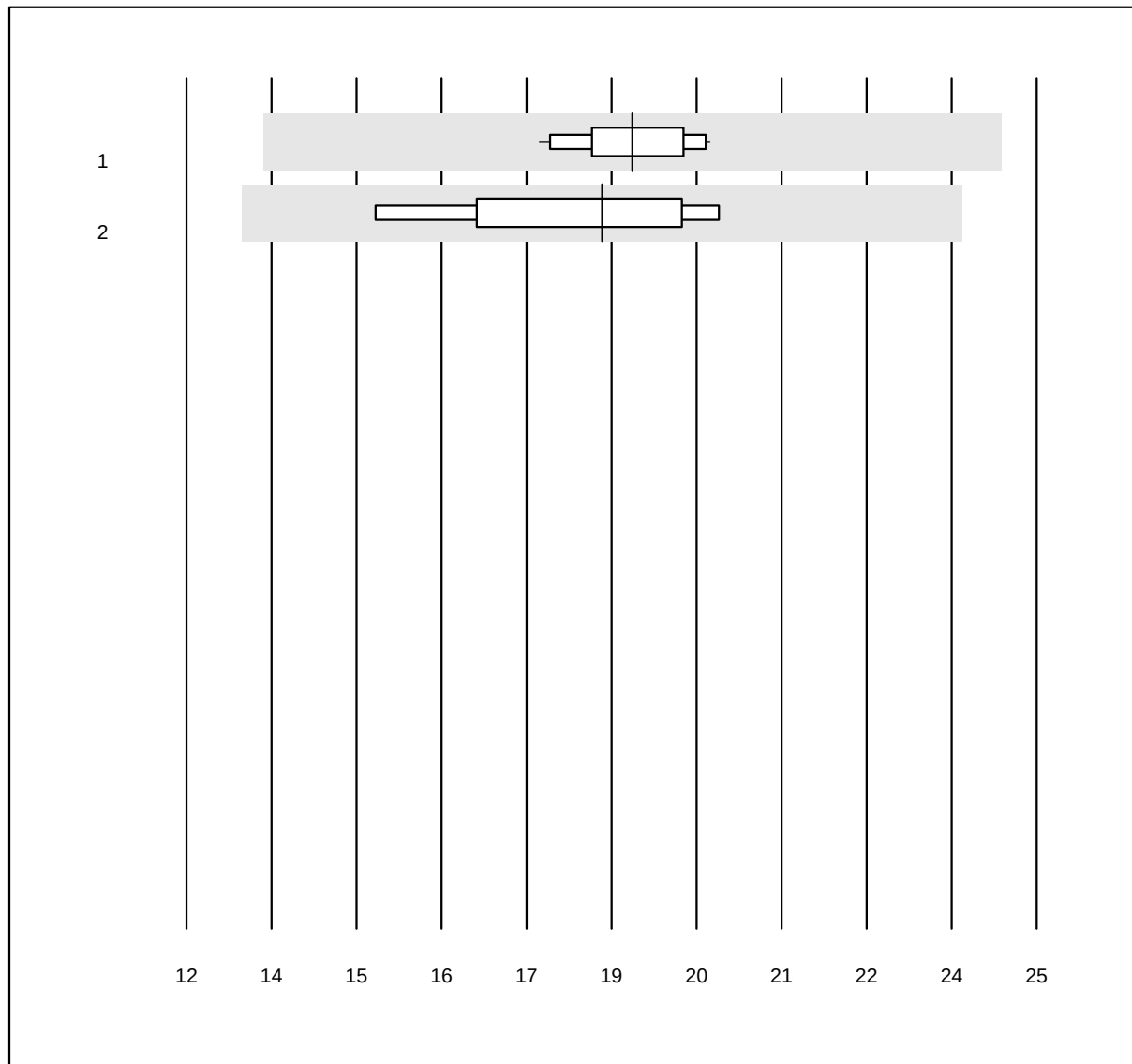
MQ Toleranz: 30%

SHBG (nmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 5     | 100.0 | 0.0       | 0.0       | 28.6         | 4.4  | e    |
| 2 Roche     | 16    | 100.0 | 0.0       | 0.0       | 24.9         | 3.7  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Progesteron



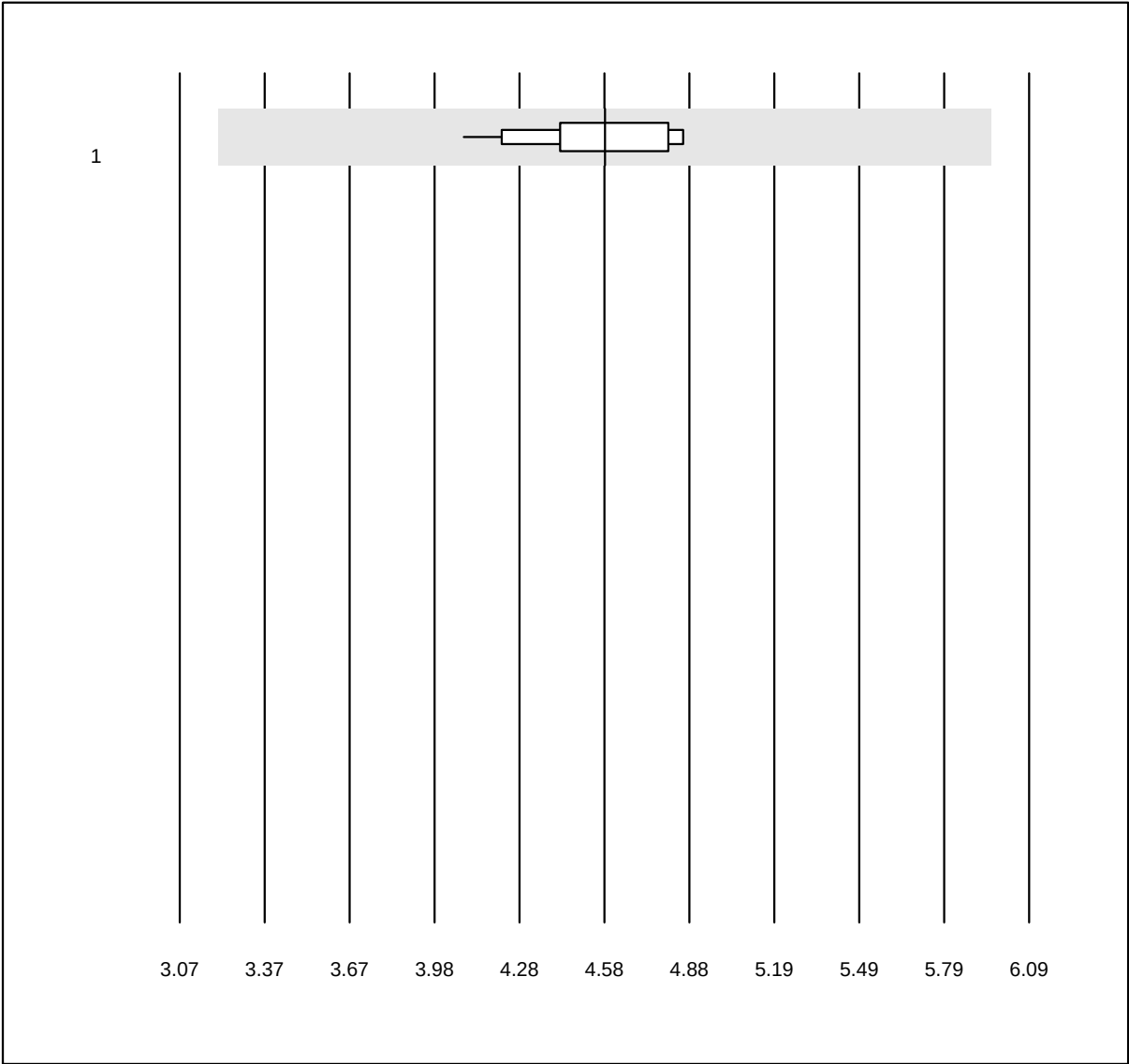
MQ Toleranz: 30%

Progesteron (nmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 11    | 100.0 | 0.0       | 0.0       | 18.8         | 4.4  | e    |
| 2 andere Methoden | 5     | 100.0 | 0.0       | 0.0       | 18.4         | 9.4  | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

DHEAS



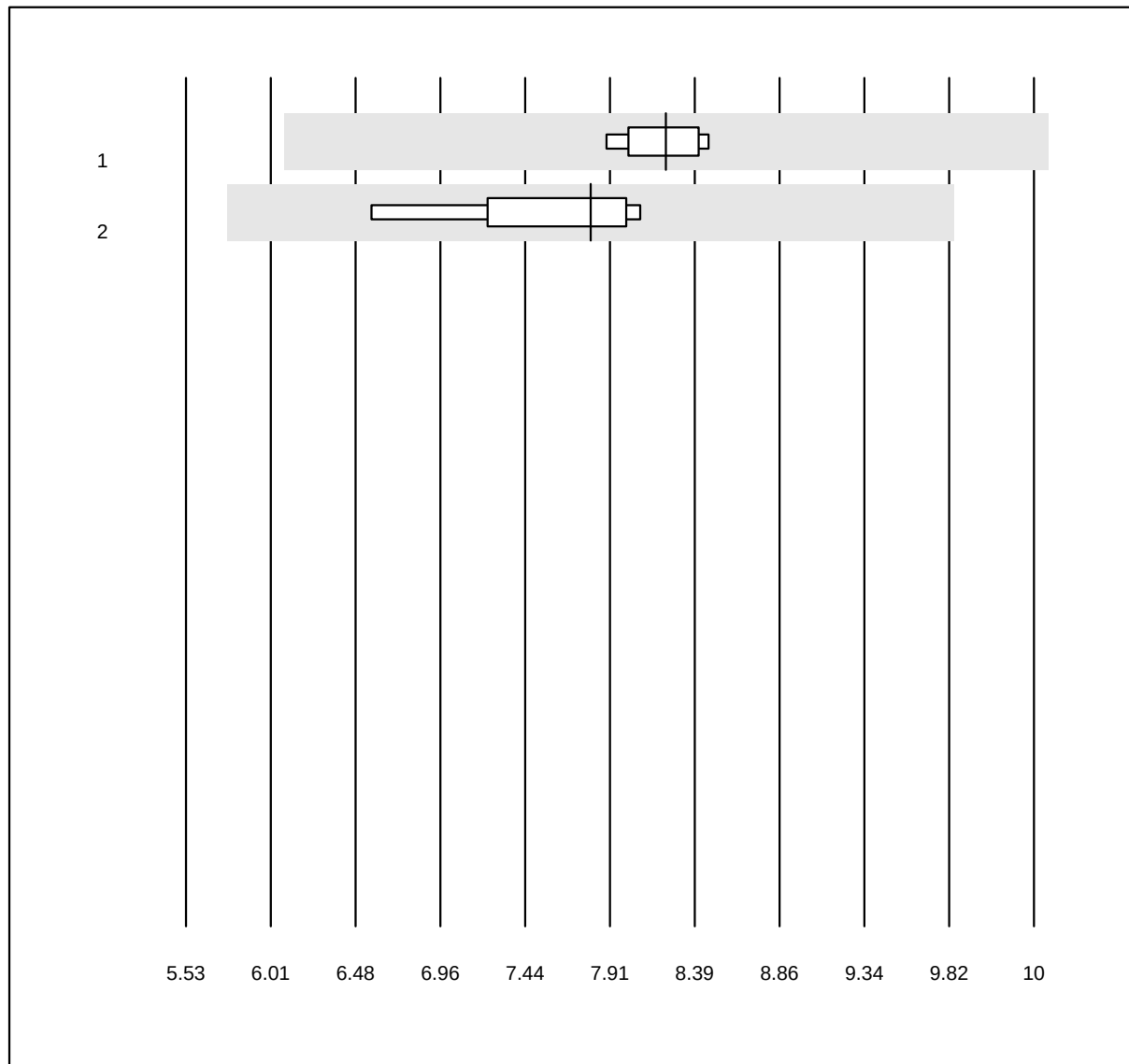
MQ Toleranz: 30%

DHEAS (μmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 14    | 100.0 | 0.0       | 0.0       | 4.58         | 4.9  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## HGH

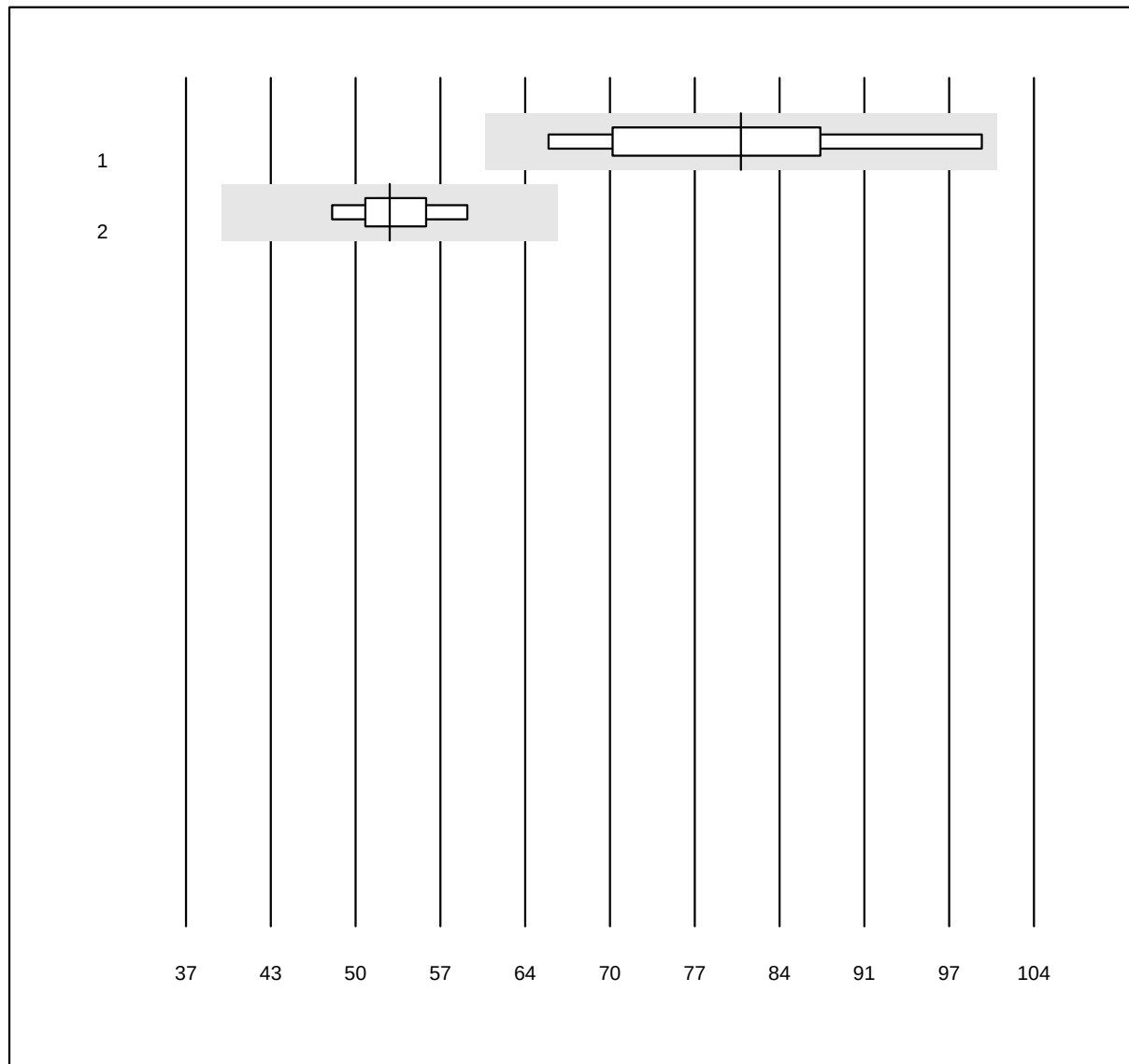


MQ Toleranz: 25%

HGH (µg/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alle Methoden | 6     | 100.0 | 0.0       | 0.0       | 8.06         | 2.4  | e    |
| 2 Liaison       | 5     | 100.0 | 0.0       | 0.0       | 7.66         | 6.0  | e    |

## IGF-1

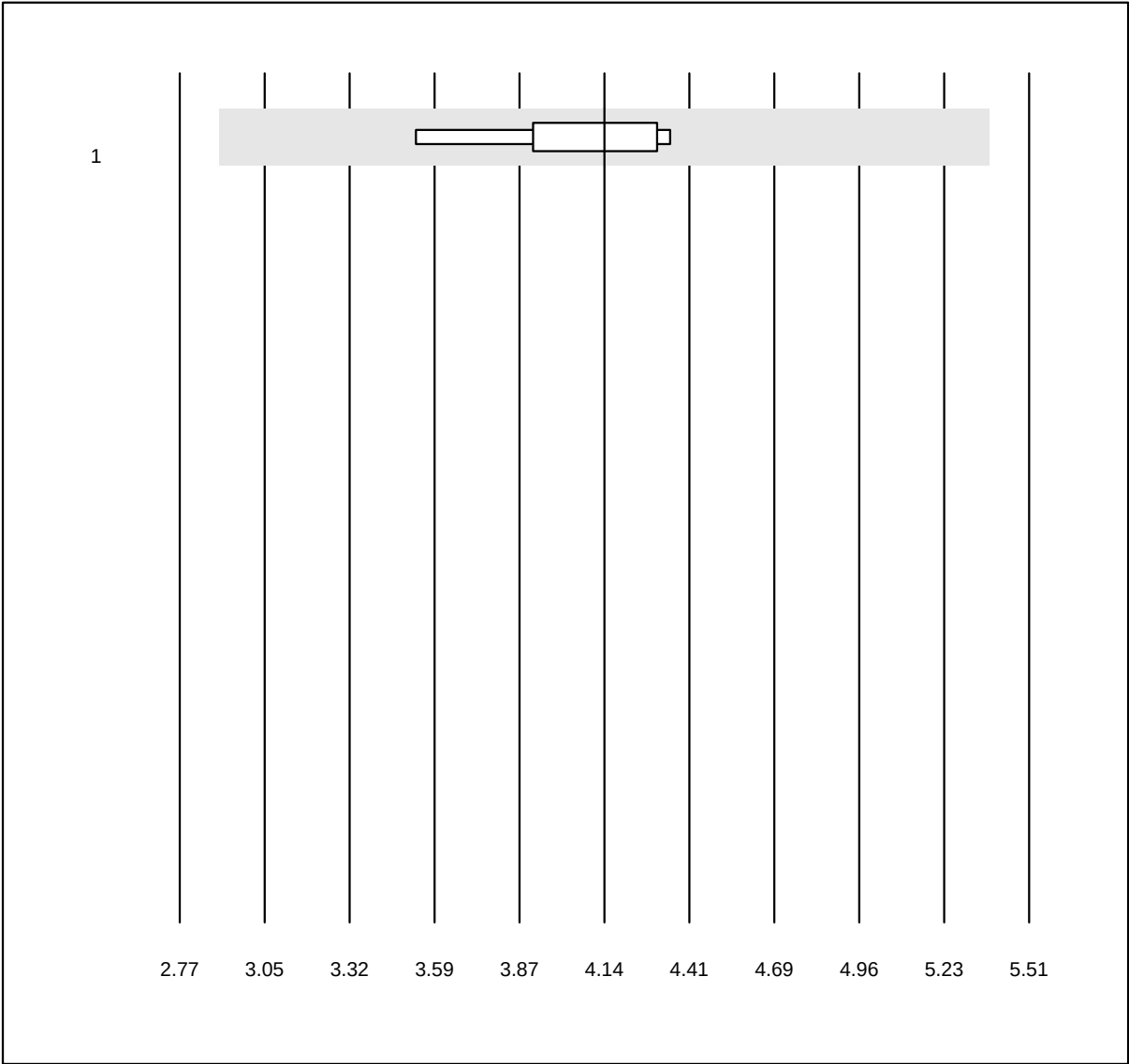


MQ Toleranz: 25%

IGF-1 (µg/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Liaison         | 8     | 100.0 | 0.0       | 0.0       | 81           | 13.2 | e*   |
| 2 andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 53           | 5.8  | e    |

Androstendion



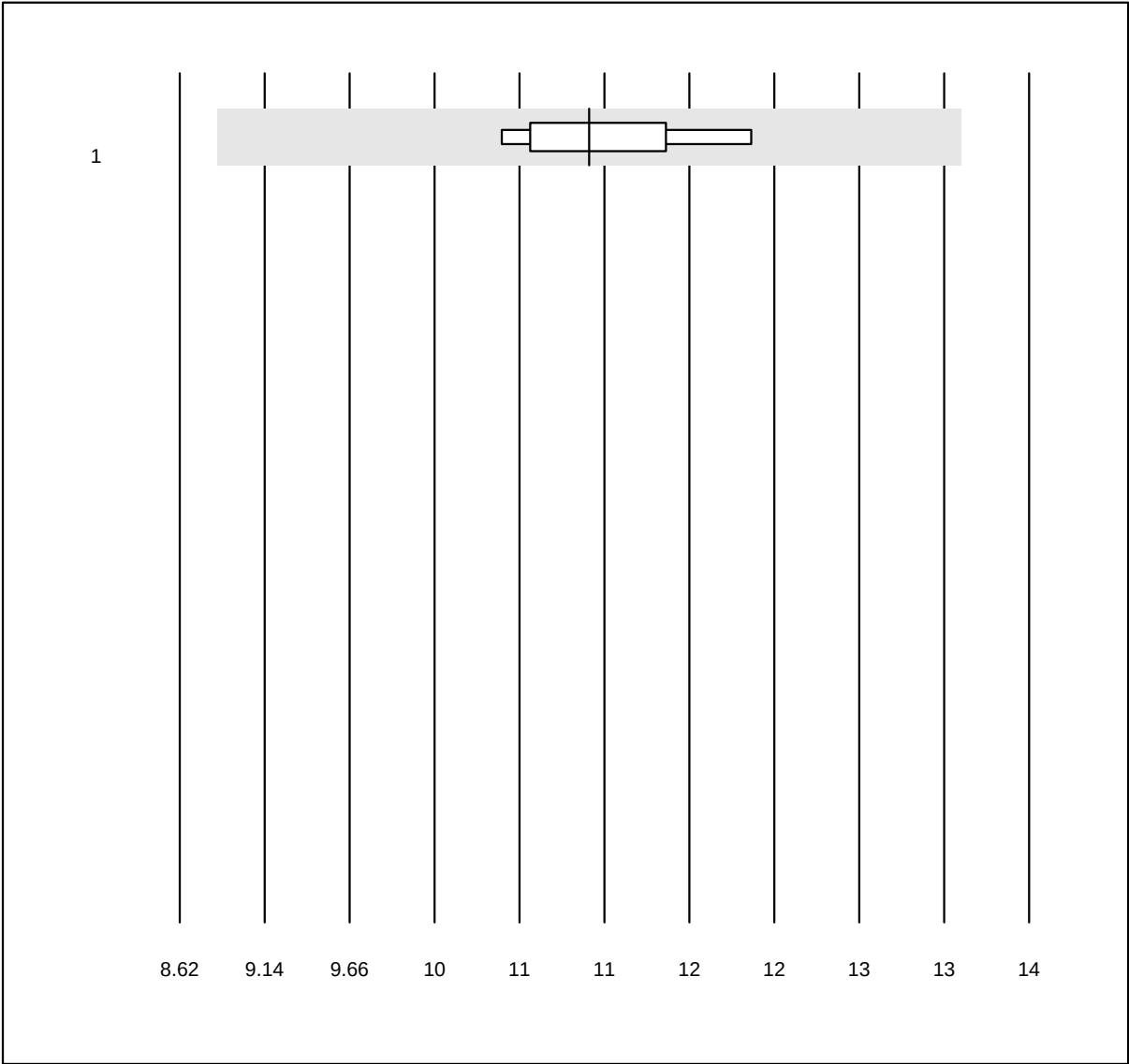
MQ Toleranz: 30%

Androstendion (nmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 6     | 100.0 | 0.0       | 0.0       | 4.1          | 6.2  | e    |



Beta-HCG total



QUALAB Toleranz: 21%

Beta-HCG total (U/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 5     | 100.0 | 0.0       | 0.0       | 11.2         | 4.3  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Troponin T CR

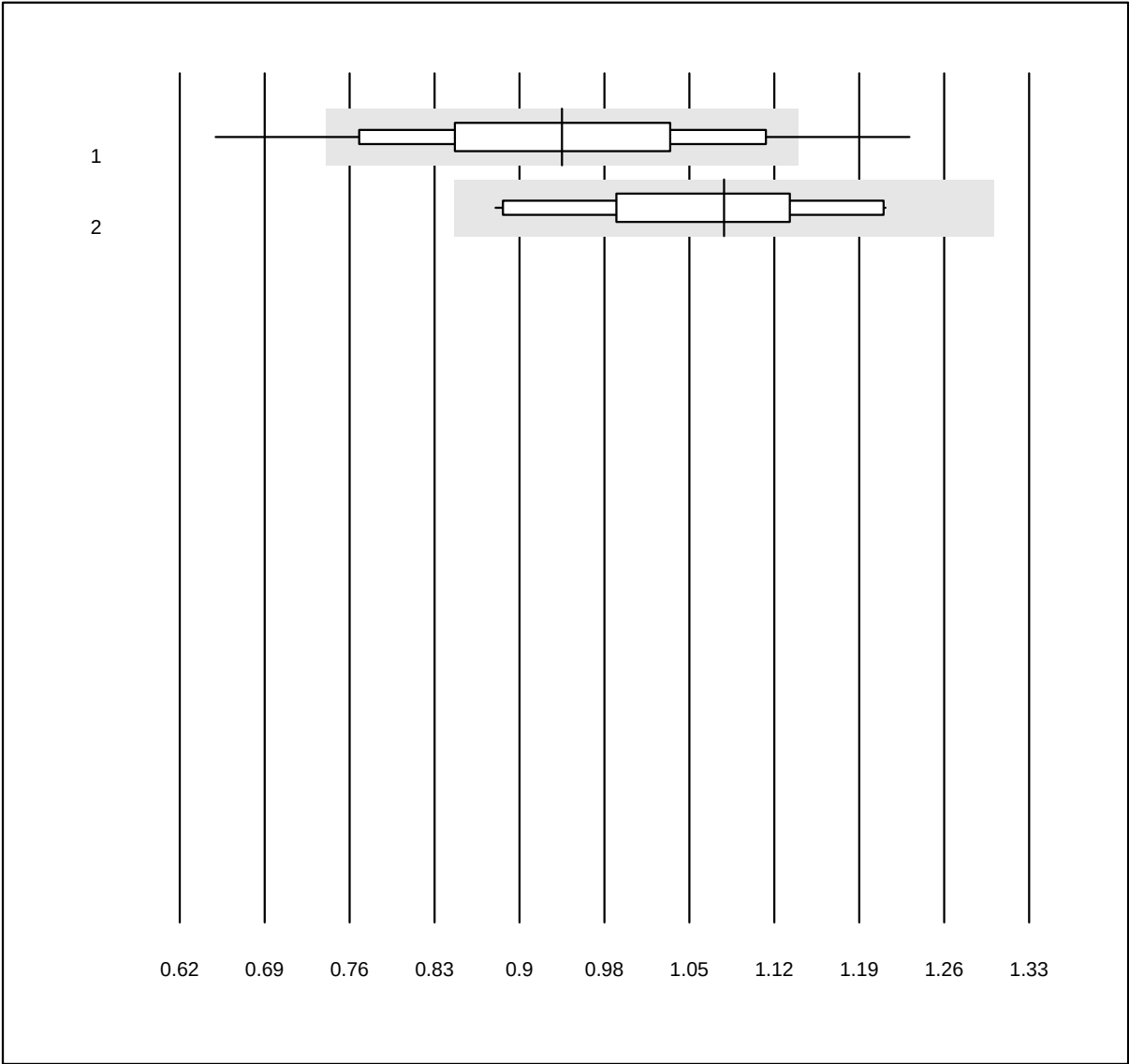


QUALAB Toleranz: 24%

Troponin T CR (ng/l)

| No. Methode |             | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Cobas h 232 | 301   | 89.7 | 7.3       | 3.0       | 91.60        | 13.2 | e    |

D-dimer CR

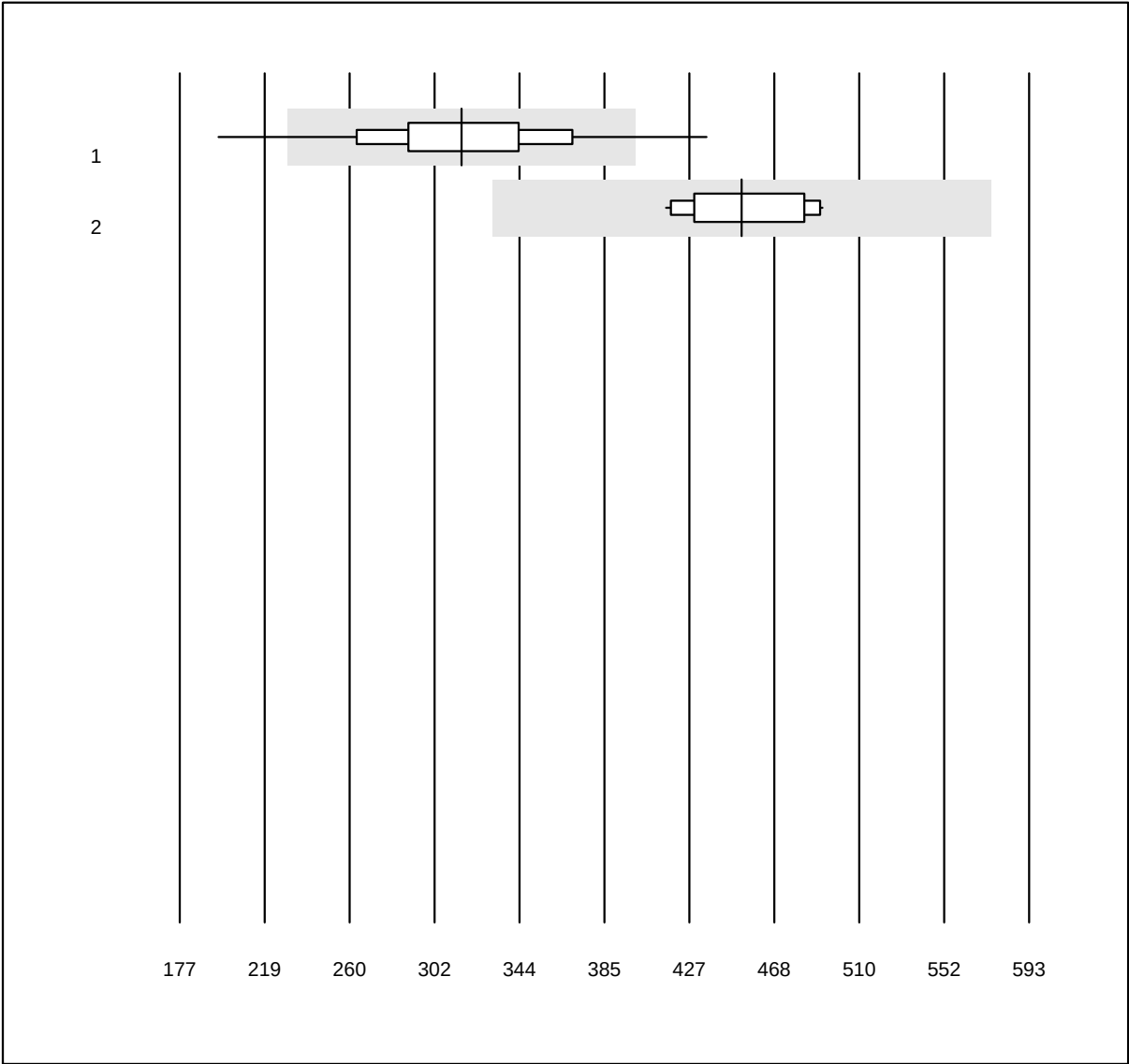


QUALAB Toleranz: 21%

D-dimer CR (mg/l)

| No. Methode |             | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas h 232 | 587   | 77.9  | 12.3      | 9.9       | 0.94         | 13.4 | e    |
| 2           | Lumira Dx   | 11    | 100.0 | 0.0       | 0.0       | 1.07         | 10.2 | a*   |

NT-proBNP CR

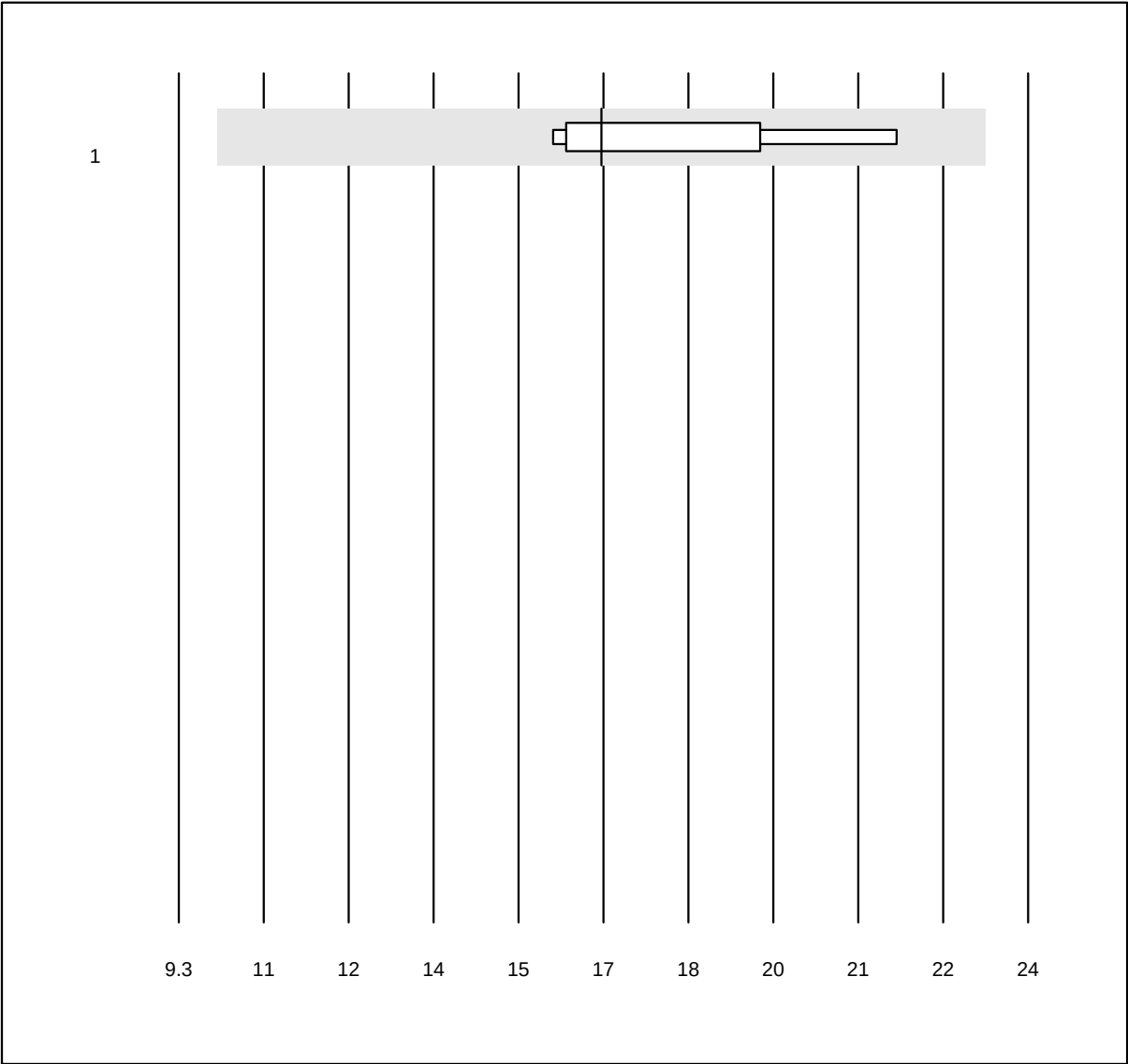


QUALAB Toleranz: 27%

NT-proBNP CR (ng/l)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas h 232 | 356   | 91.3  | 5.9       | 2.8       | 315          | 13.6 | e    |
| 2 Lumira Dx   | 11    | 100.0 | 0.0       | 0.0       | 452          | 5.9  | e    |

CKMB- K8

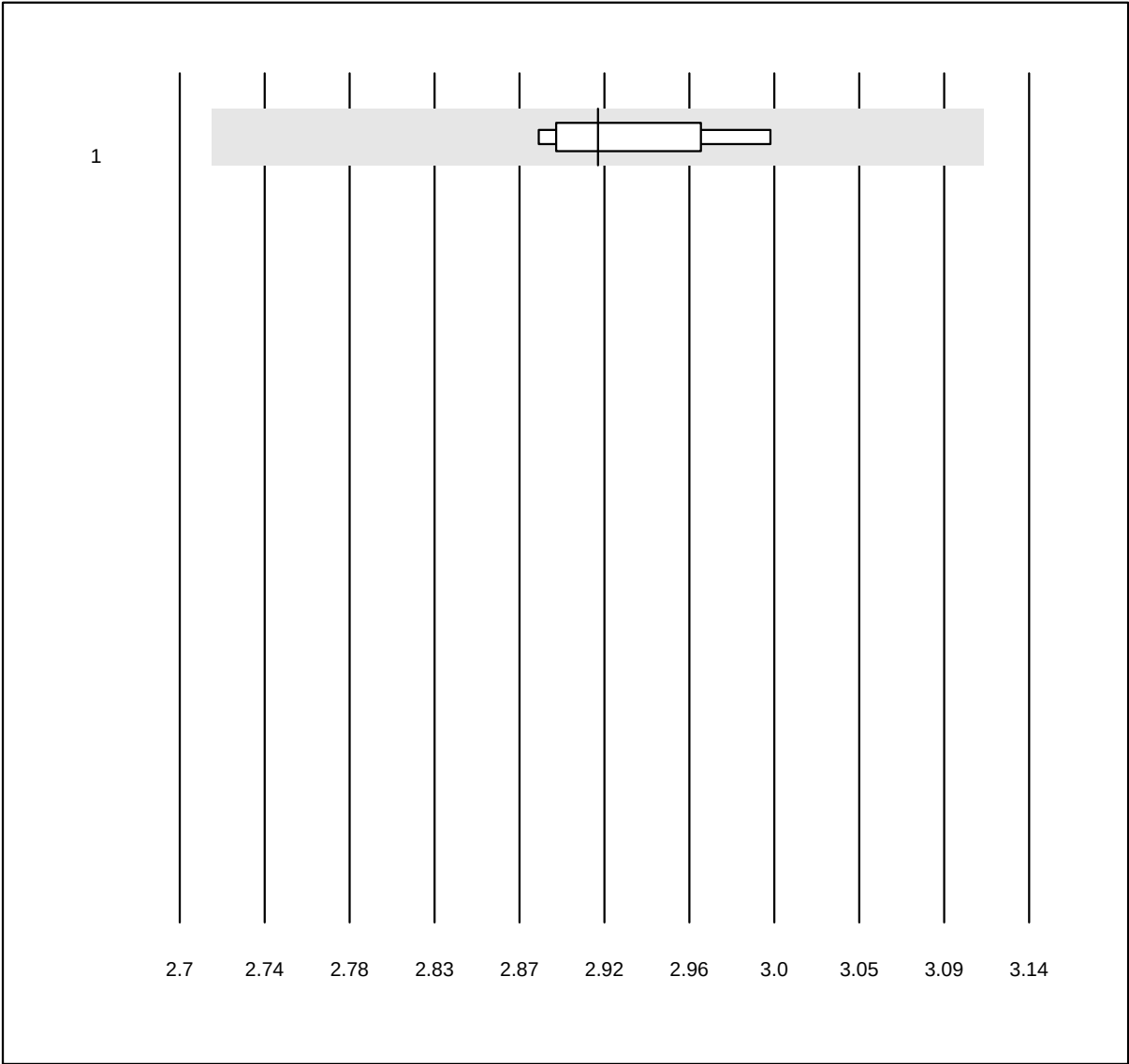


MQ Toleranz: 40%

CKMB- K8 (µg/l)

| No. Methode |             | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas h 232 | 4     | 100.0 | 0.0       | 0.0       | 16.6         | 11.2 | e*   |

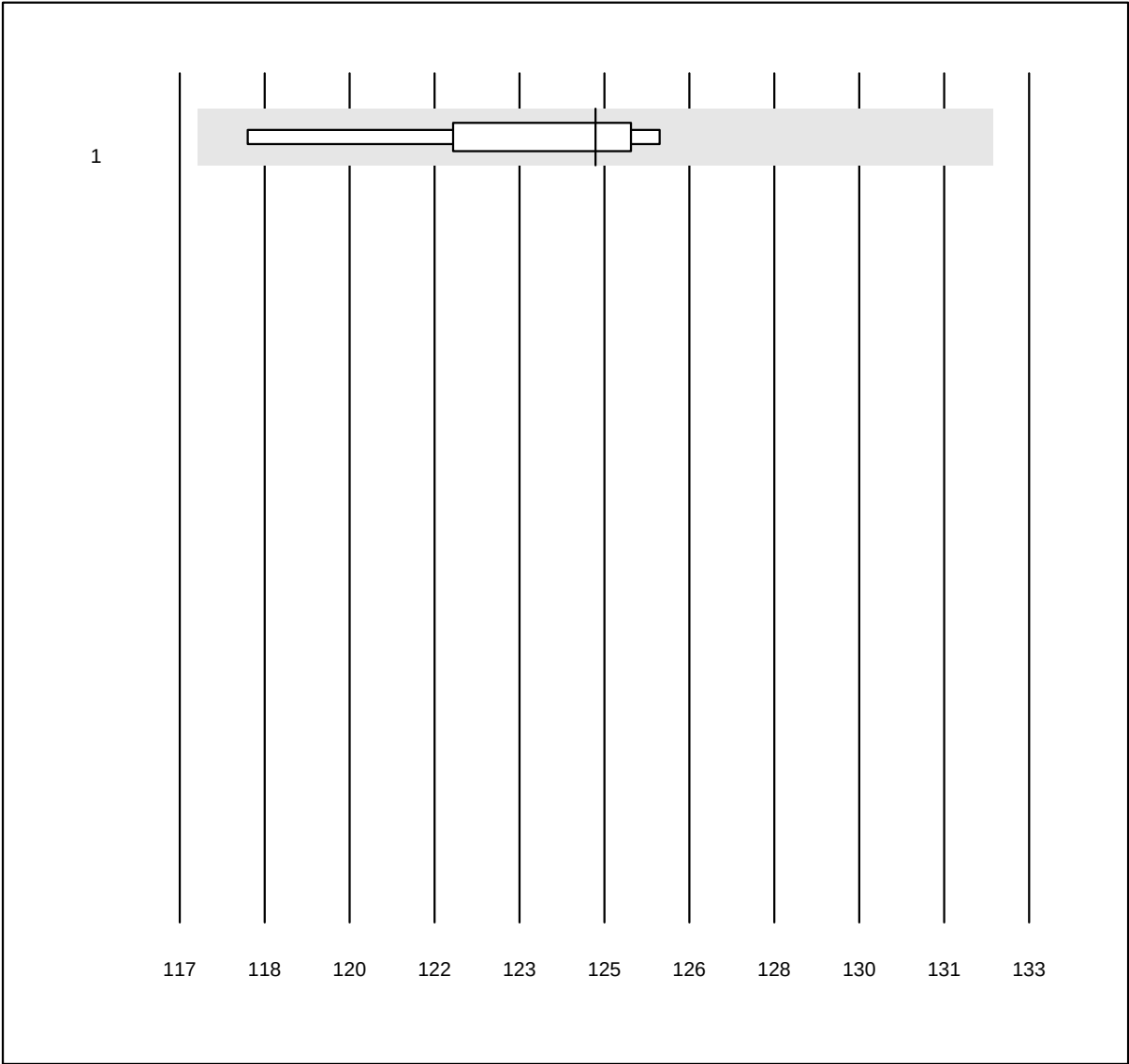
Potassium CCA



QUALAB Toleranz: 6%  
( < 3.3: +/- 0.2 mmol/l)

| No. Methode |          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | OPTI CCA | 5     | 100.0 | 0.0       | 0.0       | 2.9          | 1.5  | e    |

Sodium CCA

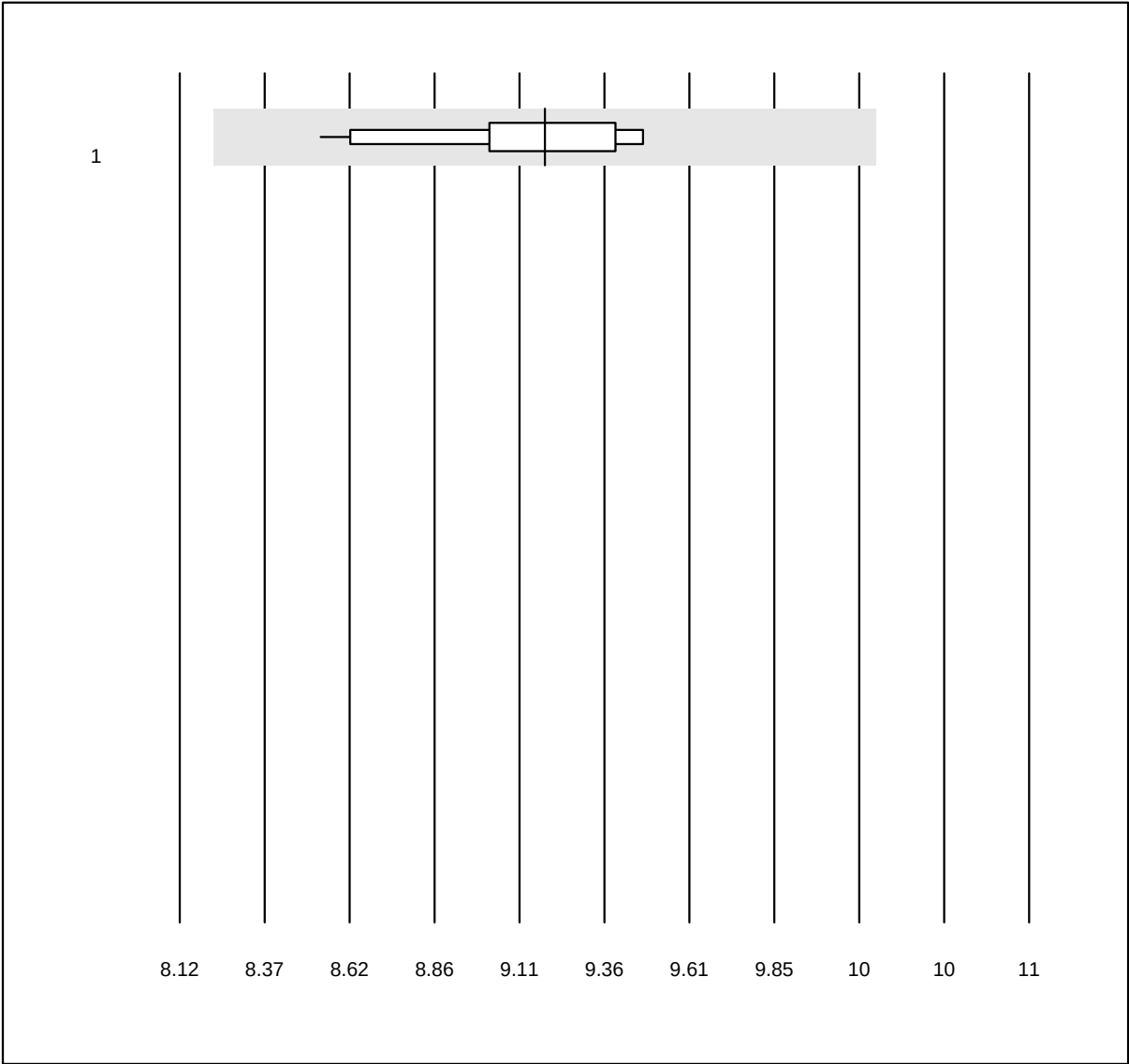


QUALAB Toleranz: 6%

Sodium CCA (mmol/l)

| No. Methode |          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | OPTI CCA | 5     | 100.0 | 0.0       | 0.0       | 124.8        | 1.9  | e*   |

PCO2 CCA



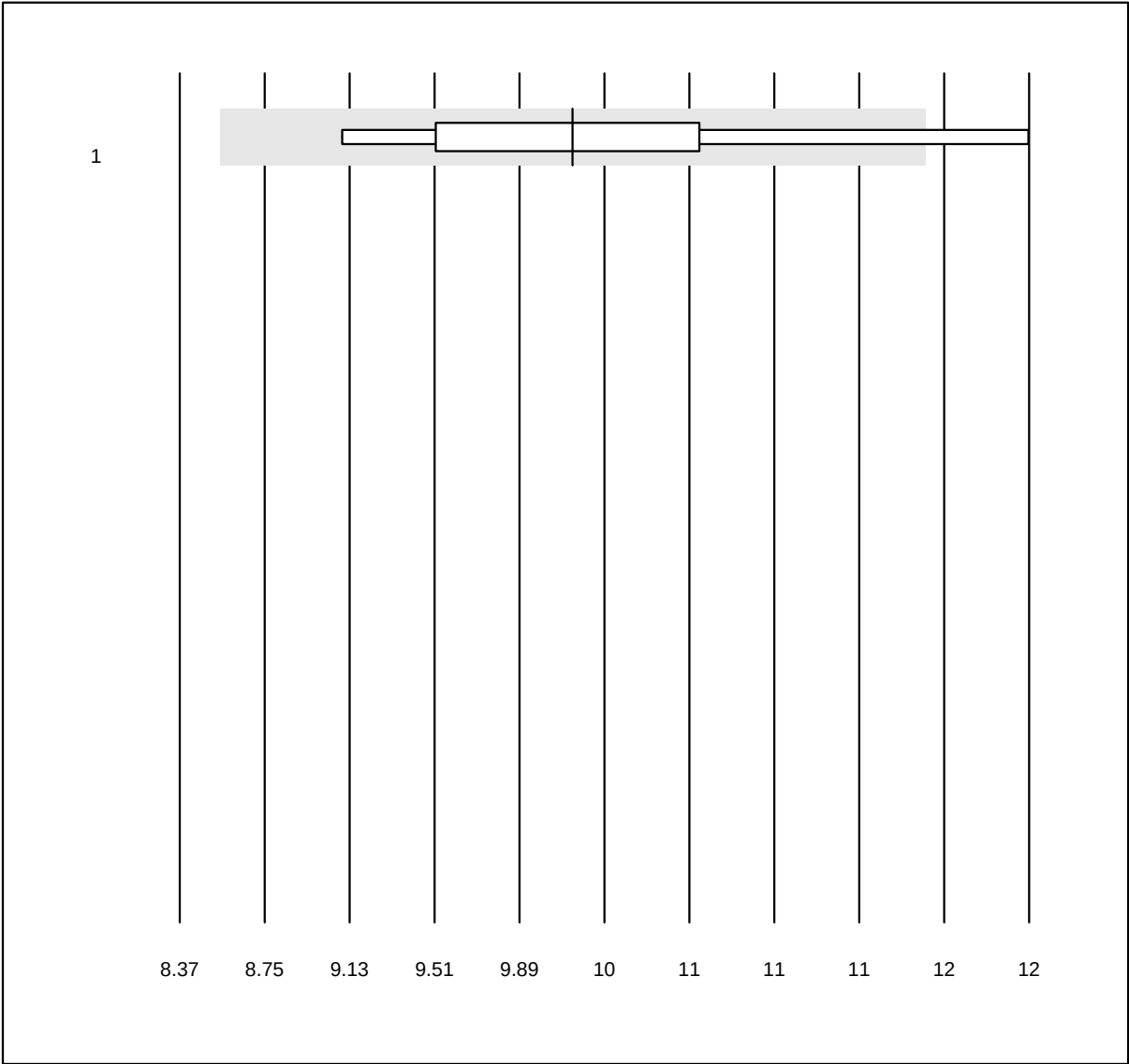
QUALAB Toleranz: 12%

PCO2 CCA (kPa)

| No. Methode |          | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | OPTI CCA | 11    | 100.0 | 0.0       | 0.0       | 9.36         | 3.4  | e    |



PO2 CCA



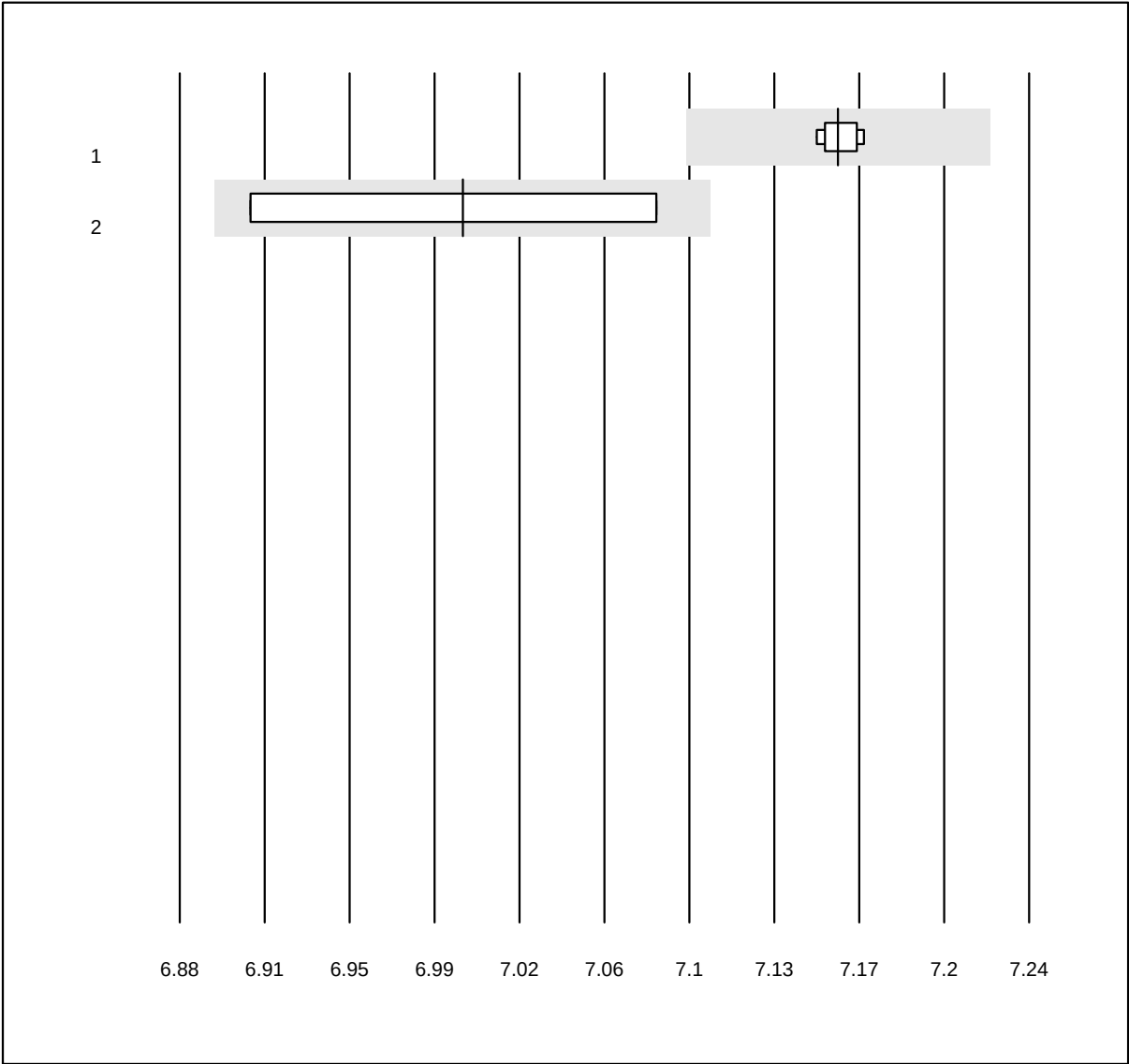
QUALAB Toleranz: 15%

PO2 CCA (kPa)

| No. Methode |          | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------|-------|------|-----------|-----------|--------------|------|------|
| 1           | OPTI CCA | 10    | 80.0 | 10.0      | 10.0      | 10.05        | 9.3  | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

pH CCA

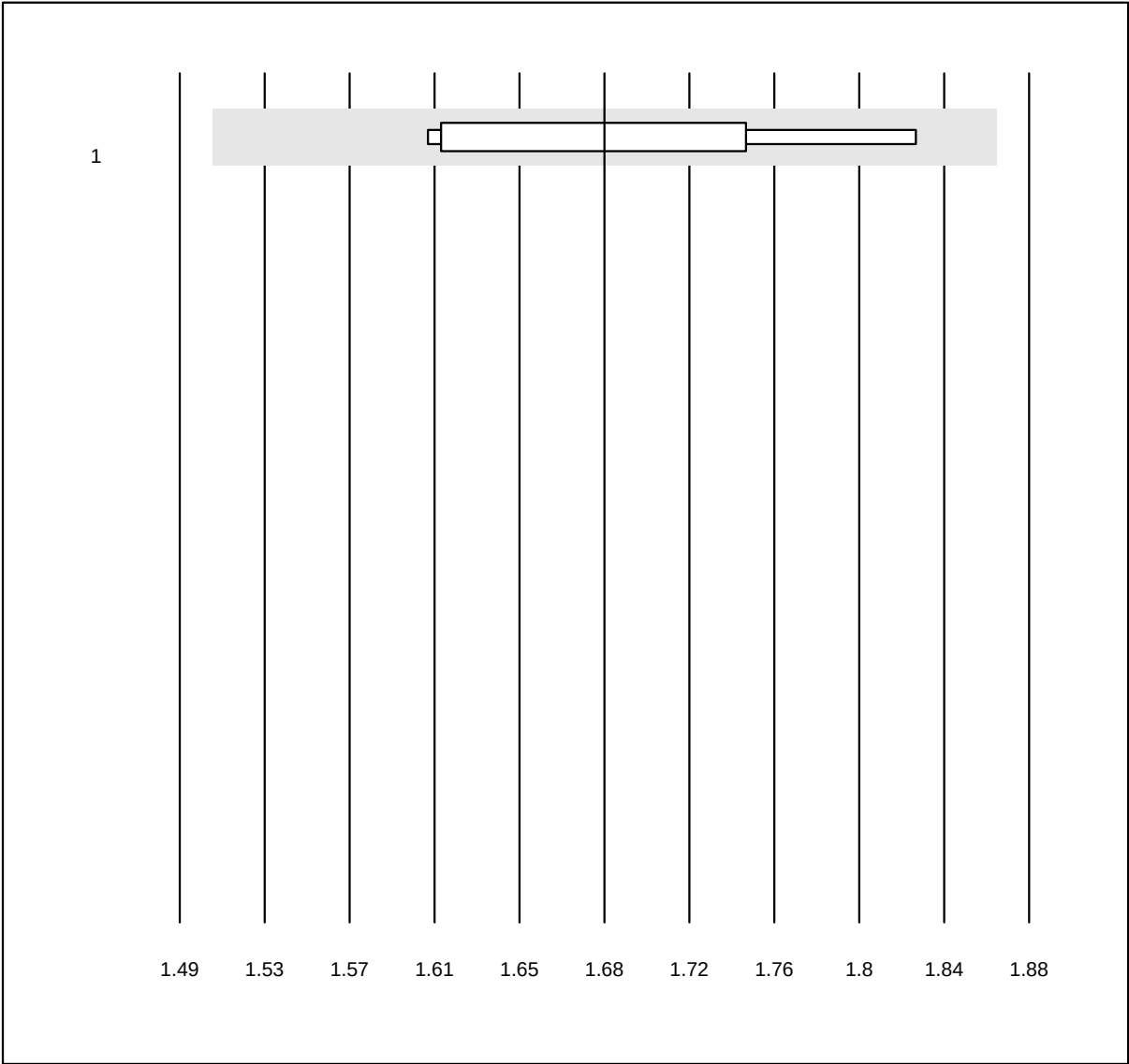


QUALAB Toleranz: 0%

pH CCA ()

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 OPTI CCA  | 9     | 100.0 | 0.0       | 0.0       | 7.16         | 0.1  | e    |
| 2 Vitest    | 4     | 100.0 | 0.0       | 0.0       | 7.00         | 1.4  | a*   |

Calcium CCA

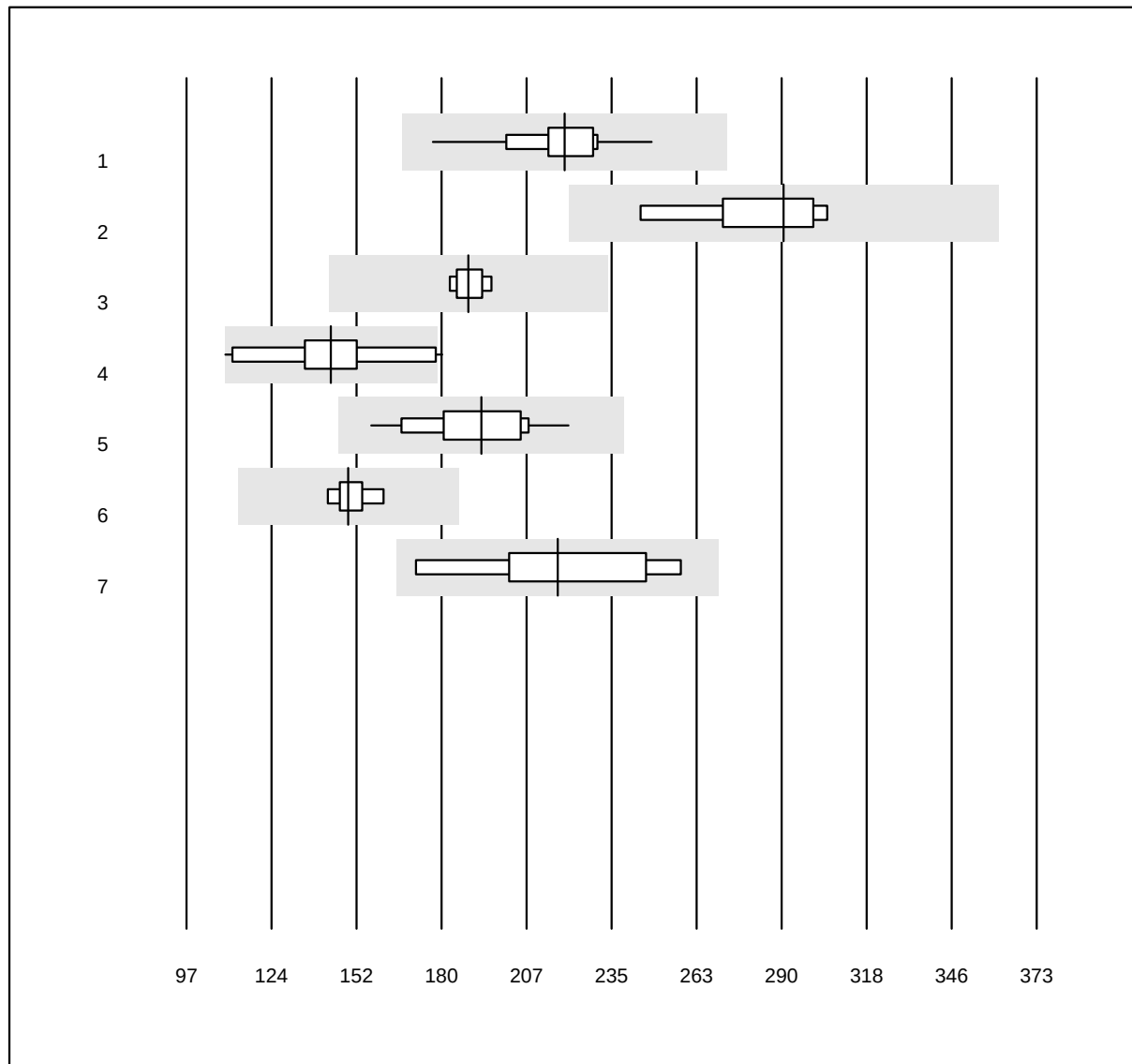


MQ Toleranz: 9%  
( < 2.0: +/- 0.18 mmol/l)

Calcium CCA (mmol/l)

| No. Methode |          | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------|-------|------|-----------|-----------|--------------|------|------|
| 1           | OPTI CCA | 4     | 75.0 | 0.0       | 25.0      | 1.69         | 4.7  | e*   |

## Ferritin



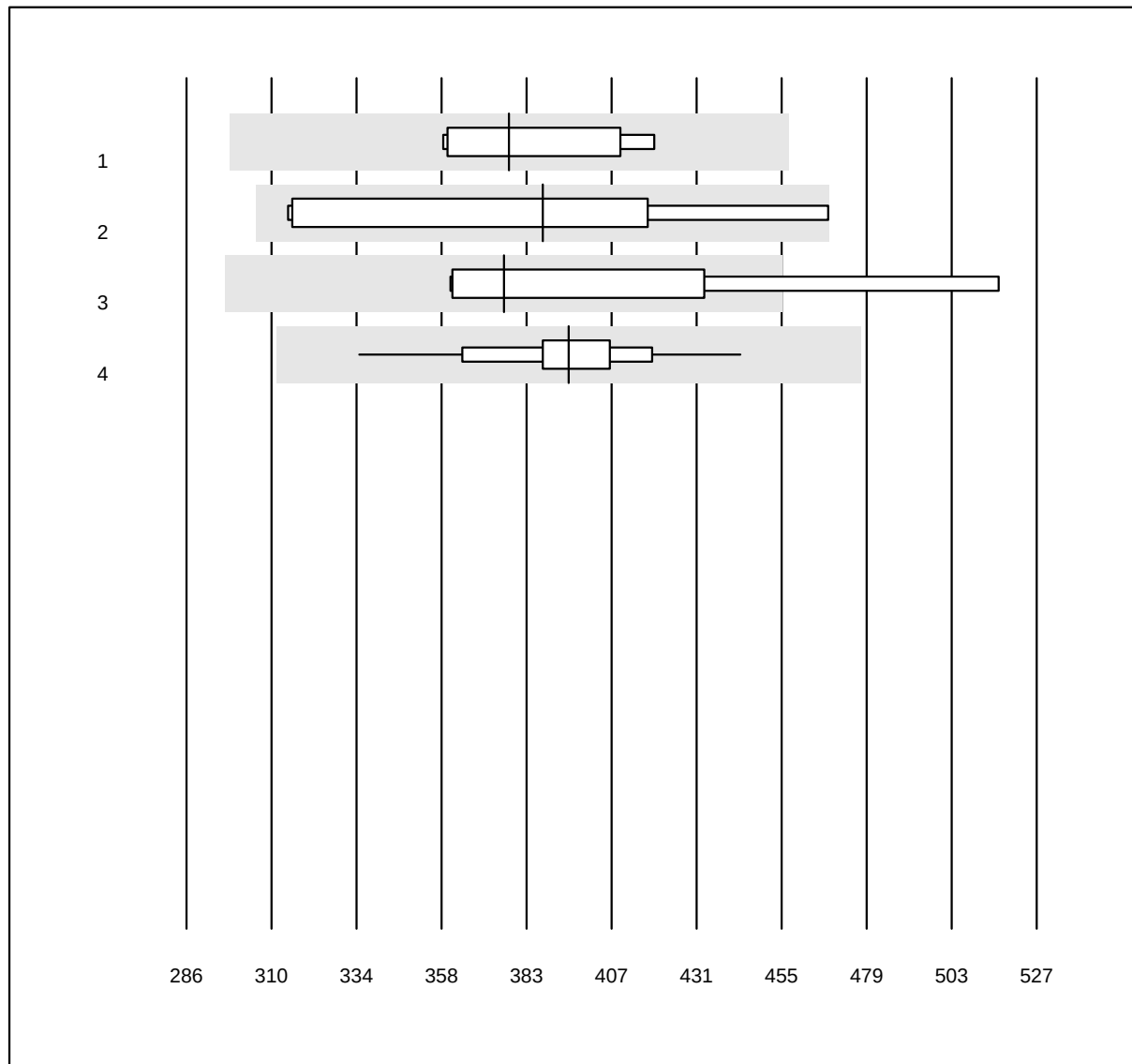
QUALAB Toleranz: 24%

Ferritin (µg/l)

| No. Methode  | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS      | 25    | 100.0 | 0.0       | 0.0       | 219.76       | 6.4  | e    |
| 2 Abbott     | 5     | 100.0 | 0.0       | 0.0       | 290.84       | 6.3  | e    |
| 3 Dimension  | 4     | 100.0 | 0.0       | 0.0       | 188.50       | 2.3  | e    |
| 4 Mini Vidas | 10    | 90.0  | 10.0      | 0.0       | 143.87       | 12.7 | e*   |
| 5 Roche      | 33    | 100.0 | 0.0       | 0.0       | 192.75       | 8.5  | e    |
| 6 Siemens    | 6     | 100.0 | 0.0       | 0.0       | 149.50       | 3.4  | e    |
| 7            | 11    | 72.7  | 0.0       | 27.3      | 217.53       | 12.8 | e*   |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Vitamin B12



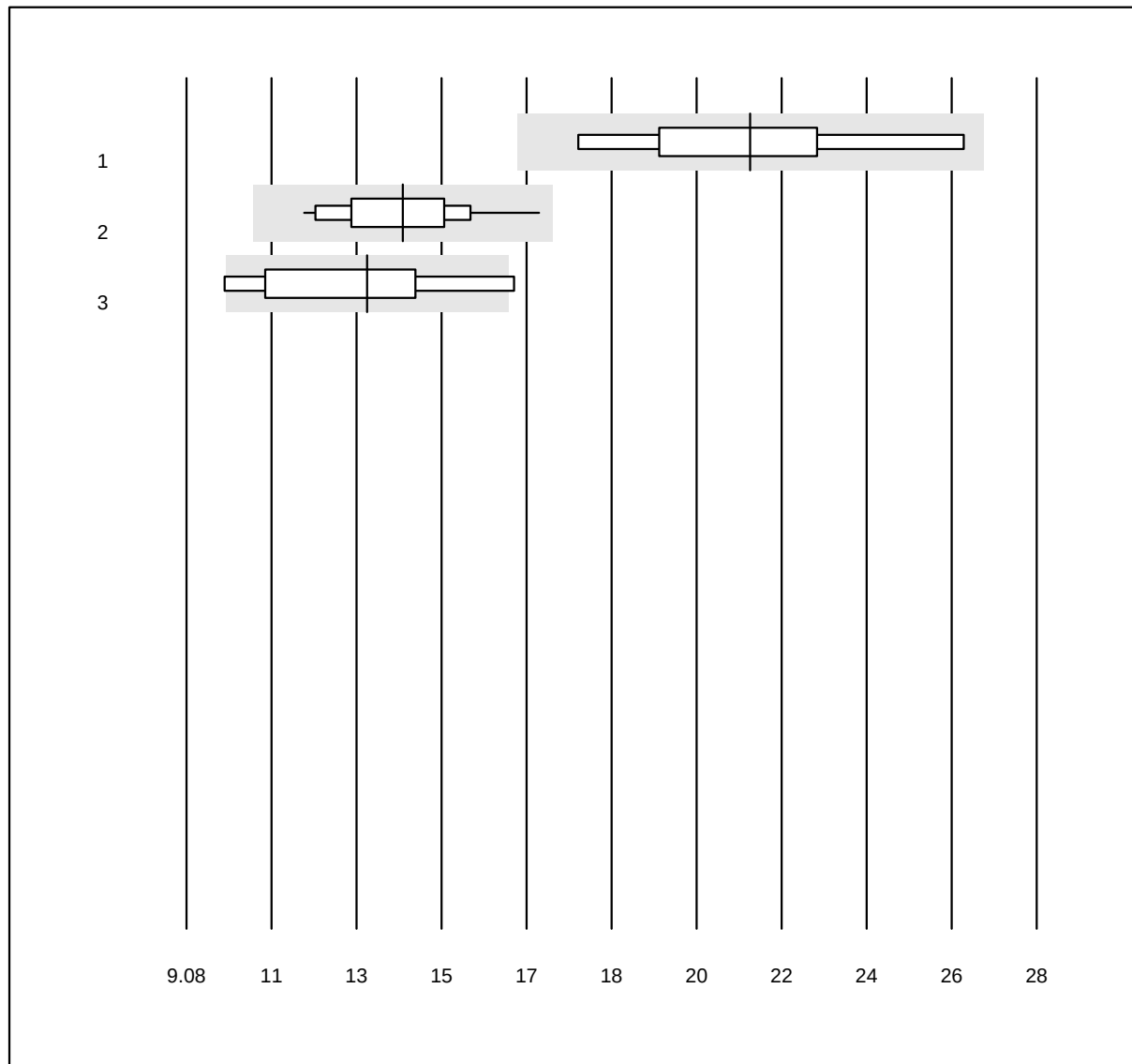
QUALAB Toleranz: 21%

Vitamin B12 (pmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP/CP | 7     | 100.0 | 0.0       | 0.0       | 377.40       | 6.6  | e    |
| 2 Abbott              | 7     | 100.0 | 0.0       | 0.0       | 387.00       | 14.0 | a*   |
| 3 Alle Methoden       | 6     | 83.3  | 16.7      | 0.0       | 376.00       | 12.8 | e*   |
| 4 Roche               | 23    | 100.0 | 0.0       | 0.0       | 394.34       | 5.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Folate



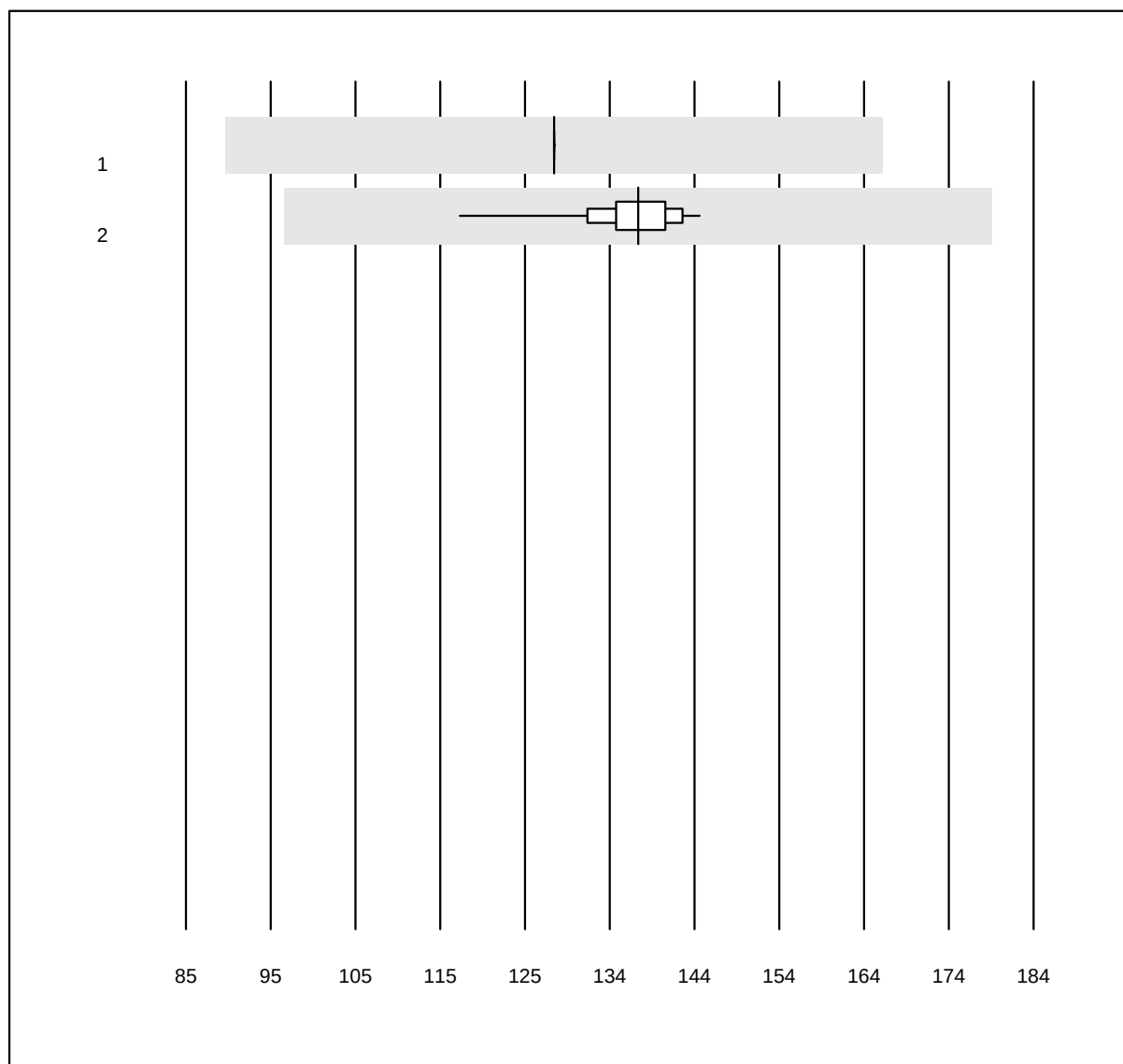
QUALAB Toleranz: 24%

Folate (nmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 7     | 100.0 | 0.0       | 0.0       | 21.62        | 11.7 | e*   |
| 2 Roche     | 25    | 96.0  | 0.0       | 4.0       | 13.89        | 9.6  | e    |
| 3 Siemens   | 8     | 100.0 | 0.0       | 0.0       | 13.10        | 17.0 | a*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Holotranscobalamine



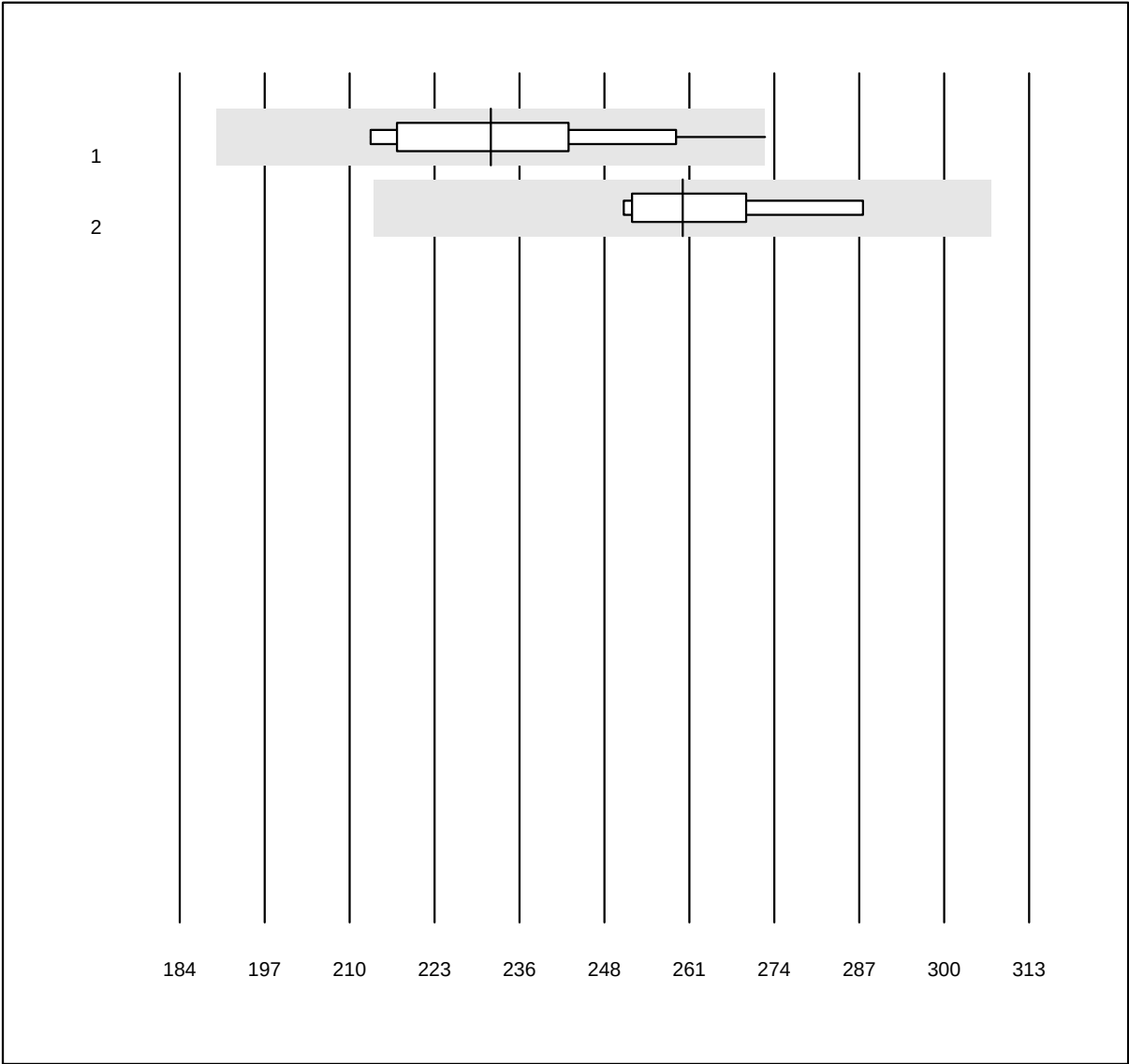
MQ Toleranz: 30%

Holotranscobalamine  
(pmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 7     | 100.0 | 0.0       | 0.0       | 128.0        | 0.0  | e    |
| 2 Cobas     | 48    | 100.0 | 0.0       | 0.0       | 137.8        | 3.6  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Bilirubin total Neo



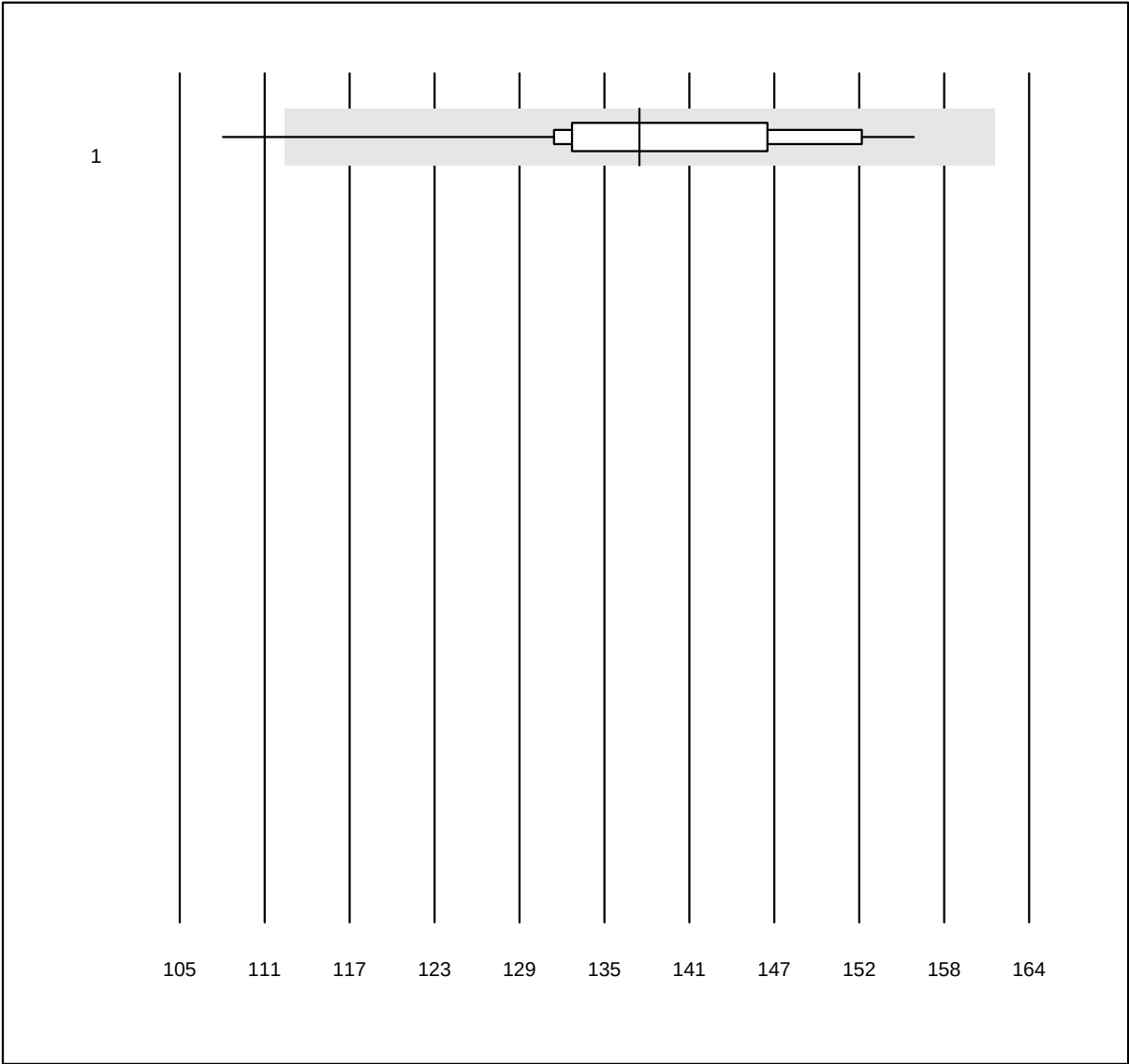
QUALAB Toleranz: 18%

Bilirubin total Neo (µmol/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alle Methoden | 18    | 88.9  | 5.6       | 5.6       | 231          | 7.6  | e    |
| 2 Dimension     | 6     | 100.0 | 0.0       | 0.0       | 260          | 4.3  | e    |



Bilirubin direct

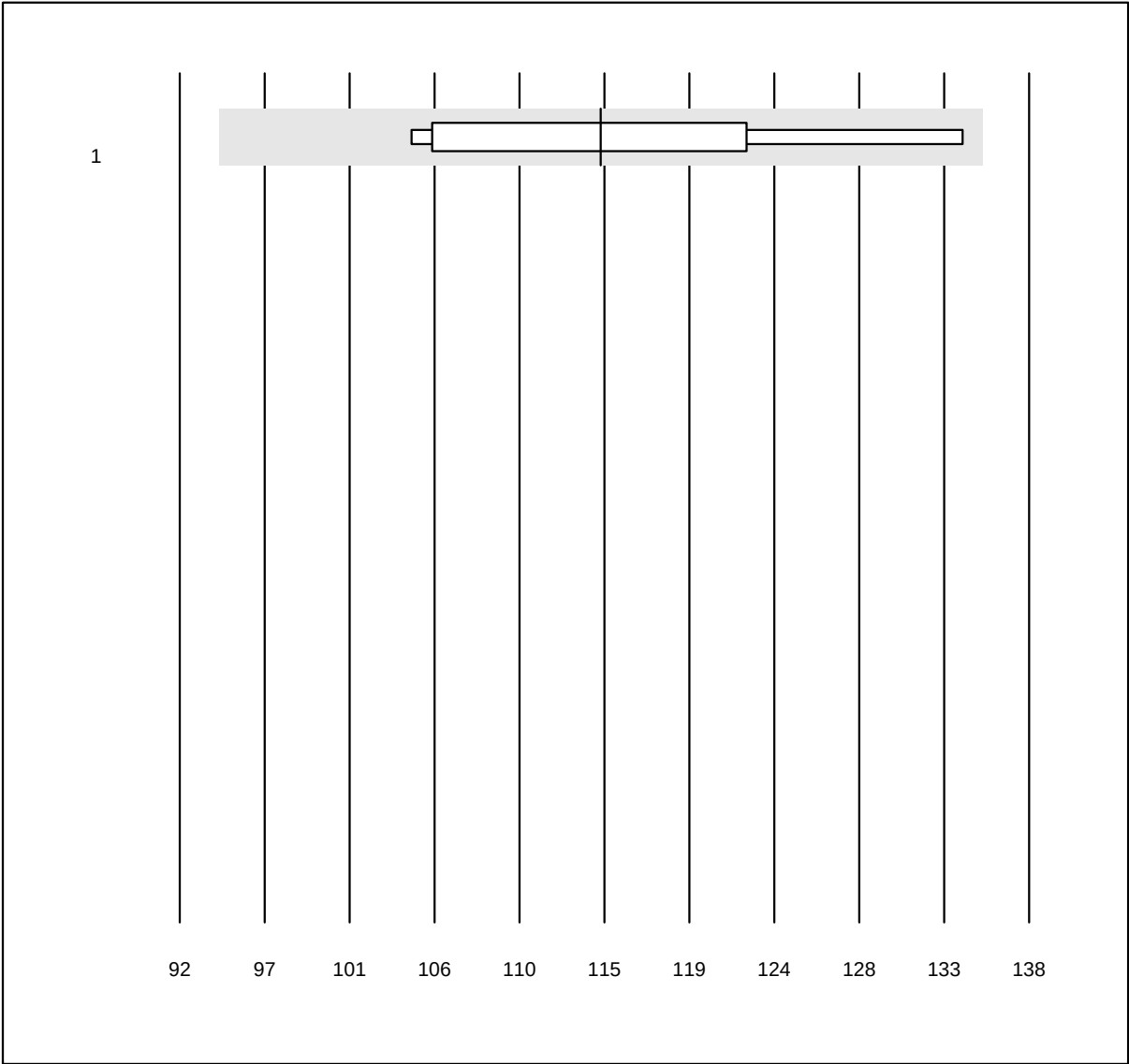


QUALAB Toleranz: 18%

Bilirubin direct (µmol/l)

| No. Methode                                                                                                           |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | Alle Methoden | 20    | 95.0 | 5.0       | 0.0       | 137          | 7.4  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |               |       |      |           |           |              |      |      |

Bilirubin indirect

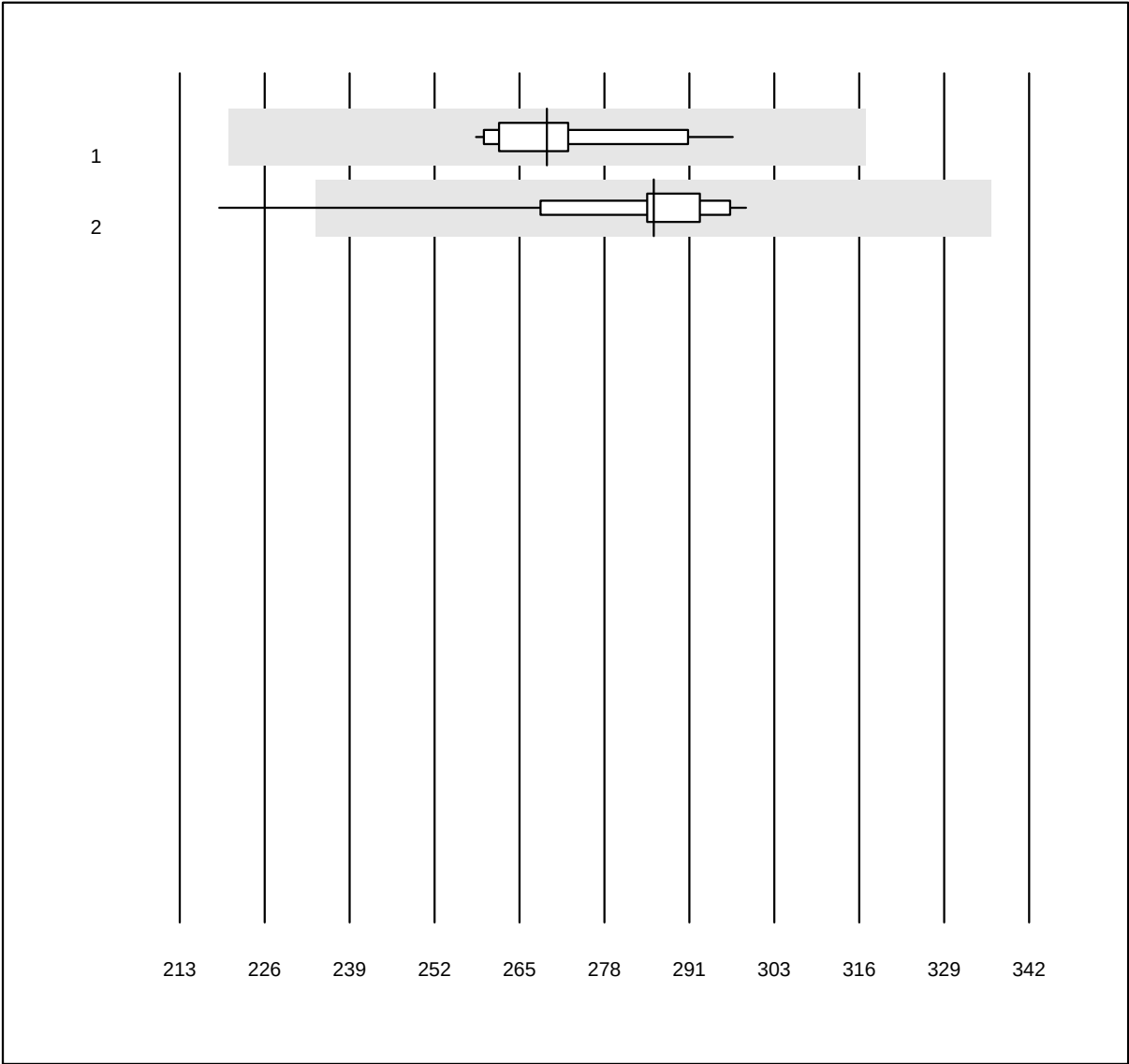


QUALAB Toleranz: 18%

Bilirubin indirect (µmol/l)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 5     | 80.0 | 0.0       | 20.0      | 115          | 8.7  | e*   |

Bilirubin neonatal

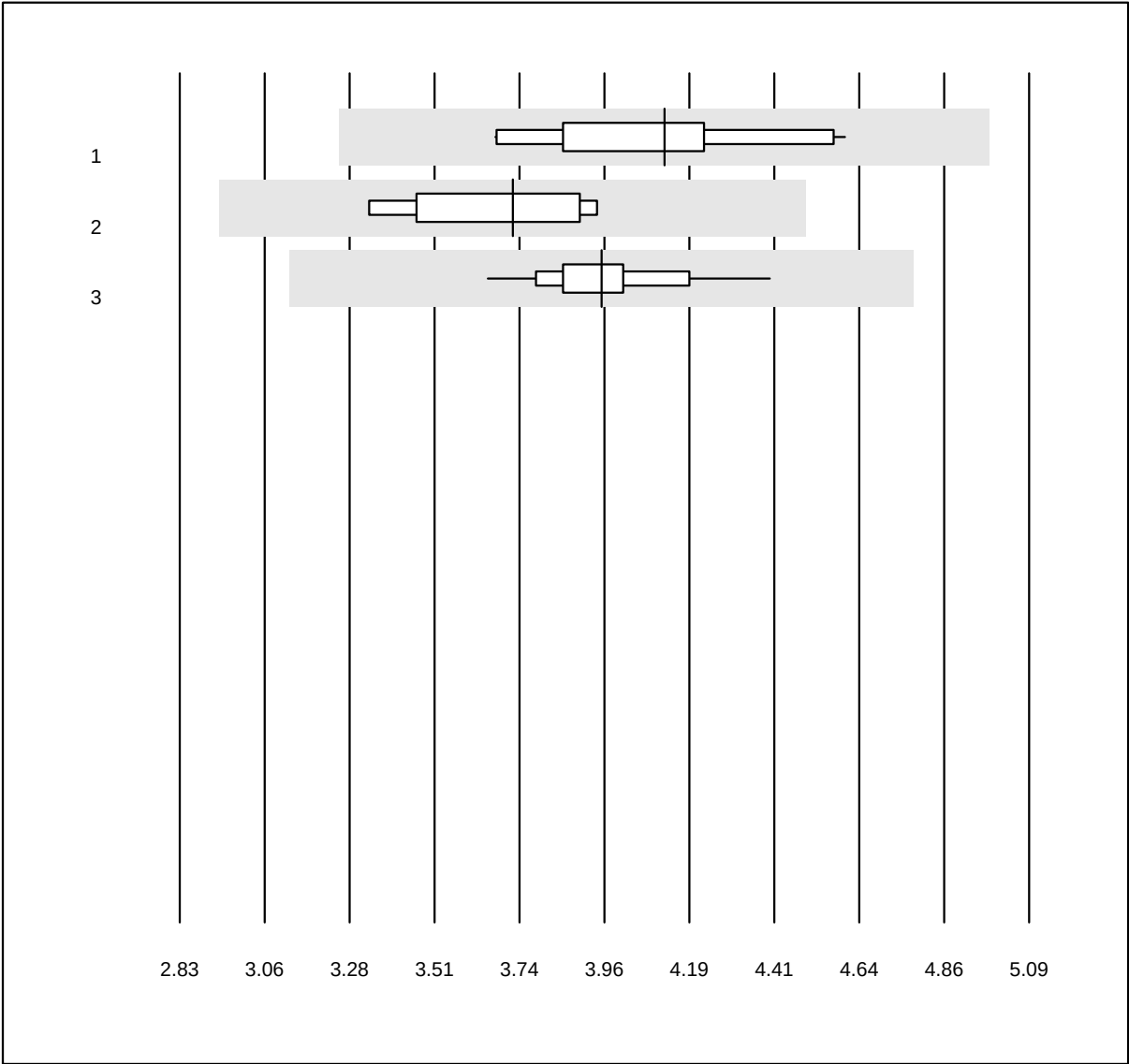


QUALAB Toleranz: 18%

Bilirubin neonatal (µmol/l)

| No. Methode       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 ABL700/800      | 14    | 92.9 | 0.0       | 7.1       | 269          | 3.9  | e    |
| 2 andere Methoden | 17    | 94.1 | 5.9       | 0.0       | 285          | 6.2  | e    |

PSA



QUALAB Toleranz: 21%

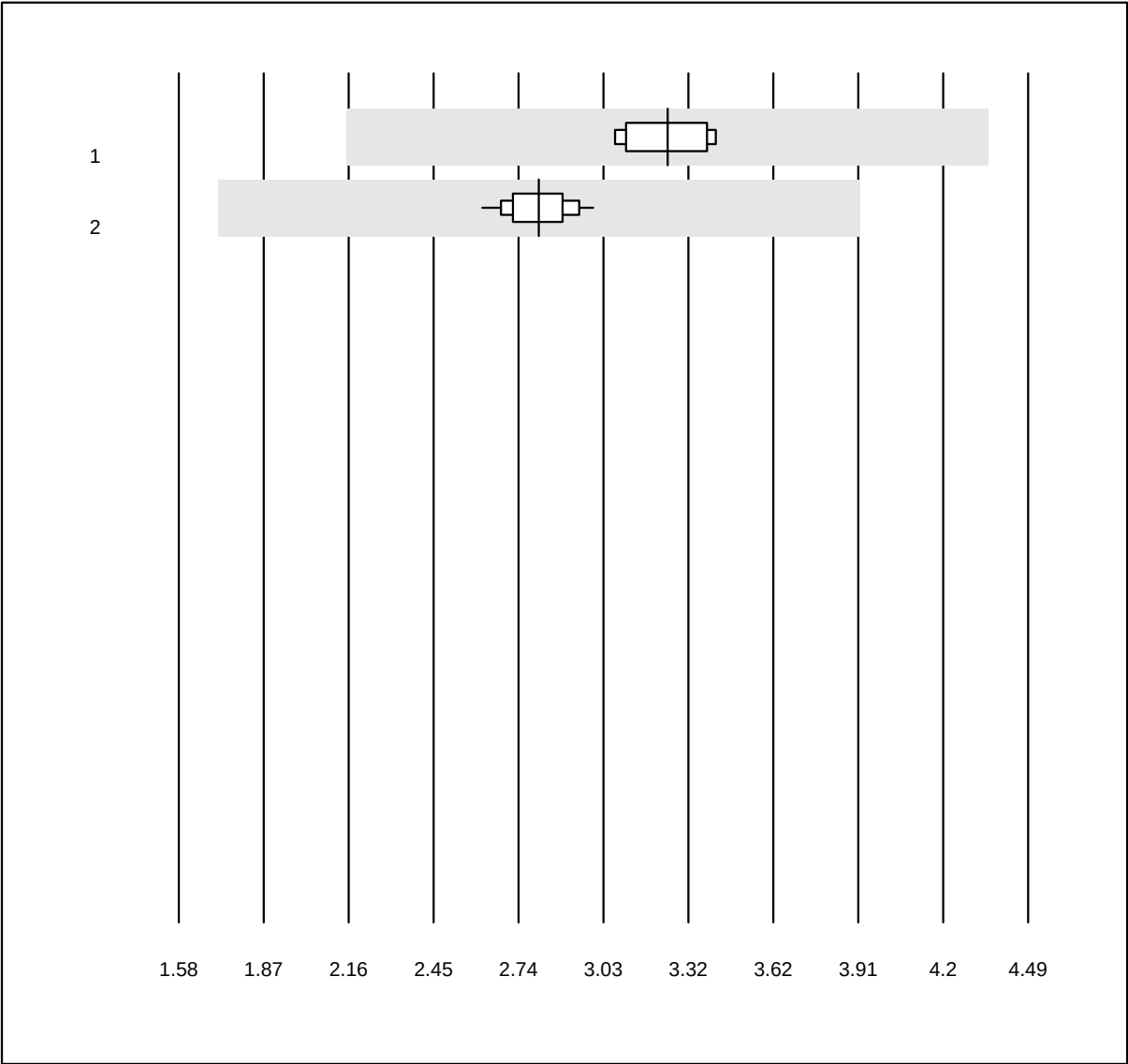
PSA (µg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS     | 10    | 100.0 | 0.0       | 0.0       | 4.12         | 6.8  | e    |
| 2 Abbott    | 5     | 100.0 | 0.0       | 0.0       | 3.72         | 6.1  | e*   |
| 3 Roche     | 23    | 100.0 | 0.0       | 0.0       | 3.95         | 4.1  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

K14 Tumor Markers

CEA

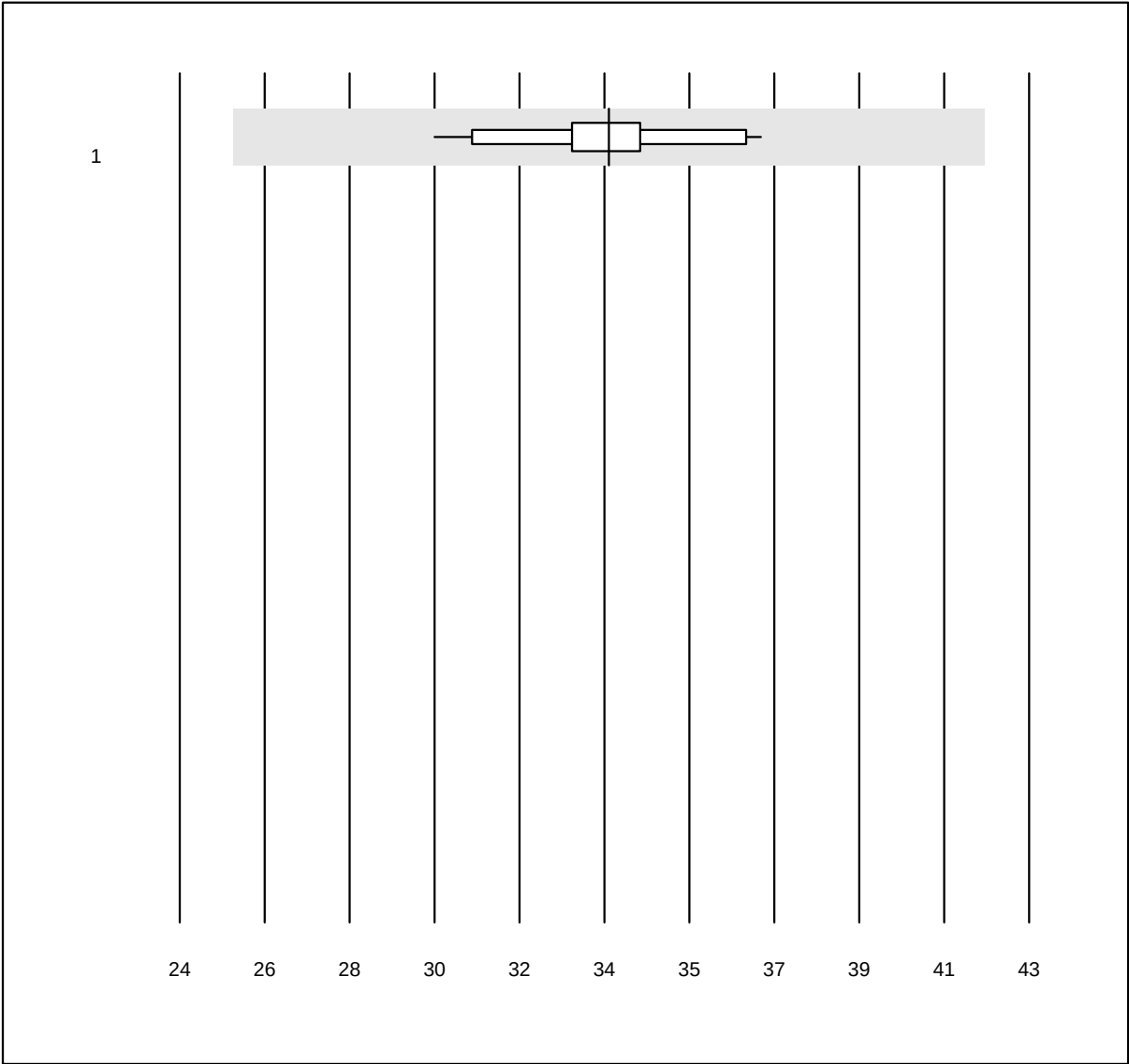


QUALAB Toleranz: 21%  
( < 5.0: +/- 1.1 µg/l)

|     |         | CEA (µg/l) |       |           |           |              |      |      |
|-----|---------|------------|-------|-----------|-----------|--------------|------|------|
| No. | Methode | Total      | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
| 1   | Abbott  | 4          | 100.0 | 0.0       | 0.0       | 3.3          | 4.6  | e    |
| 2   | Roche   | 17         | 100.0 | 0.0       | 0.0       | 2.8          | 3.5  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

CA 125



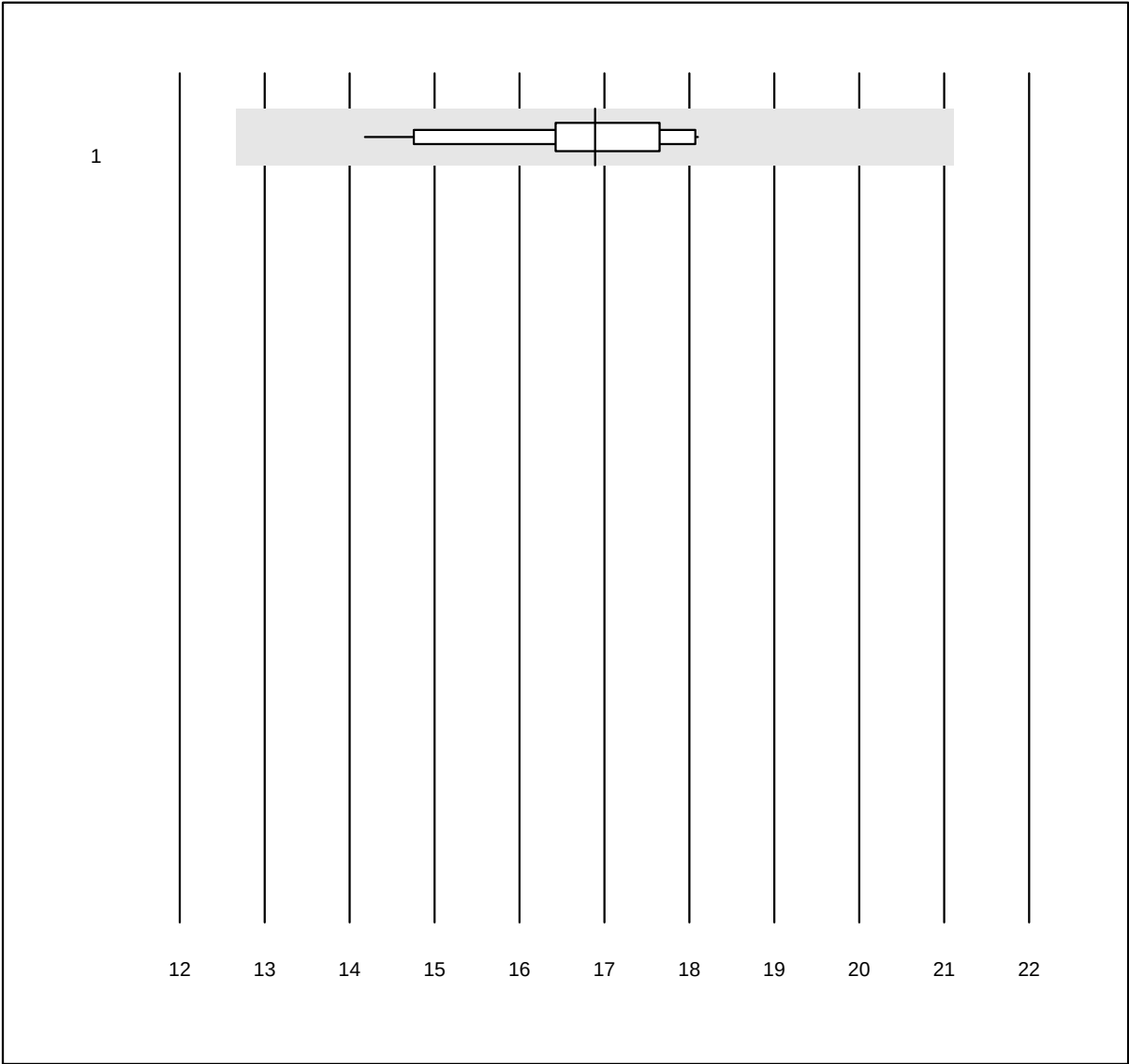
MQ Toleranz: 25%

CA 125 (kIU/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 12    | 100.0 | 0.0       | 0.0       | 33.6         | 5.4  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

CA 19-9



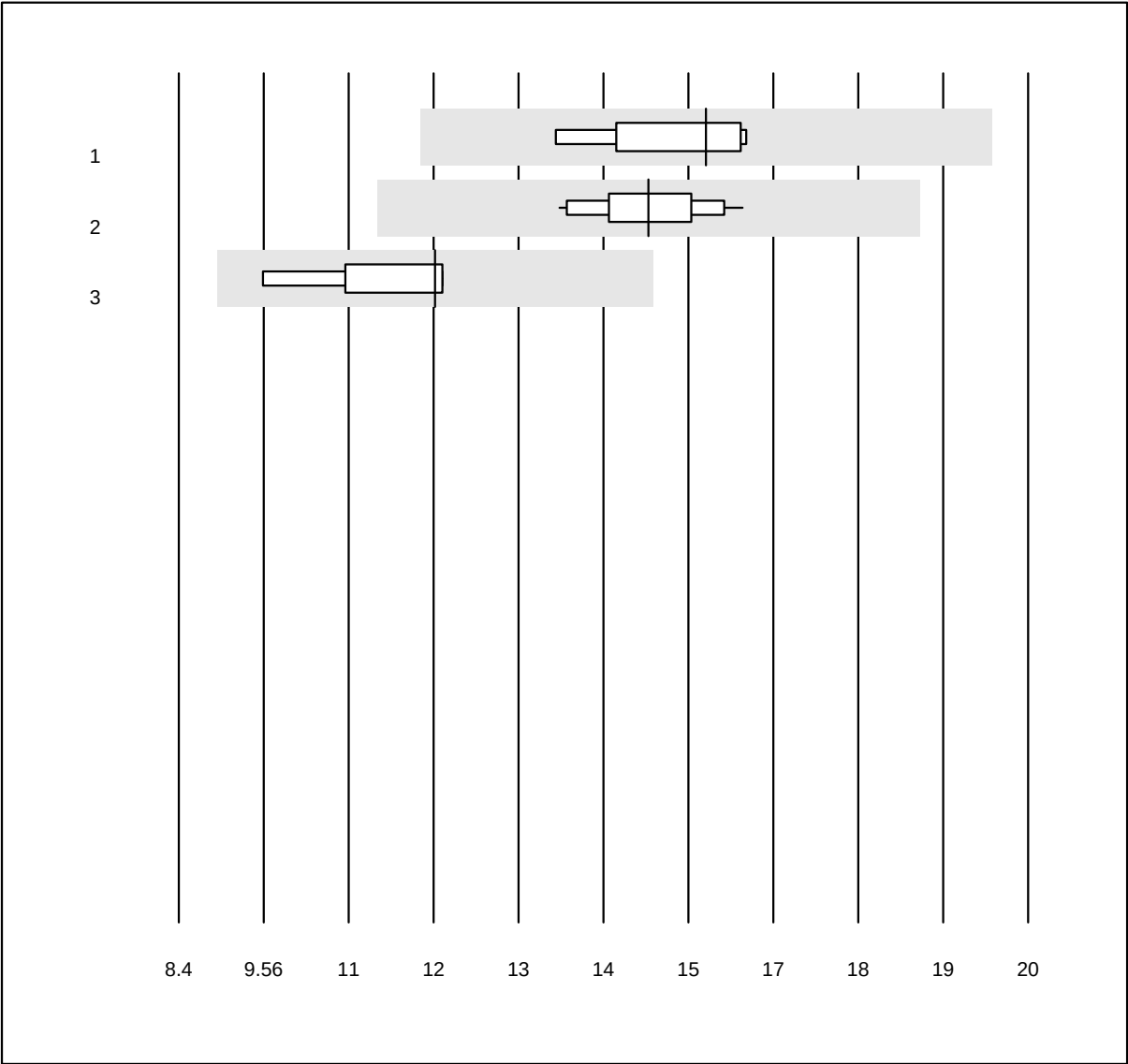
MQ Toleranz: 25%

CA 19-9 (kIU/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 12    | 100.0 | 0.0       | 0.0       | 16.9         | 6.3  | e    |

5 additional results were submitted but not published because the method groups were too small. (< results per group)

CA 15-3



MQ Toleranz: 25%

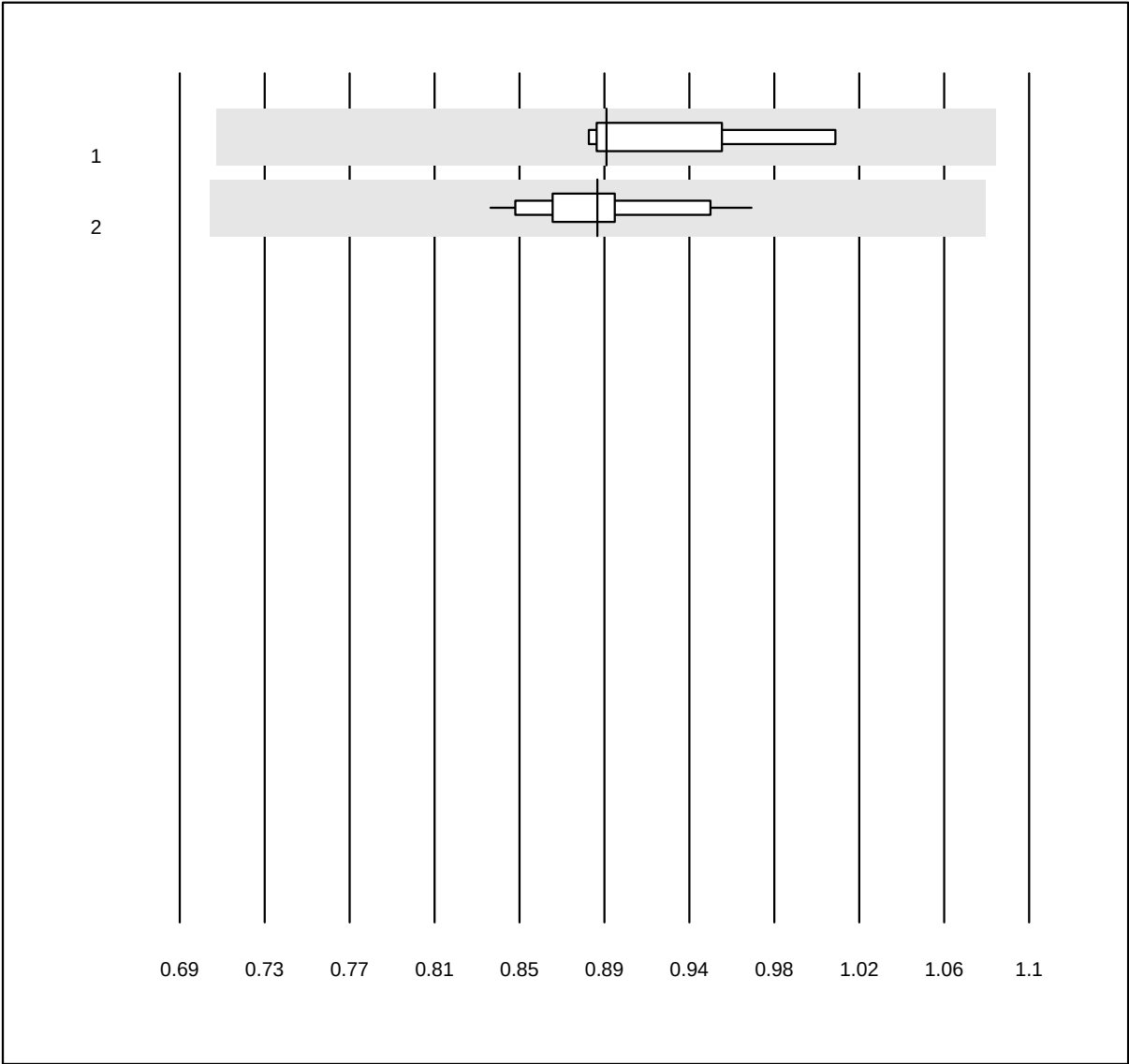
CA 15-3 (kIU/l)

| No. Methode |         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Abbott  | 4     | 100.0 | 0.0       | 0.0       | 15.6         | 6.0  | e*   |
| 2           | Roche   | 14    | 100.0 | 0.0       | 0.0       | 14.8         | 4.9  | e    |
| 3           | Siemens | 4     | 100.0 | 0.0       | 0.0       | 11.9         | 7.1  | e*   |

3 additional results were submitted but not published because the method groups were too small. (< results per group)



free PSA



QUALAB Toleranz: 21%

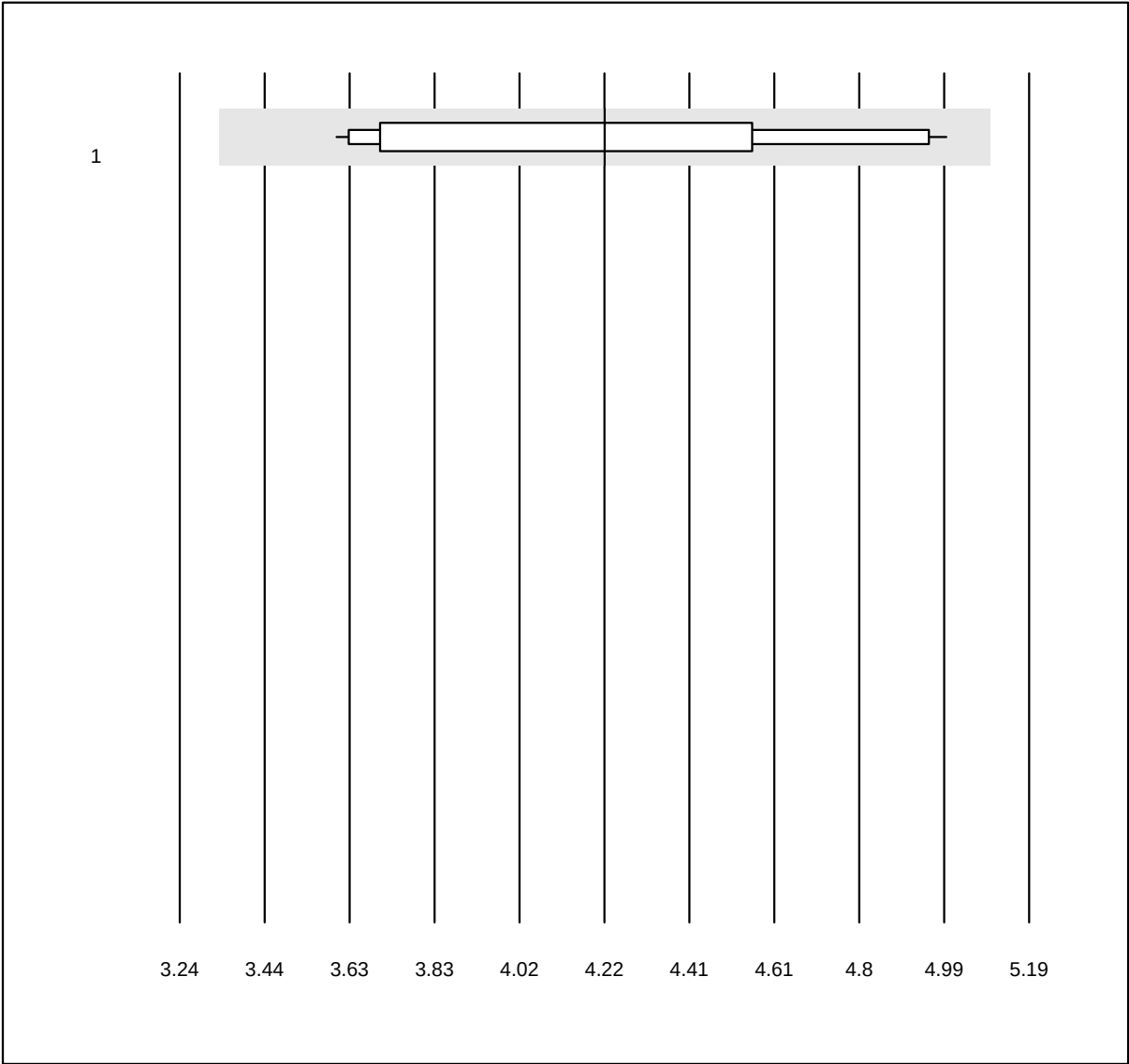
free PSA (µg/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Abbott  | 4     | 100.0 | 0.0       | 0.0       | 0.90         | 4.2  | e    |
| 2   | Roche   | 15    | 100.0 | 0.0       | 0.0       | 0.89         | 3.4  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

K14 Tumor Markers

AFP



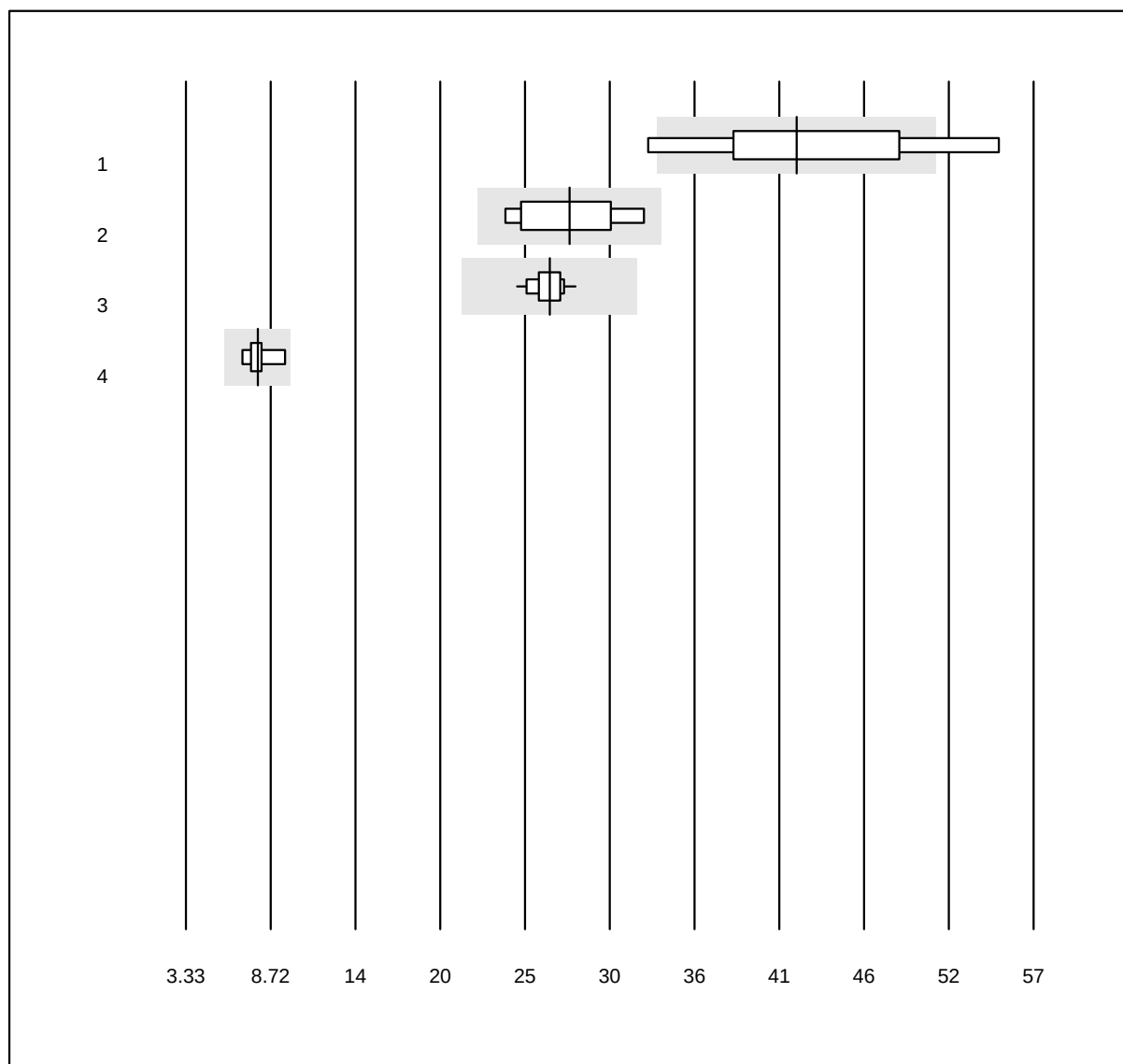
QUALAB Toleranz: 21%

AFP (μg/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 13    | 100.0 | 0.0       | 0.0       | 4.2          | 11.3 | e*   |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## HCG qn



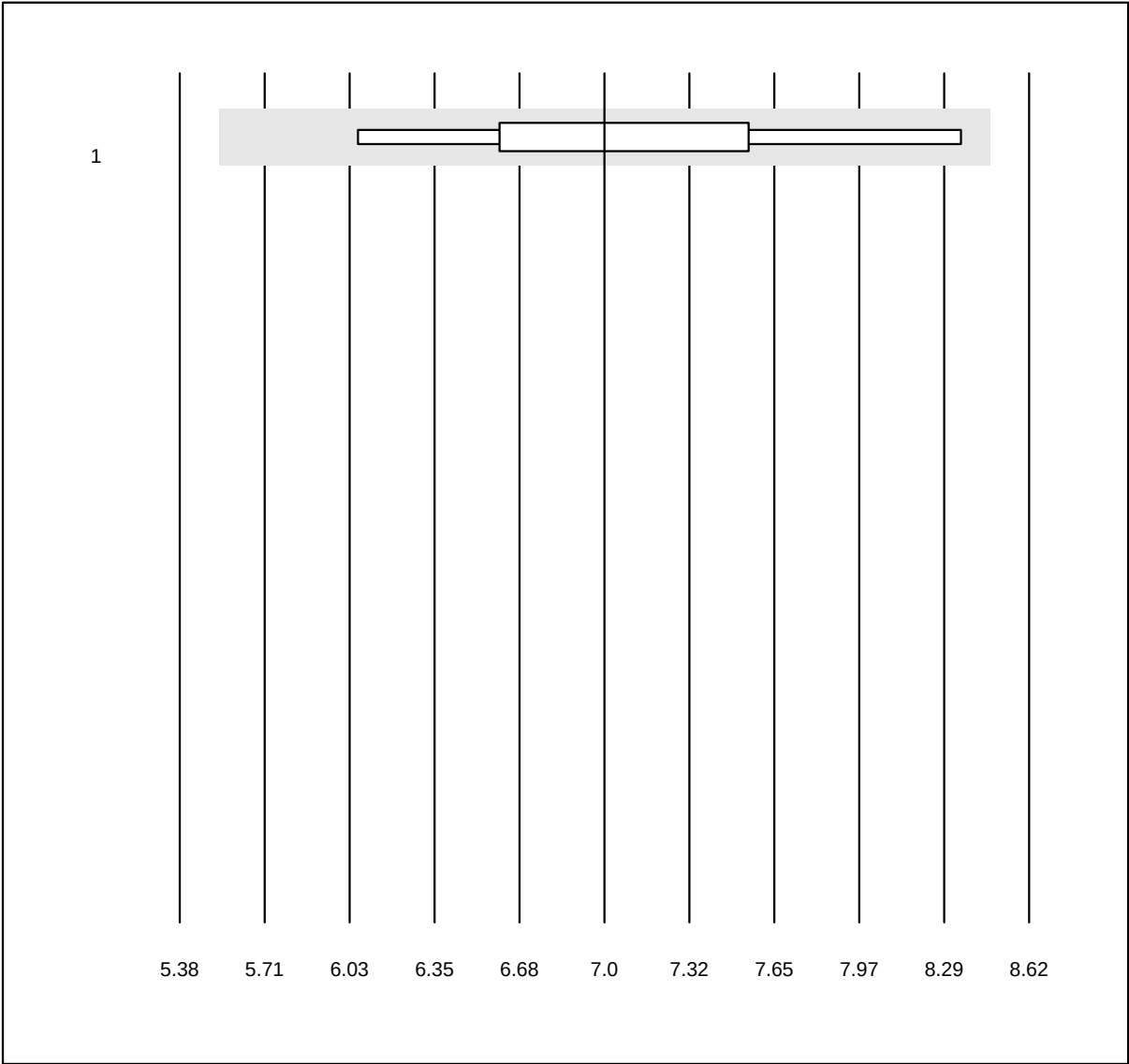
QUALAB Toleranz: 21%

HCG qn (U/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS     | 6     | 66.7  | 16.7      | 16.7      | 42.0         | 14.3 | e*   |
| 2 Abbott    | 5     | 100.0 | 0.0       | 0.0       | 27.6         | 11.0 | e*   |
| 3 Roche     | 22    | 100.0 | 0.0       | 0.0       | 26.4         | 3.7  | e    |
| 4 VIDAS     | 7     | 100.0 | 0.0       | 0.0       | 7.9          | 9.4  | e*   |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

HCG intact



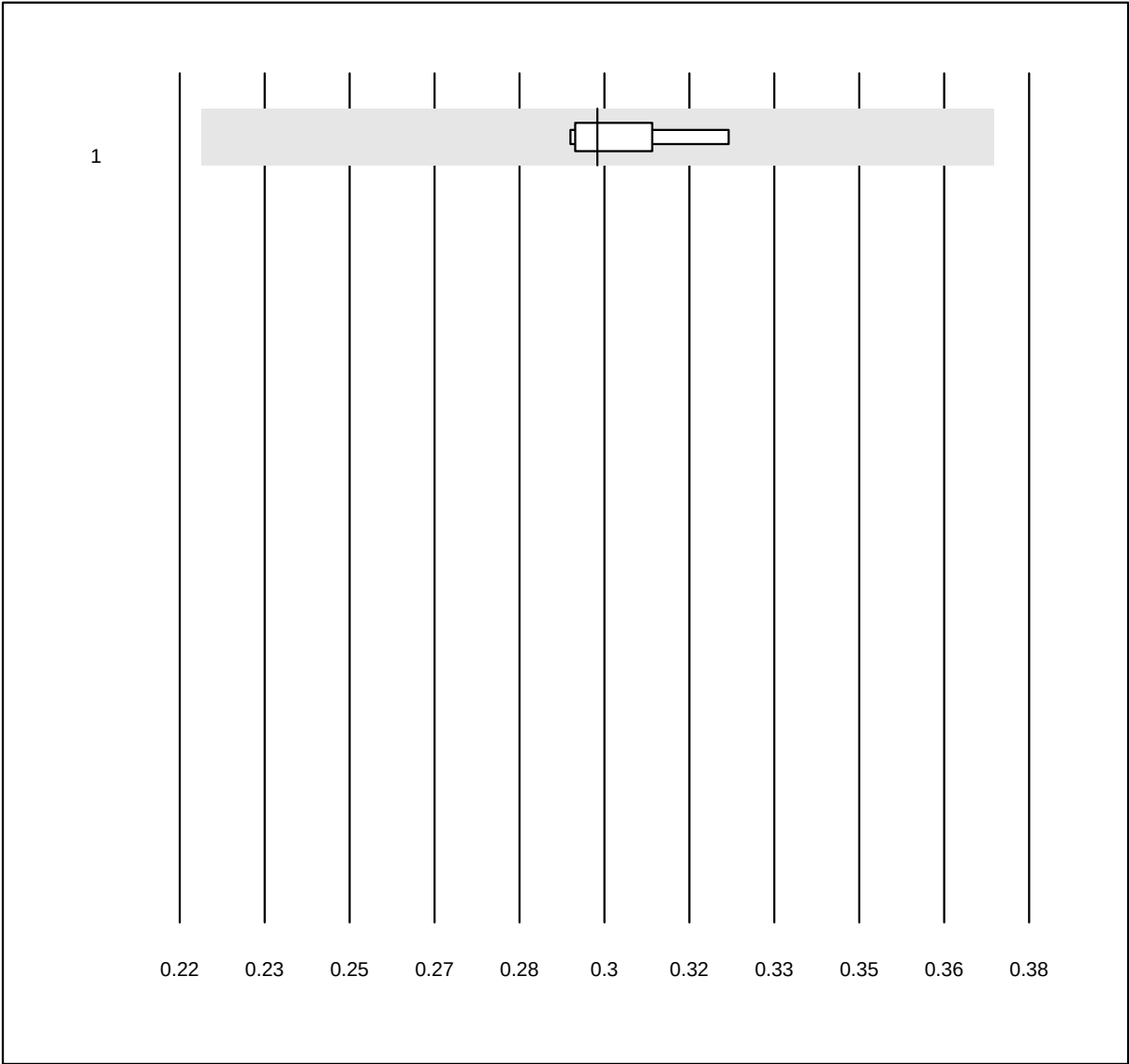
QUALAB Toleranz: 21%

HCG intact (U/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas | 5     | 100.0 | 0.0       | 0.0       | 7.0          | 8.7  | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

S100



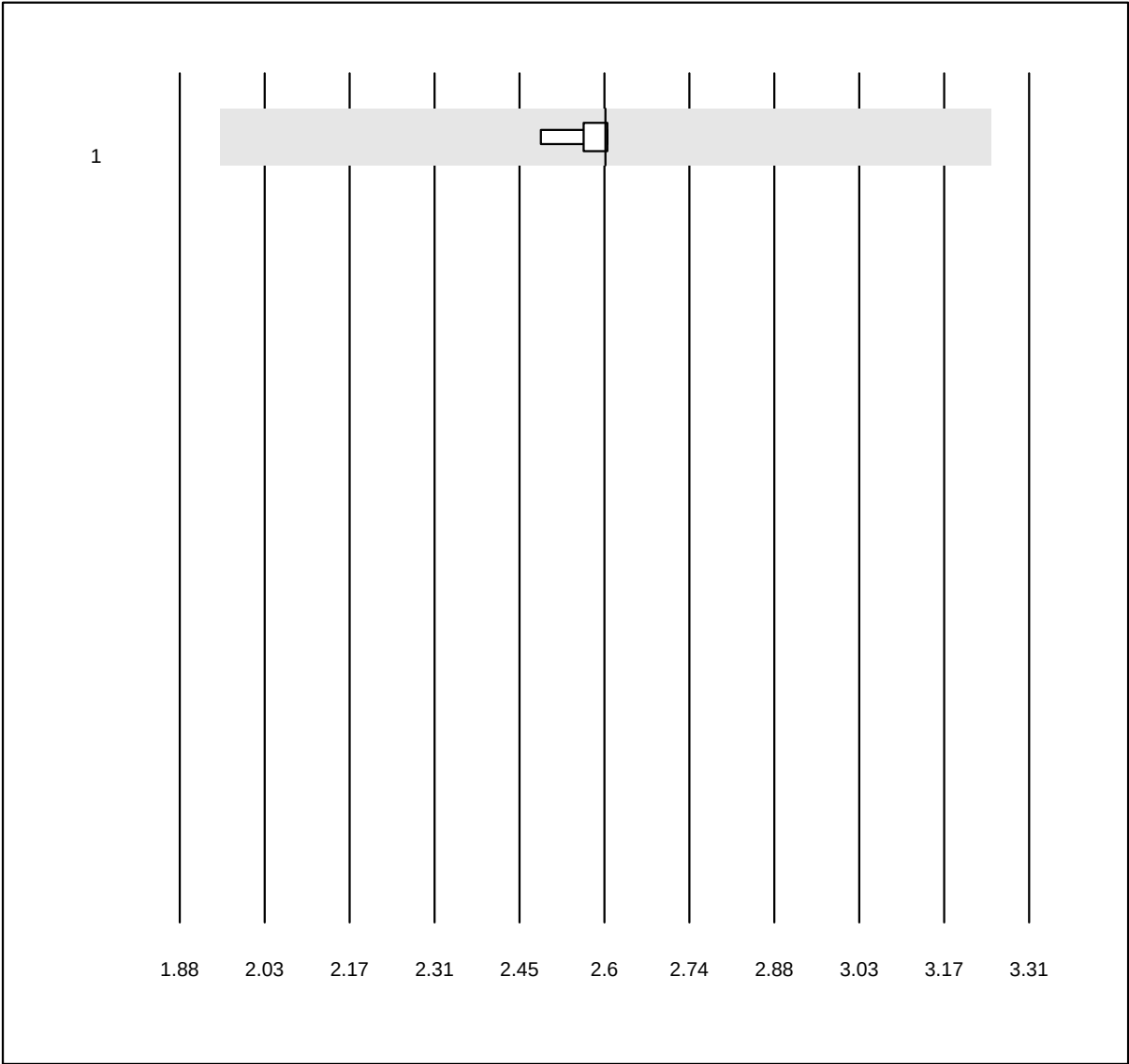
MQ Toleranz: 25%

S100 (µg/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 5     | 100.0 | 0.0       | 0.0       | 0.30         | 3.1  | e    |

K14 Tumor Markers

NSE

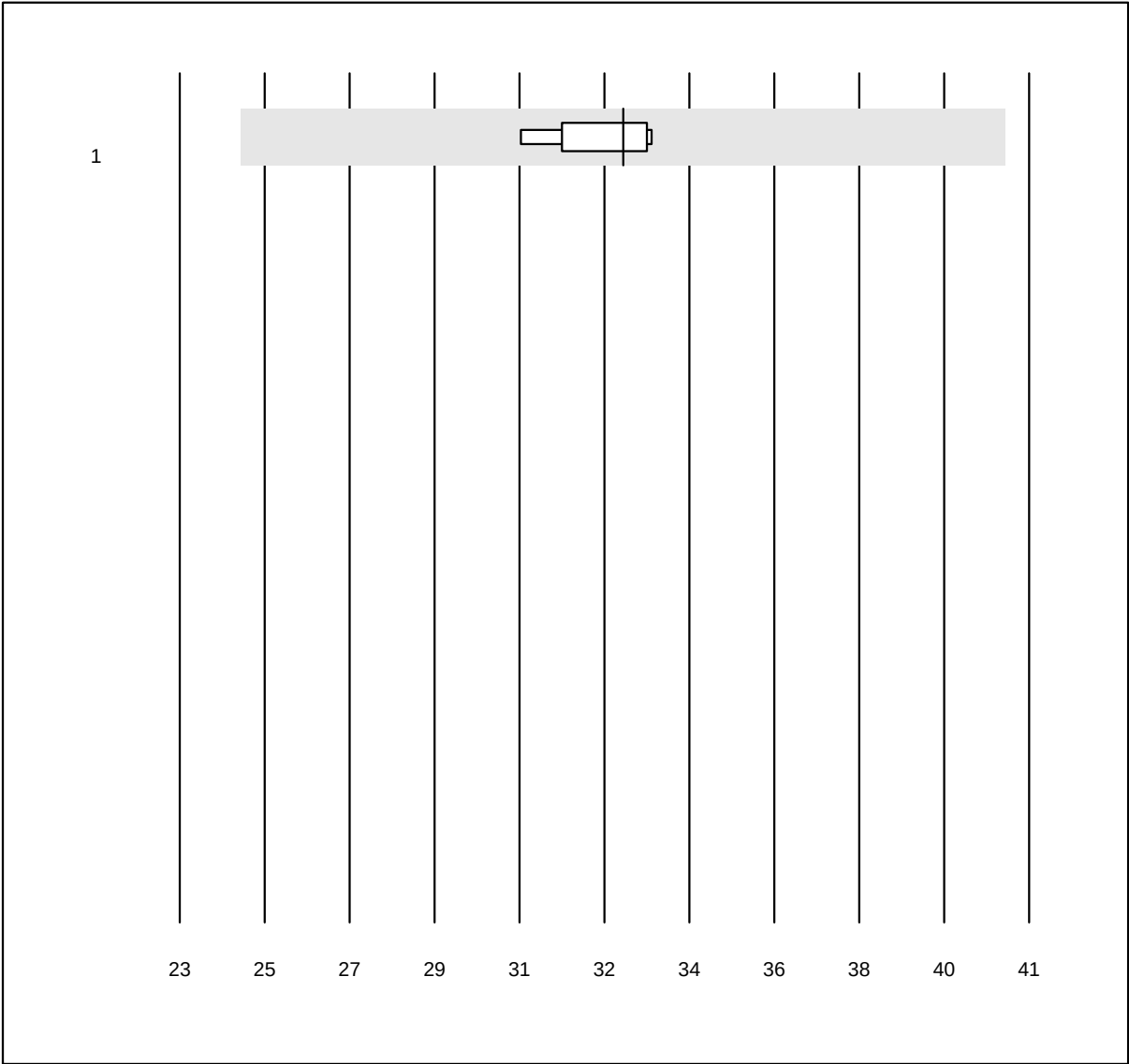


MQ Toleranz: 25%

NSE (ng/ml)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 7     | 100.0 | 0.0       | 0.0       | 2.6          | 1.5  | e    |

Thyreoglobulin



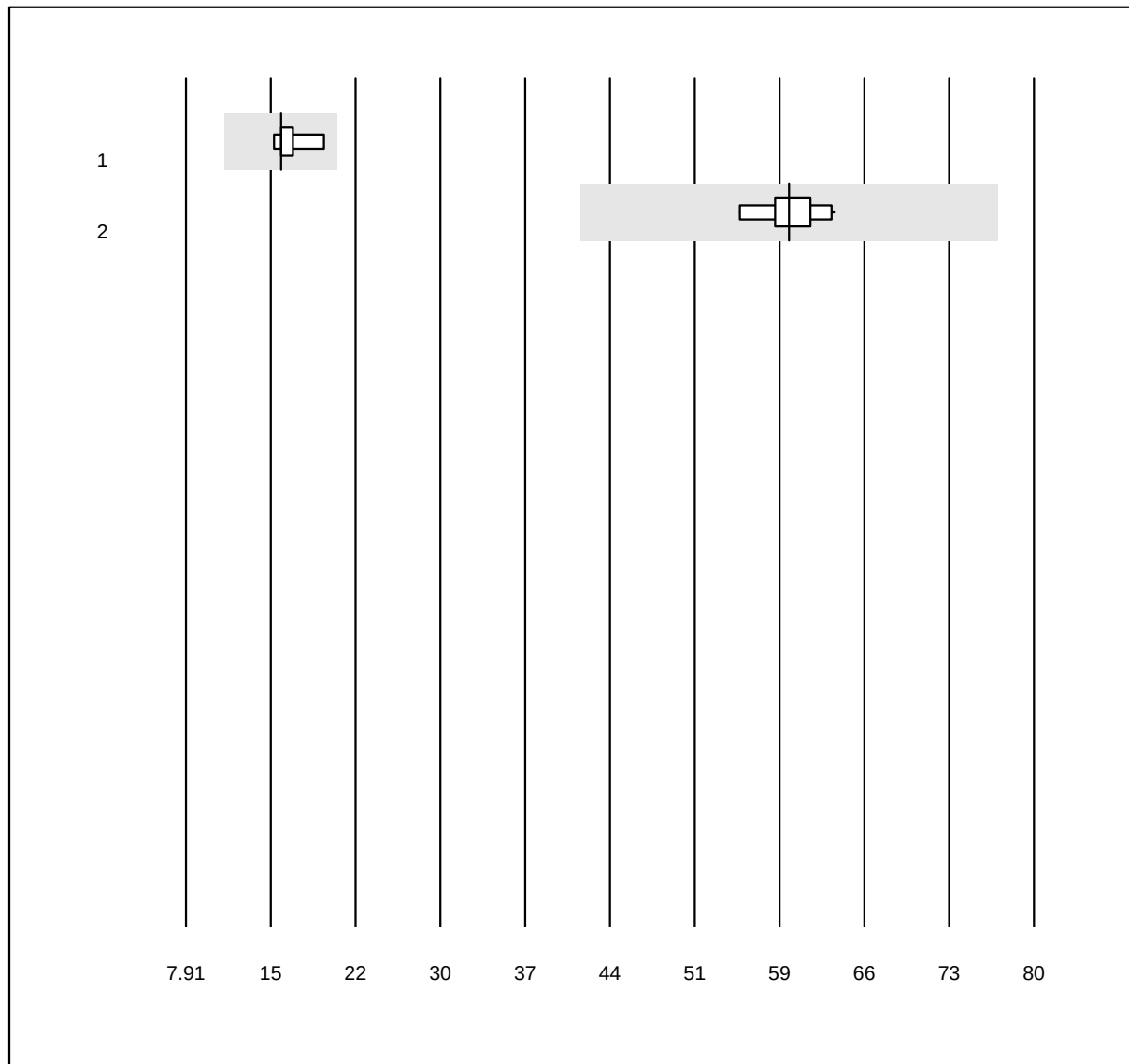
MQ Toleranz: 25%

Thyreoglobulin (µg/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 8     | 100.0 | 0.0       | 0.0       | 32.4         | 3.1  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## CK-MB



MQ Toleranz: 30%

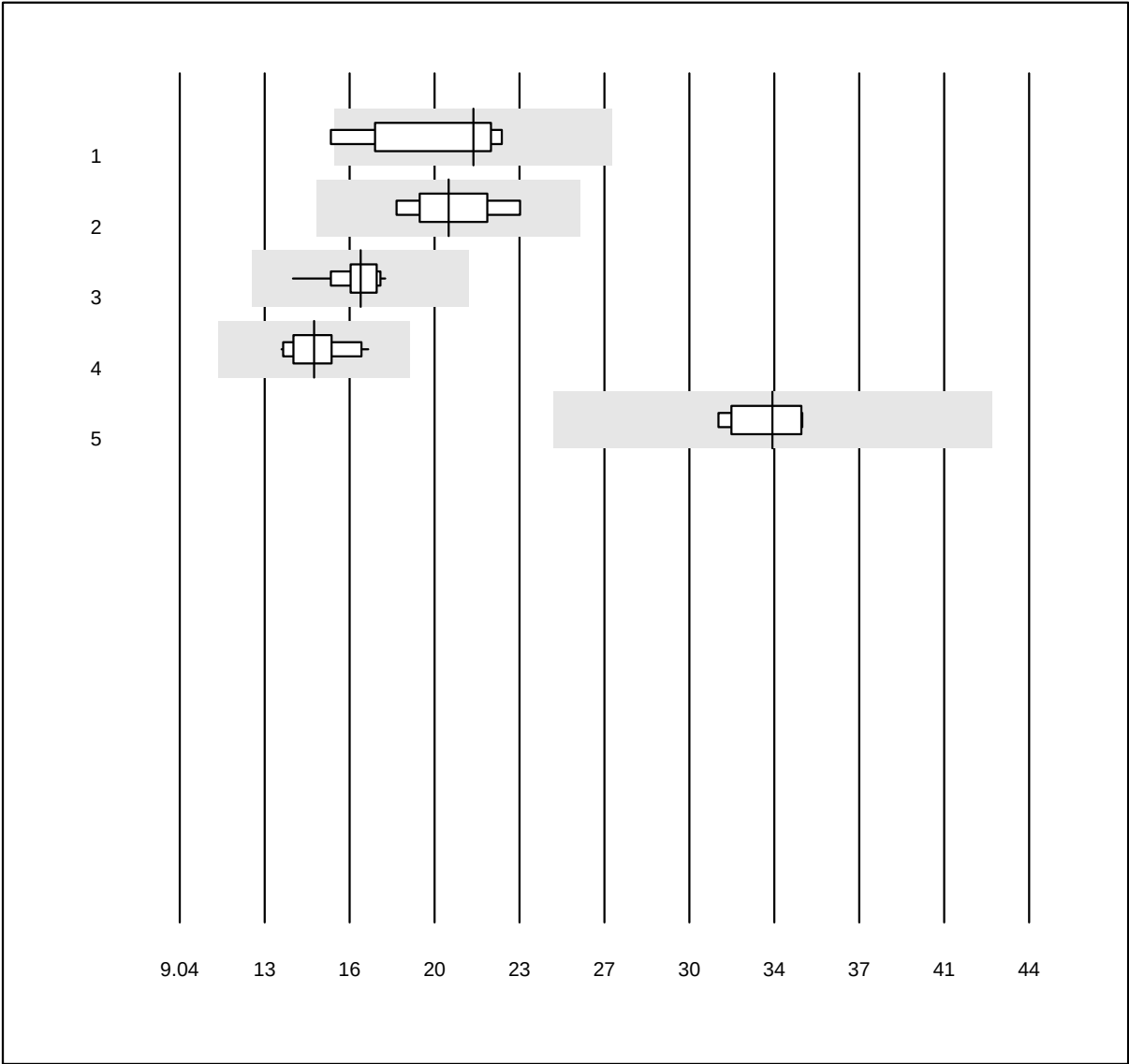
CK-MB (U/l)

| No. | Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Cobas/Roche   | 7     | 100.0 | 0.0       | 0.0       | 16.0         | 7.6  | e    |
| 2   | Fuji Dri-Chem | 12    | 91.7  | 0.0       | 8.3       | 59.2         | 4.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



Procalcitonin



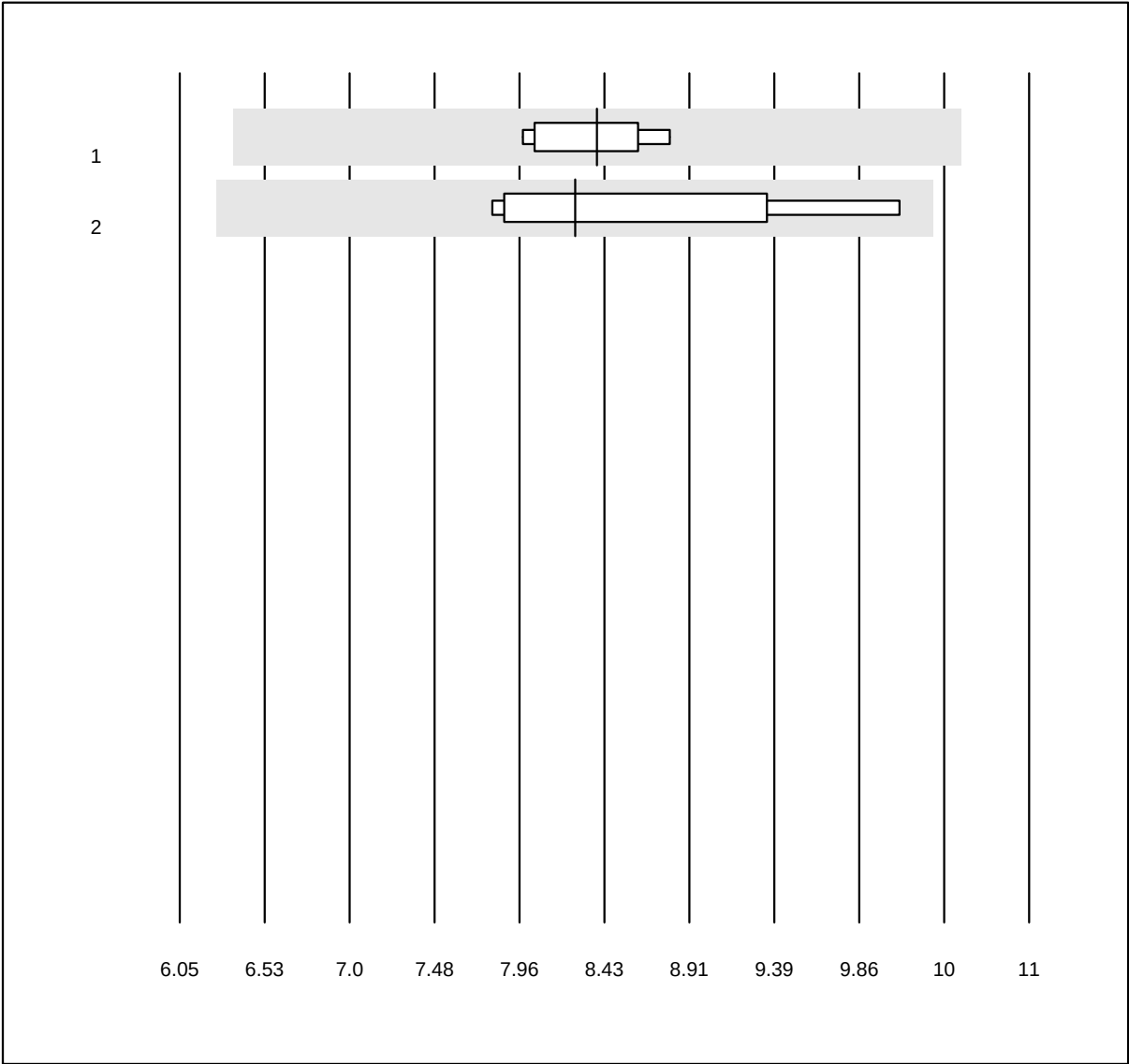
QUALAB Toleranz: 27%

Procalcitonin (µg/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP/CP | 8     | 87.5  | 12.5      | 0.0       | 21.13        | 13.5 | e*   |
| 2 Abbott              | 4     | 100.0 | 0.0       | 0.0       | 20.11        | 7.3  | e*   |
| 3 Cobas               | 22    | 100.0 | 0.0       | 0.0       | 16.49        | 5.3  | e    |
| 4 VIDAS               | 13    | 100.0 | 0.0       | 0.0       | 14.57        | 7.3  | e    |
| 5 andere Methoden     | 4     | 100.0 | 0.0       | 0.0       | 33.44        | 4.7  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

C-Peptid

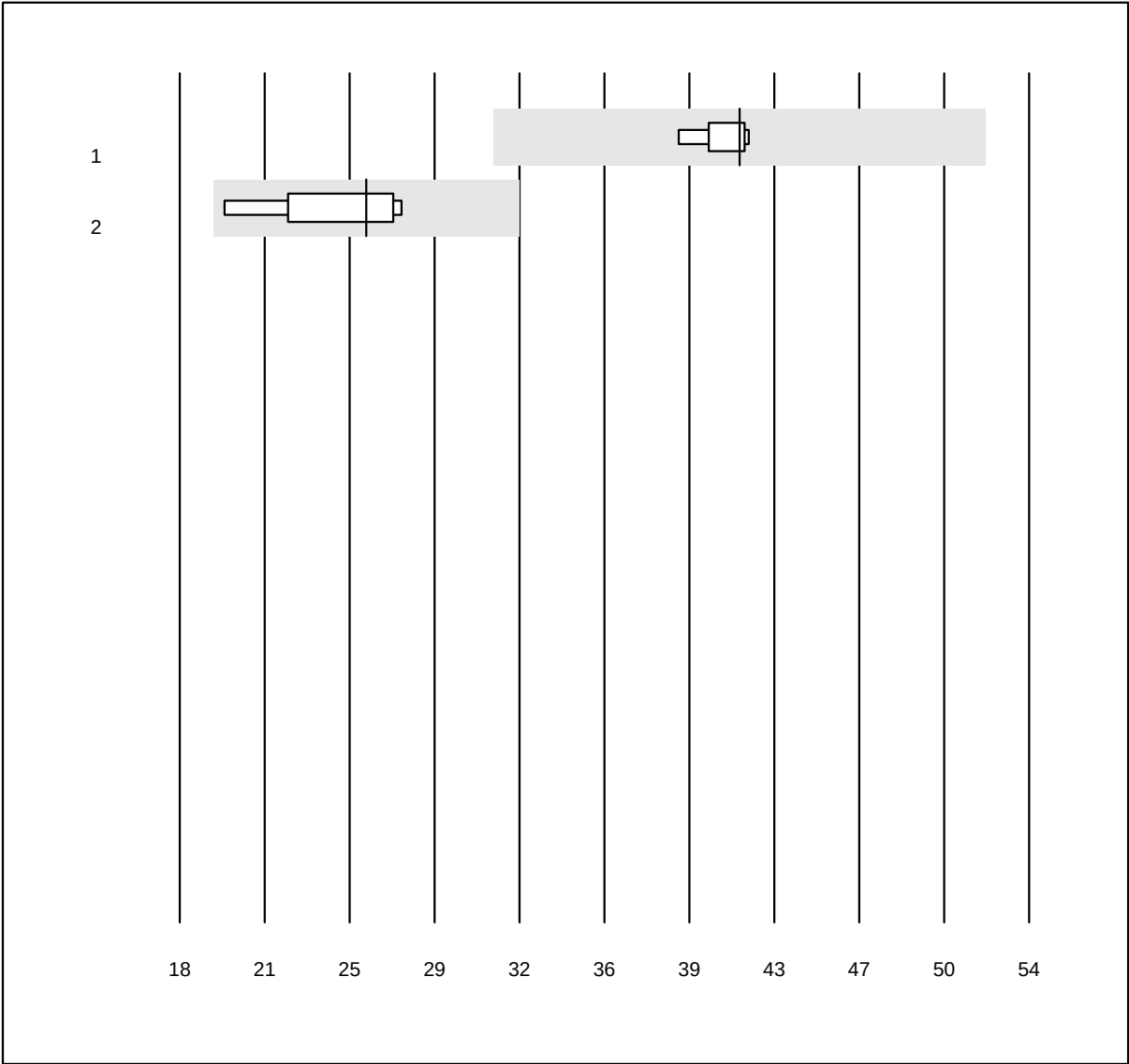


MQ Toleranz: 25%

C-Peptid (nmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 9     | 100.0 | 0.0       | 0.0       | 8.48         | 3.8  | e    |
| 2 andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 8.36         | 9.7  | e*   |

ACTH



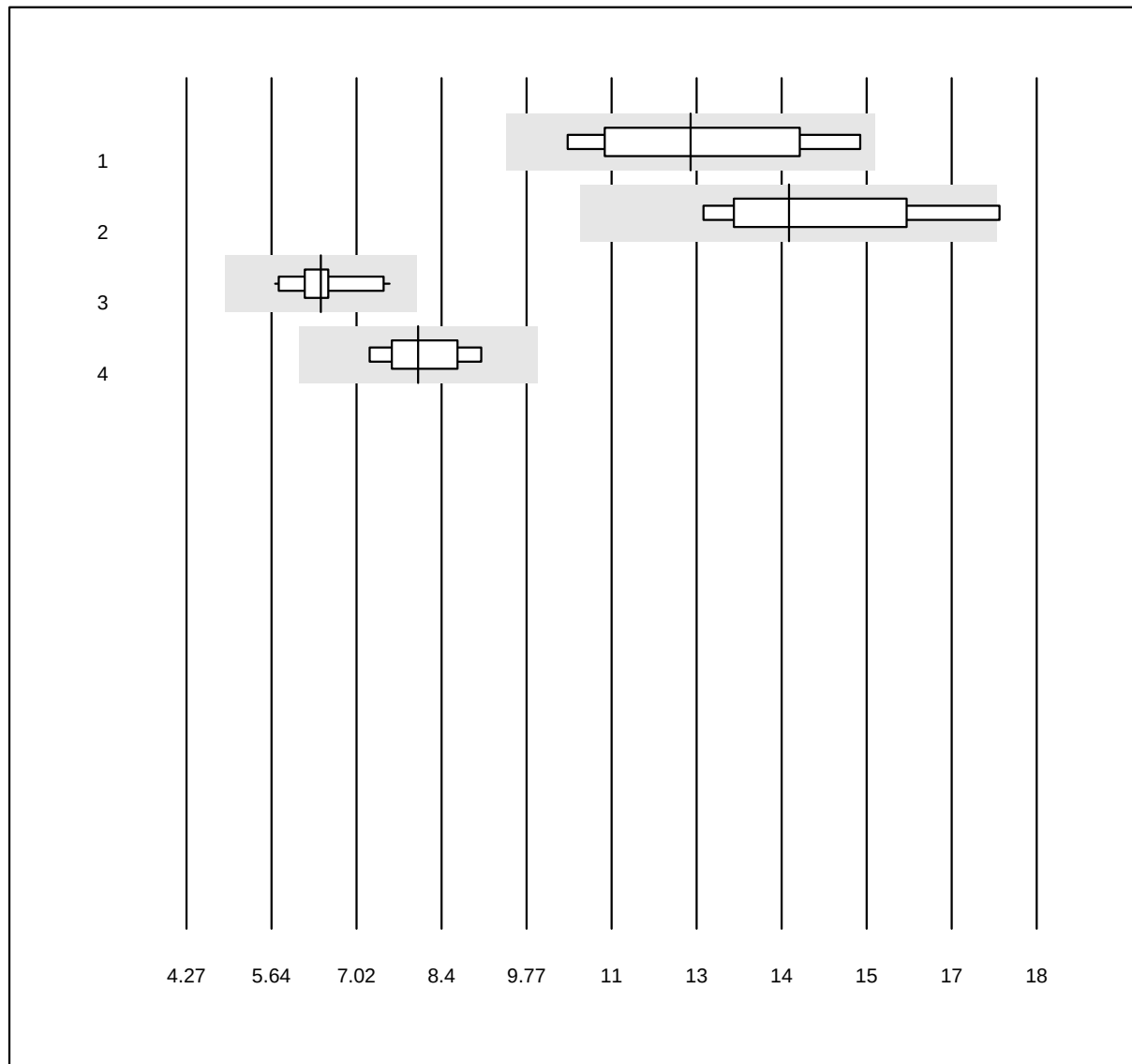
MQ Toleranz: 25%

ACTH (ng/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Liaison | 4     | 100.0 | 0.0       | 0.0       | 41.73        | 2.2  | e    |
| 2   | Roche   | 9     | 100.0 | 0.0       | 0.0       | 25.91        | 10.8 | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Parathyroid hormone



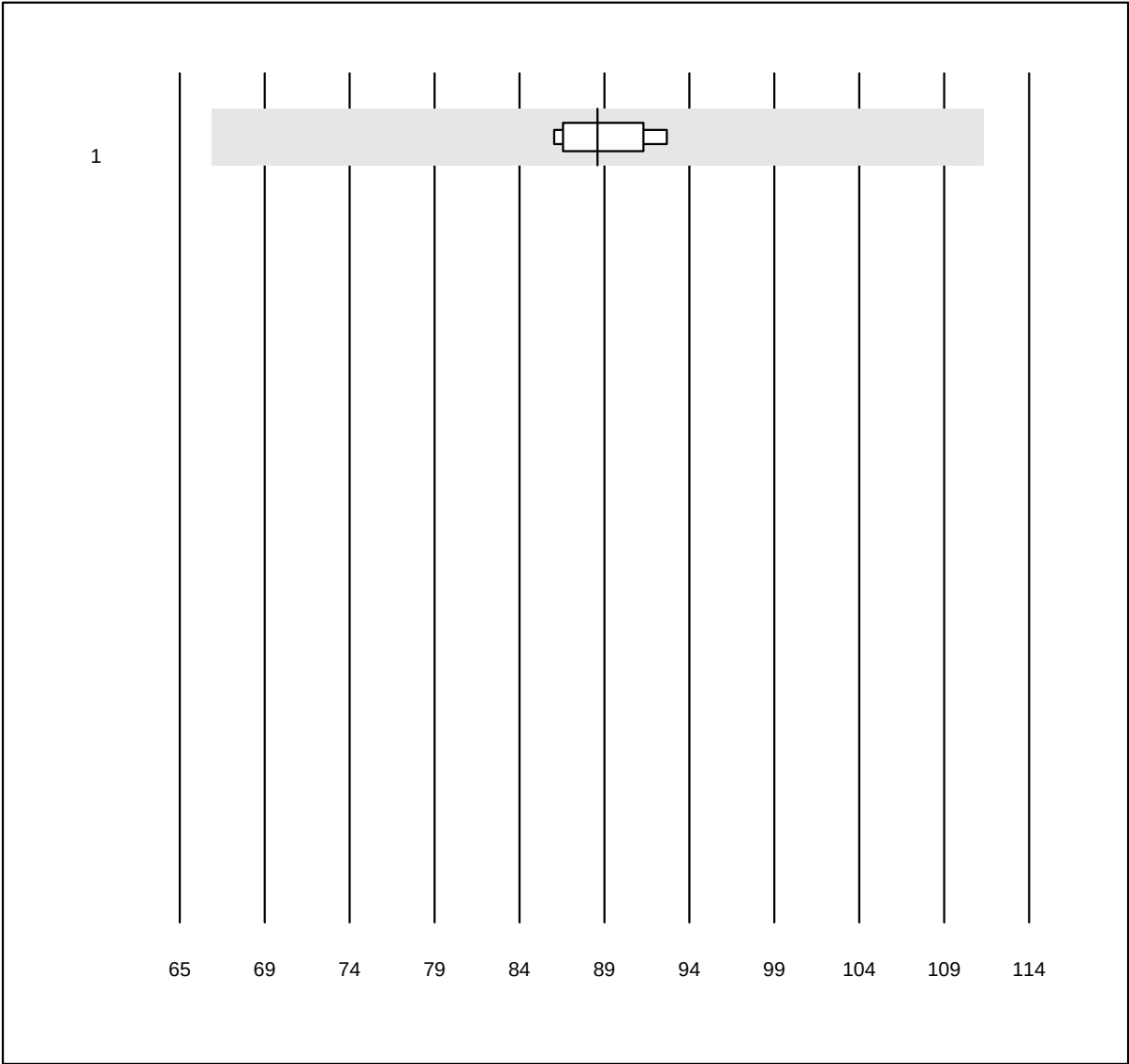
QUALAB Toleranz: 24%

Parathyroid hormone  
(pmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 ADVIA Centaur XP/CP | 4     | 100.0 | 0.0       | 0.0       | 12.4         | 13.1 | e*   |
| 2 Abbott              | 4     | 100.0 | 0.0       | 0.0       | 14.0         | 10.5 | e*   |
| 3 Cobas               | 16    | 100.0 | 0.0       | 0.0       | 6.4          | 7.6  | e    |
| 4 Cobas PTH STAT      | 8     | 100.0 | 0.0       | 0.0       | 8.0          | 7.4  | e    |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

EPO

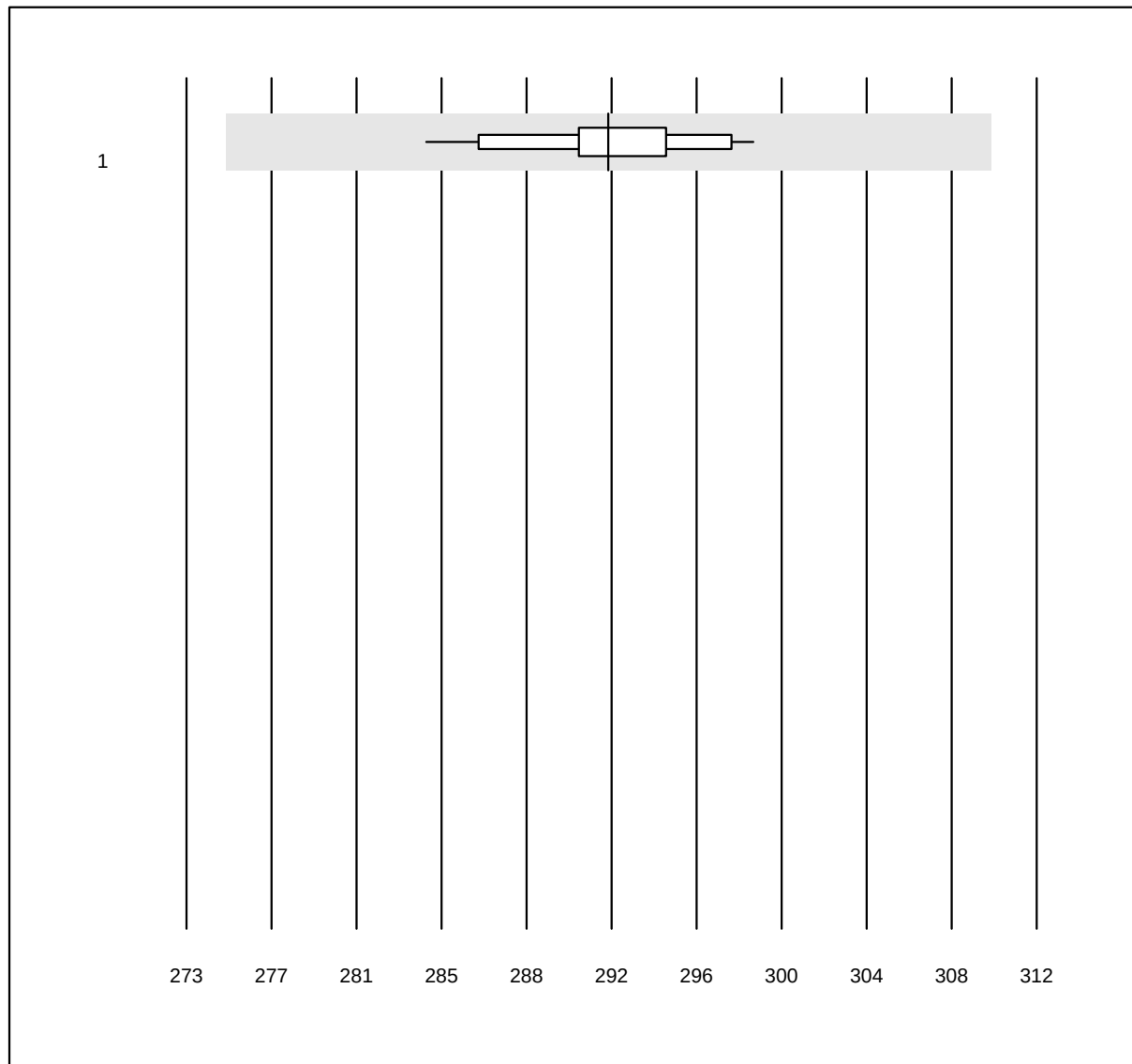


MQ Toleranz: 25%

EPO (U/l)

| No. Methode                                                                                                           |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | andere Methoden | 5     | 100.0 | 0.0       | 0.0       | 89.1         | 2.7  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                 |       |       |           |           |              |      |      |

## Osmolality

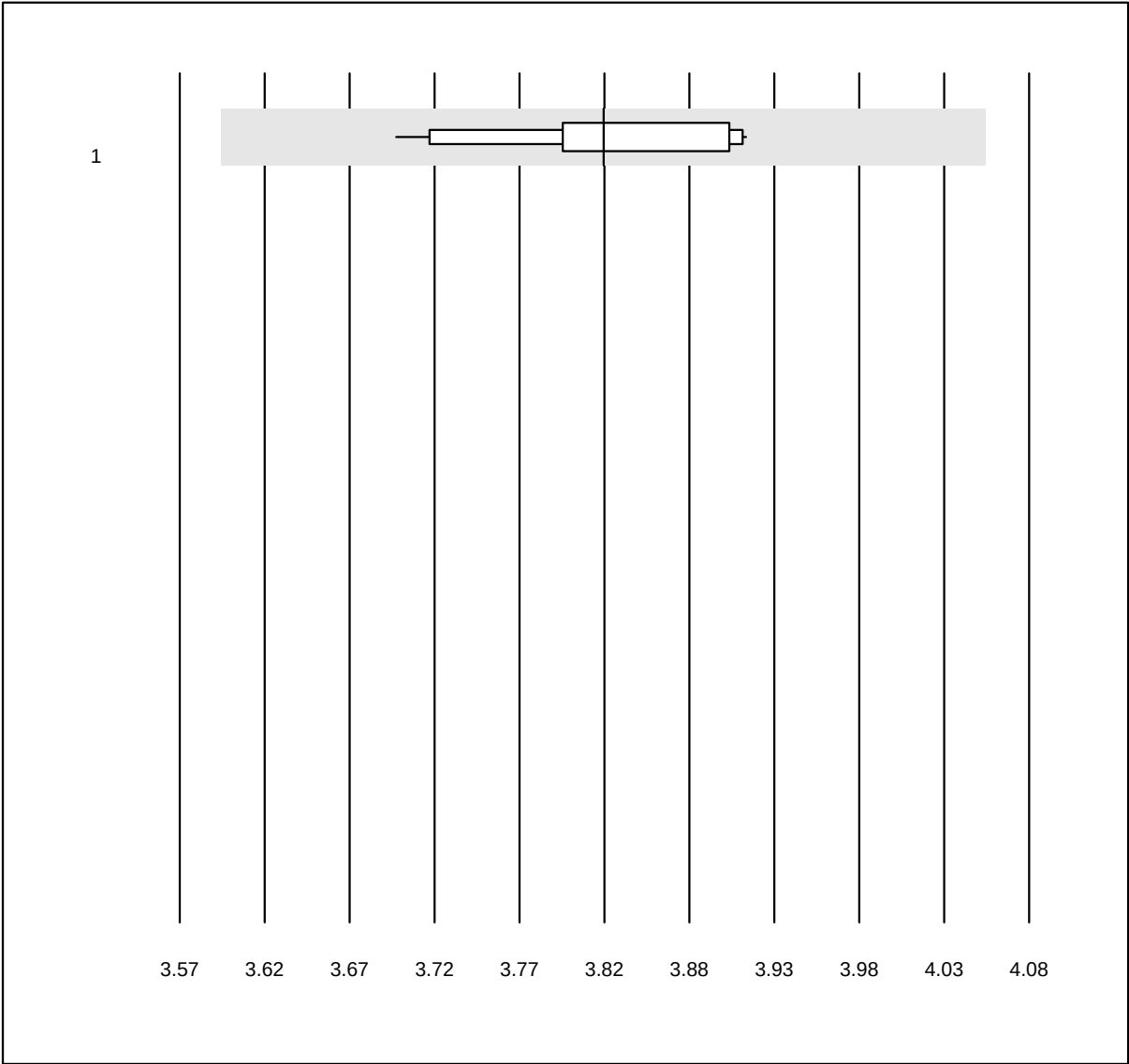


QUALAB Toleranz: 6%

Osmolality (mosm/kg)

| No. Methode |            | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Kryoskopie | 23    | 100.0 | 0.0       | 0.0       | 292          | 1.3  | e    |

Potassium-K22

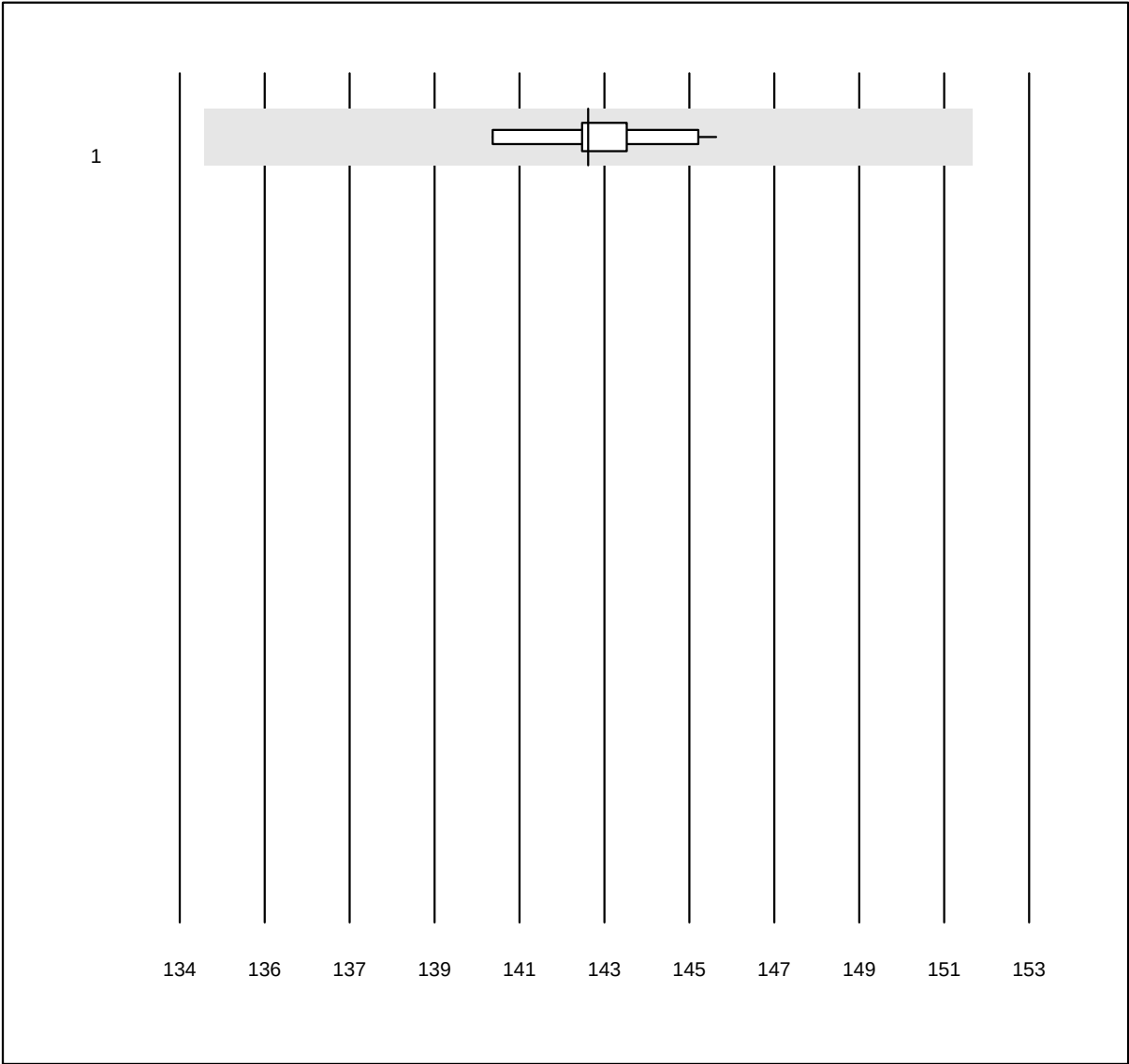


QUALAB Toleranz: 6%

Potassium-K22 (mmol/l)

| No. Methode |     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----|-------|-------|-----------|-----------|--------------|------|------|
| 1           | ISE | 11    | 100.0 | 0.0       | 0.0       | 3.8          | 1.6  | e    |

Sodium-K22



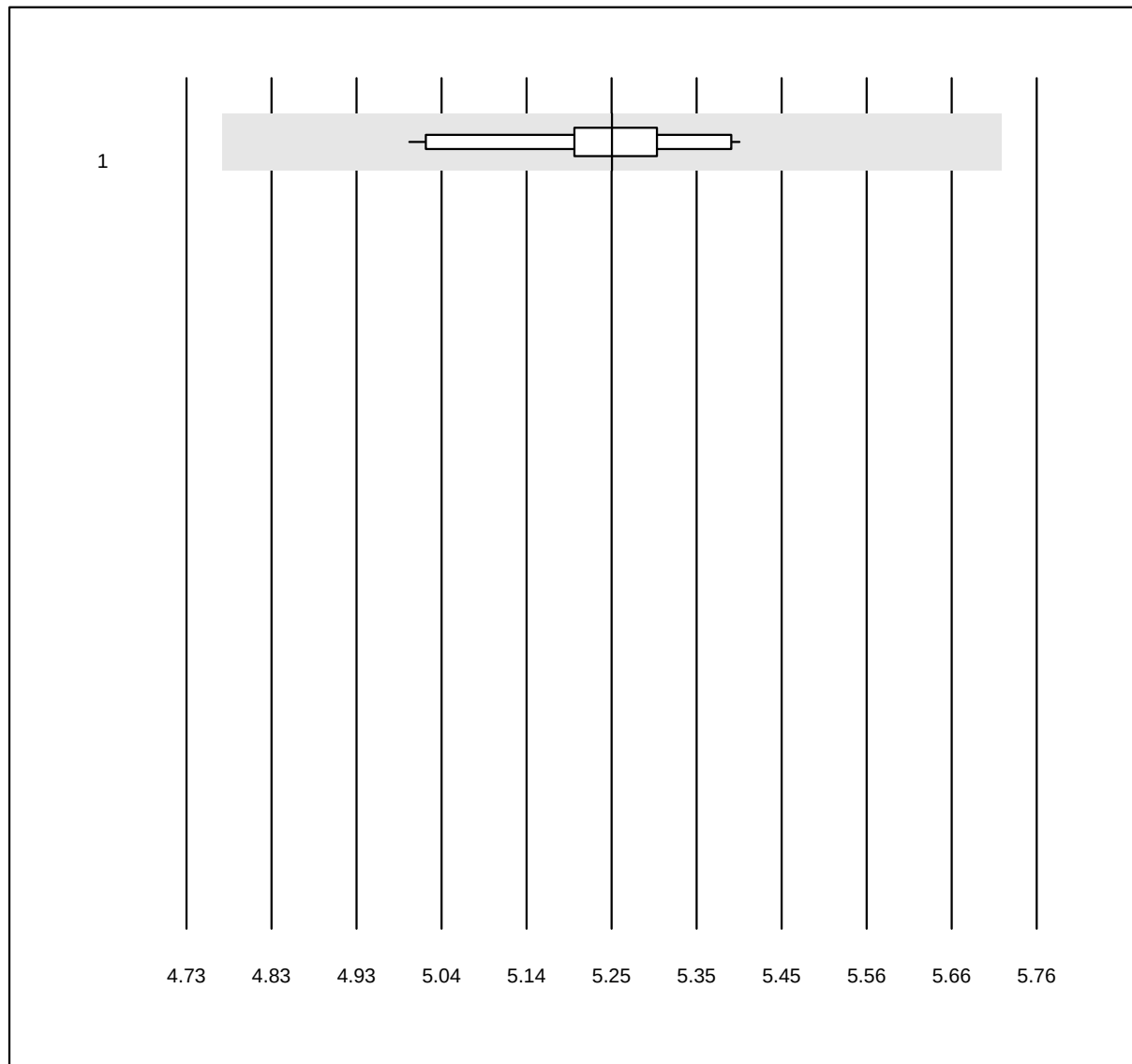
QUALAB Toleranz: 6%

Sodium-K22 (mmol/l)

| No. Methode |     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----|-------|-------|-----------|-----------|--------------|------|------|
| 1           | ISE | 11    | 100.0 | 0.0       | 0.0       | 143          | 1.0  | e    |



## Glucose-K22

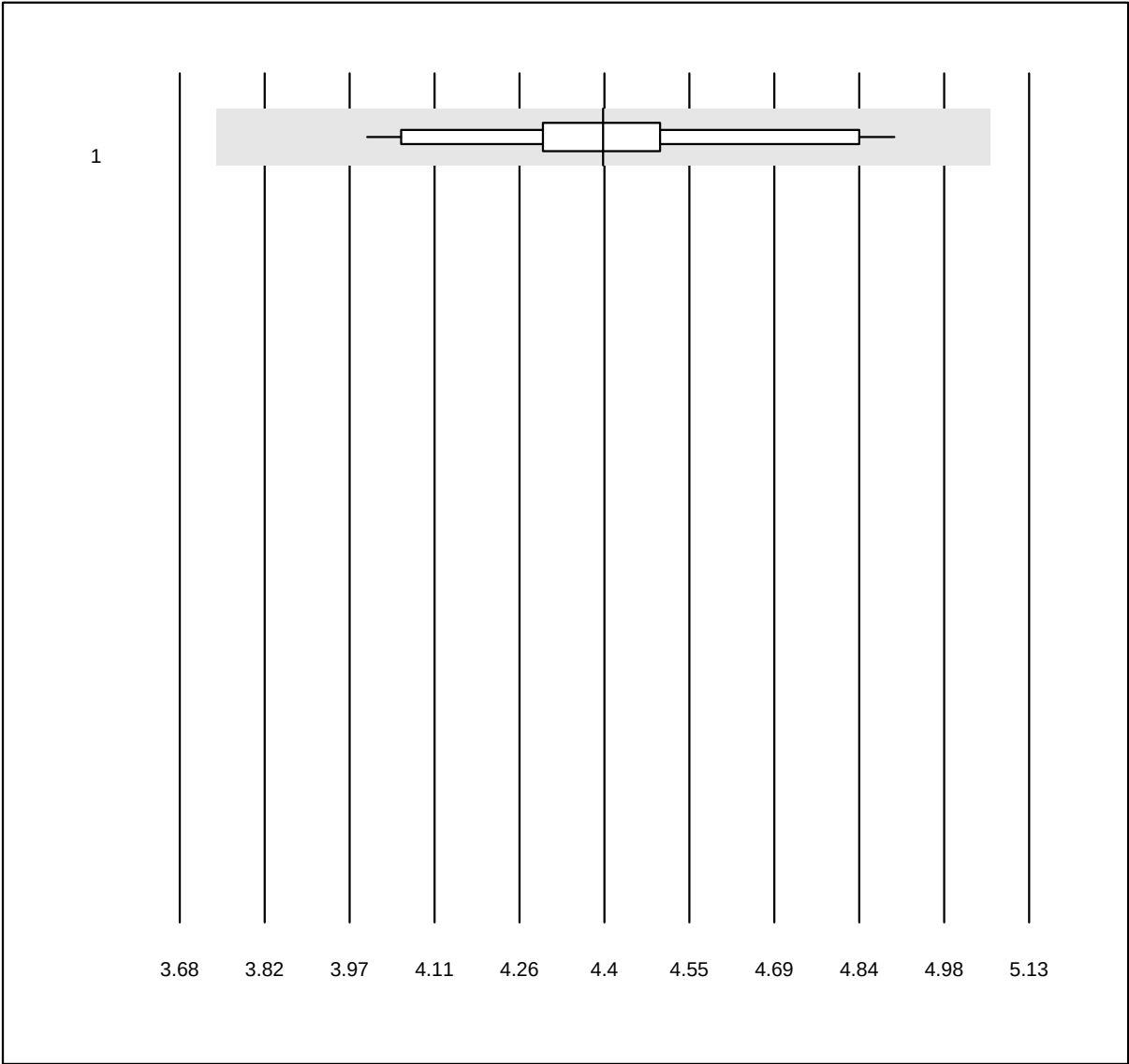


QUALAB Toleranz: 9%

Glucose-K22 (mmol/l)

| No. Methode |              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | nasschemisch | 11    | 100.0 | 0.0       | 0.0       | 5.2          | 2.2  | e    |

Urea-K22

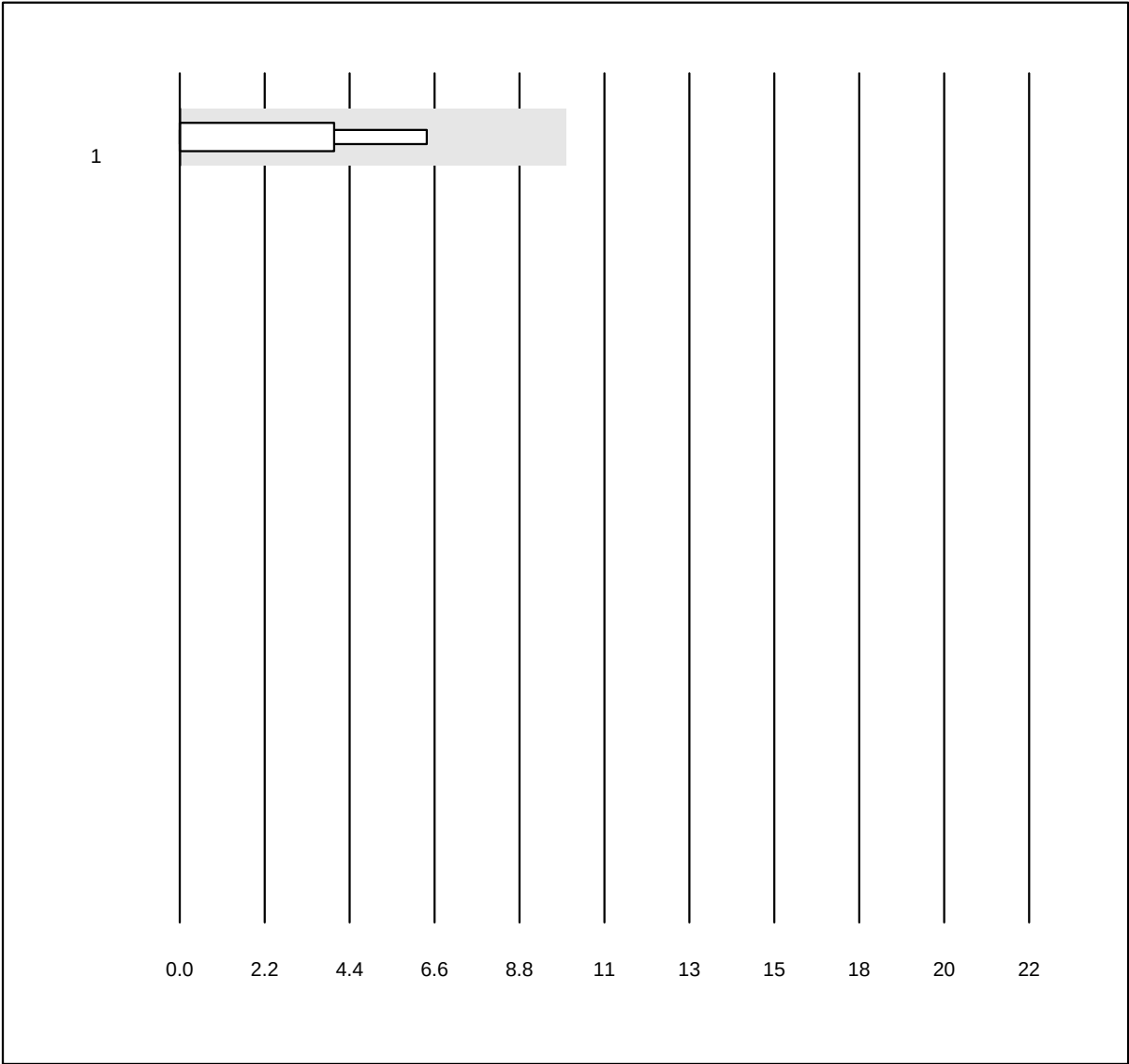


QUALAB Toleranz: 15%

Urea-K22 (mmol/l)

| No. Methode |              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | nasschemisch | 11    | 100.0 | 0.0       | 0.0       | 4.4          | 5.1  | e    |

Osmotic Gap

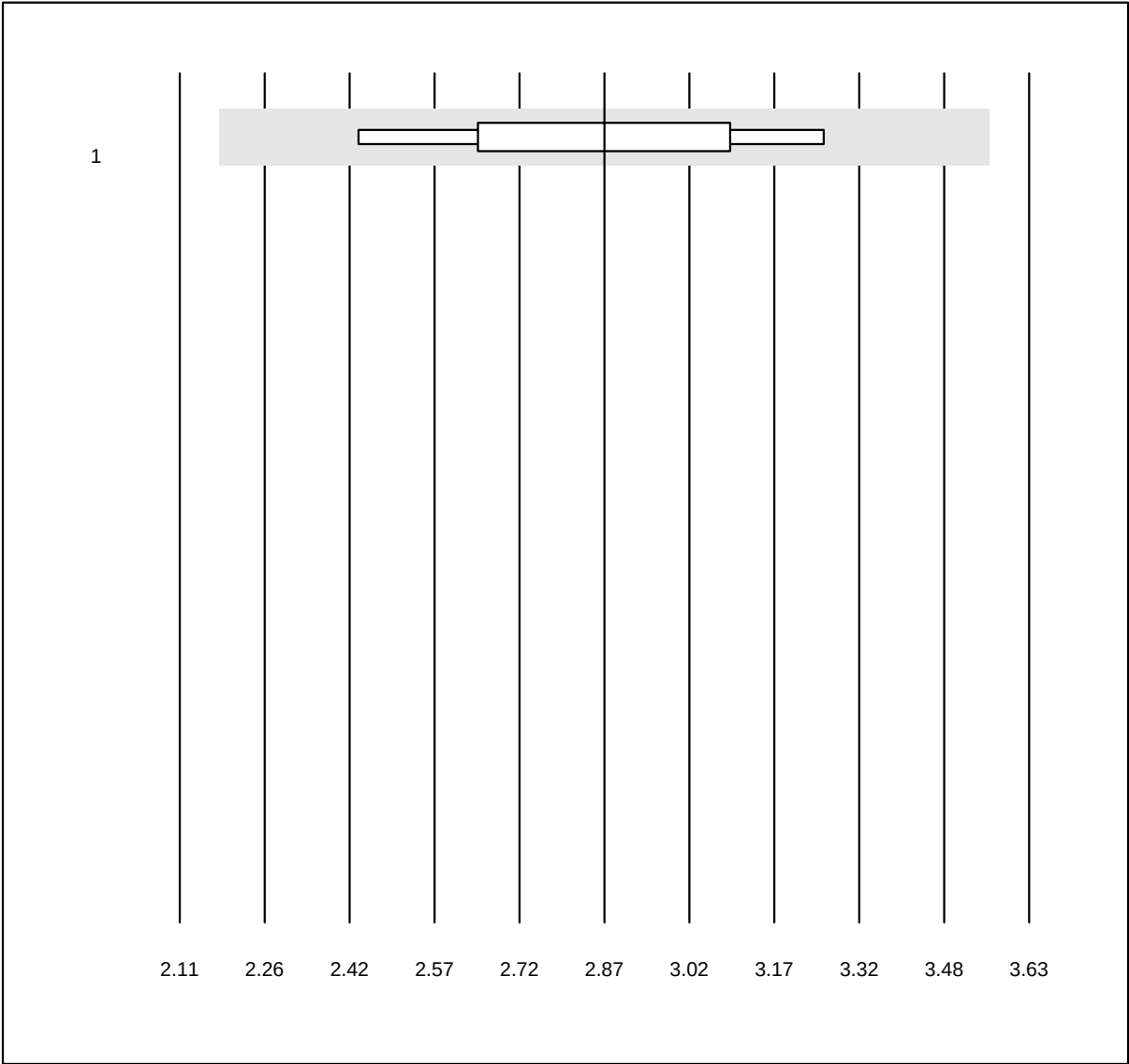


MQ Toleranz: 40%  
( < 5.0: +/- 10.0 mmol/l)

Osmotic Gap (mmol/l)

| No. Methode                                                                                                           |                          | Total | % OK  | % insuff. | % outlier | Target Value | VK %  | Type |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------|-------|-------|-----------|-----------|--------------|-------|------|
| 1                                                                                                                     | Formel 1 (2Na+K+Glu+Hst) | 7     | 100.0 | 0.0       | 0.0       | 0.0          | 147.8 | a    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                          |       |       |           |           |              |       |      |

Digoxin

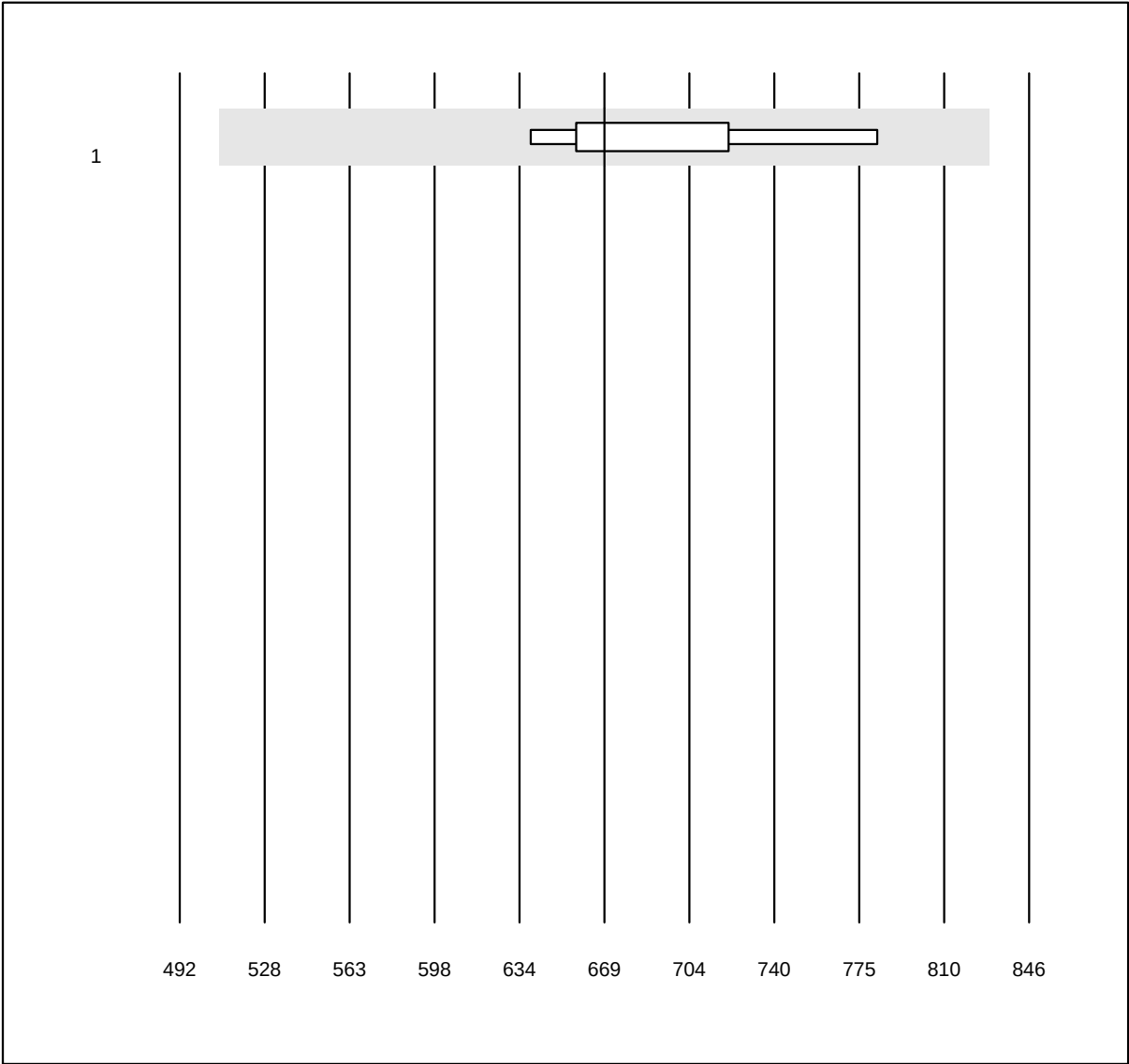


QUALAB Toleranz: 24%

Digoxin (nmol/l)

| No. Methode                                                                                                           |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | andere Methoden | 9     | 100.0 | 0.0       | 0.0       | 2.87         | 9.3  | e*   |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                 |       |       |           |           |              |      |      |

Valproat

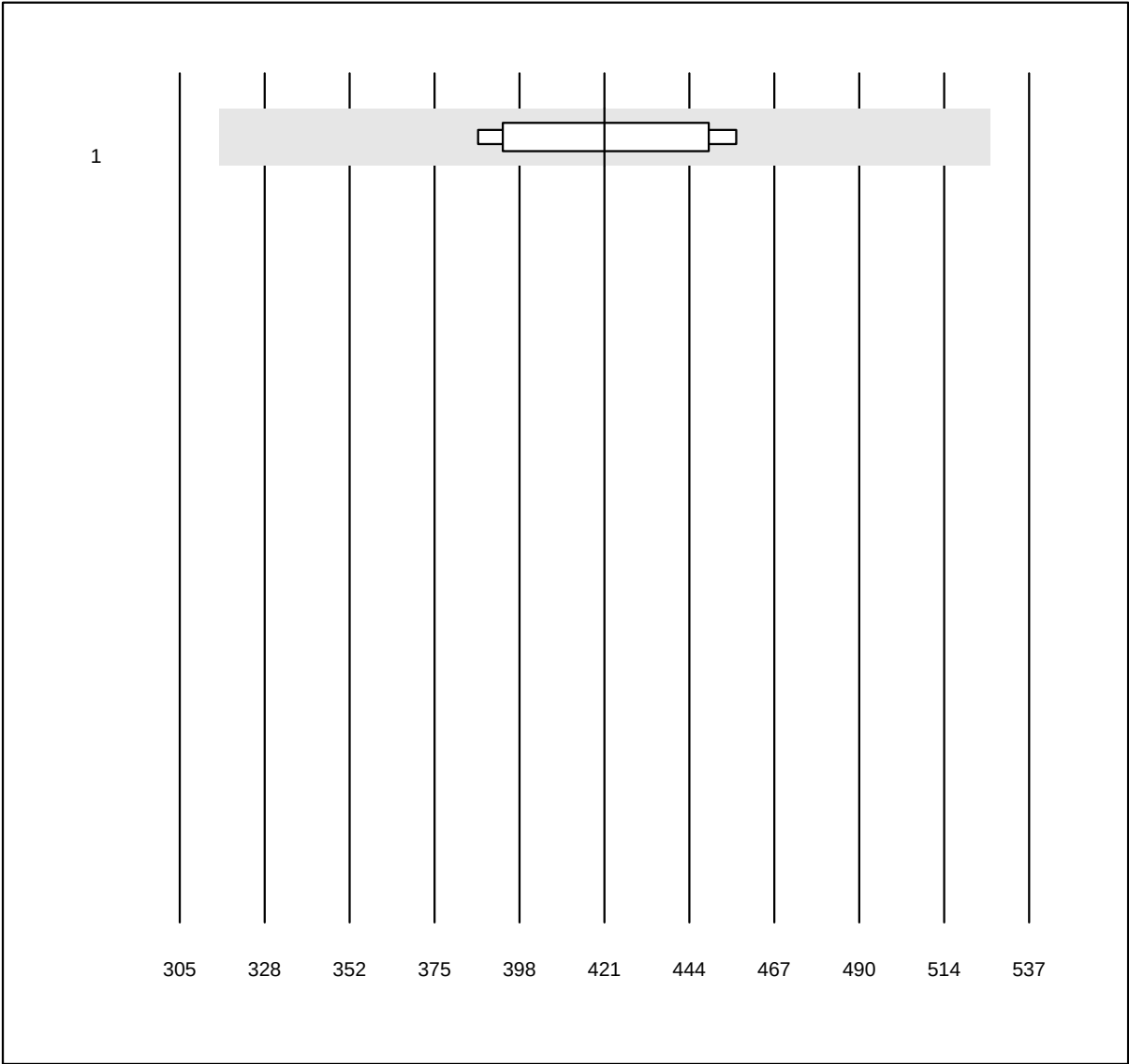


MQ Toleranz: 24%

Valproat (μmol/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 8     | 100.0 | 0.0       | 0.0       | 669.0        | 6.7  | e    |

Paracetamol



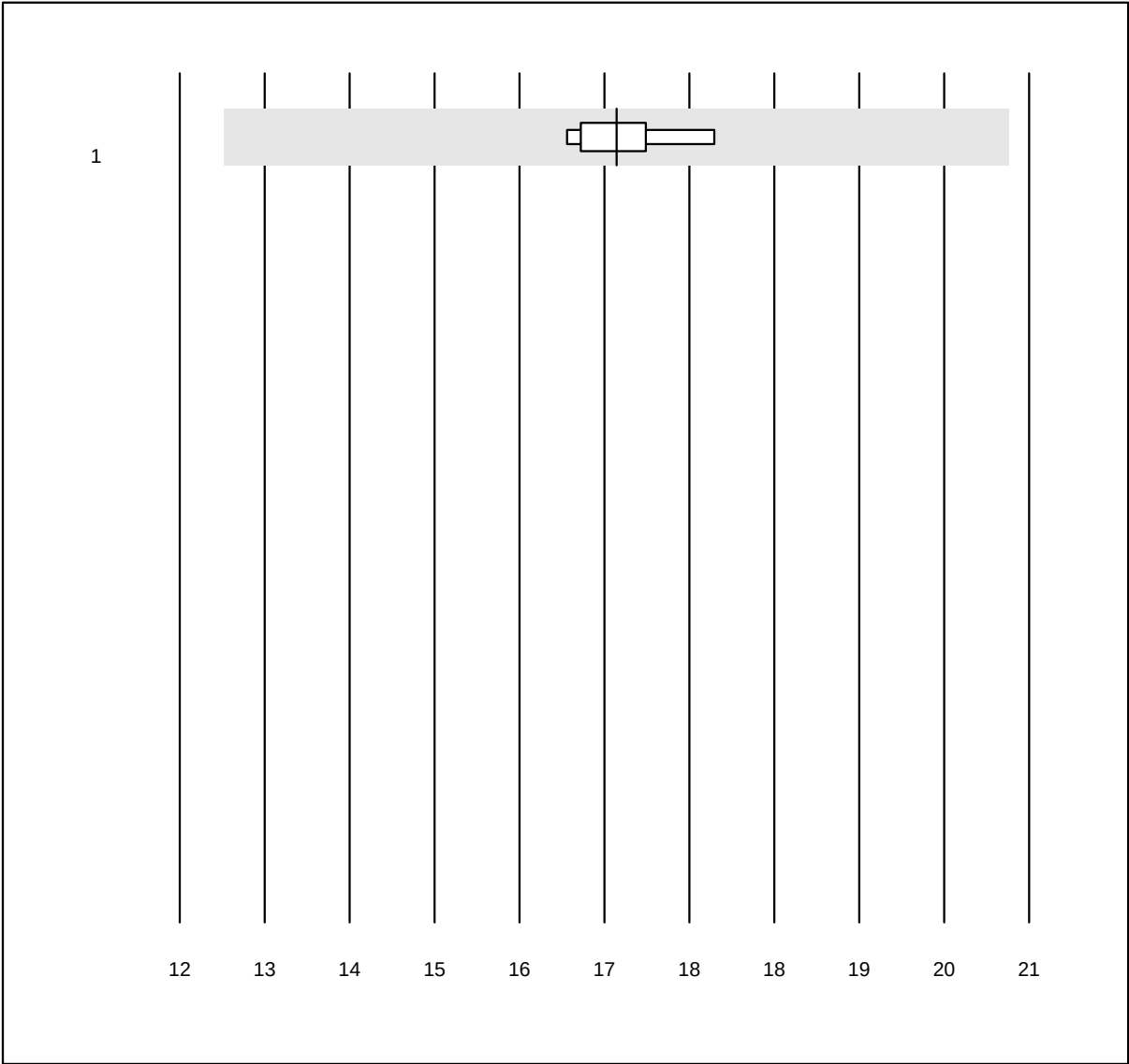
MQ Toleranz: 25%

Paracetamol (μmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 4     | 100.0 | 0.0       | 0.0       | 421.0        | 7.2  | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Vancomycin



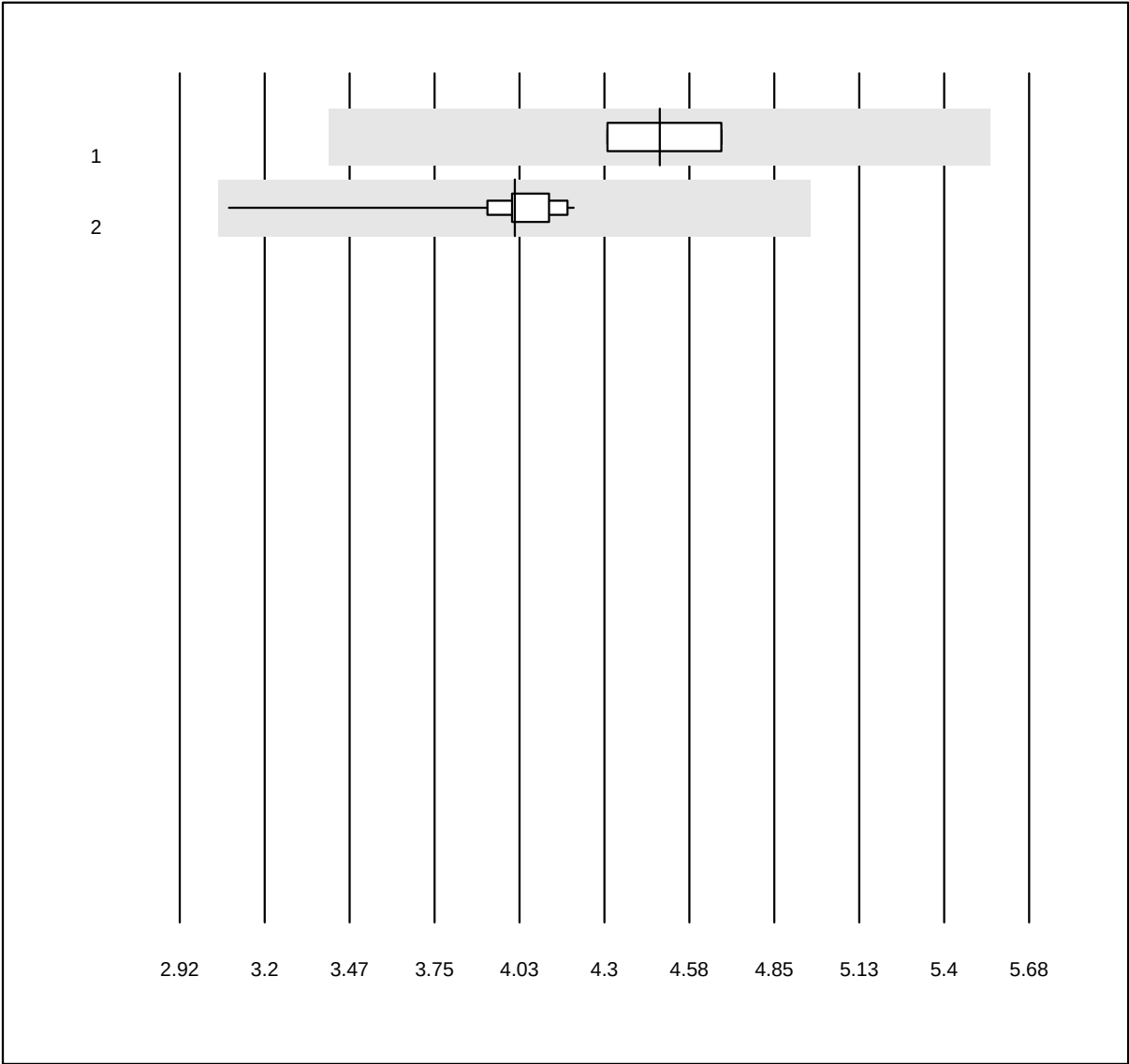
MQ Toleranz: 25%

Vancomycin (µmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 6     | 100.0 | 0.0       | 0.0       | 16.6         | 2.8  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Cystatin C



MQ Toleranz: 24%

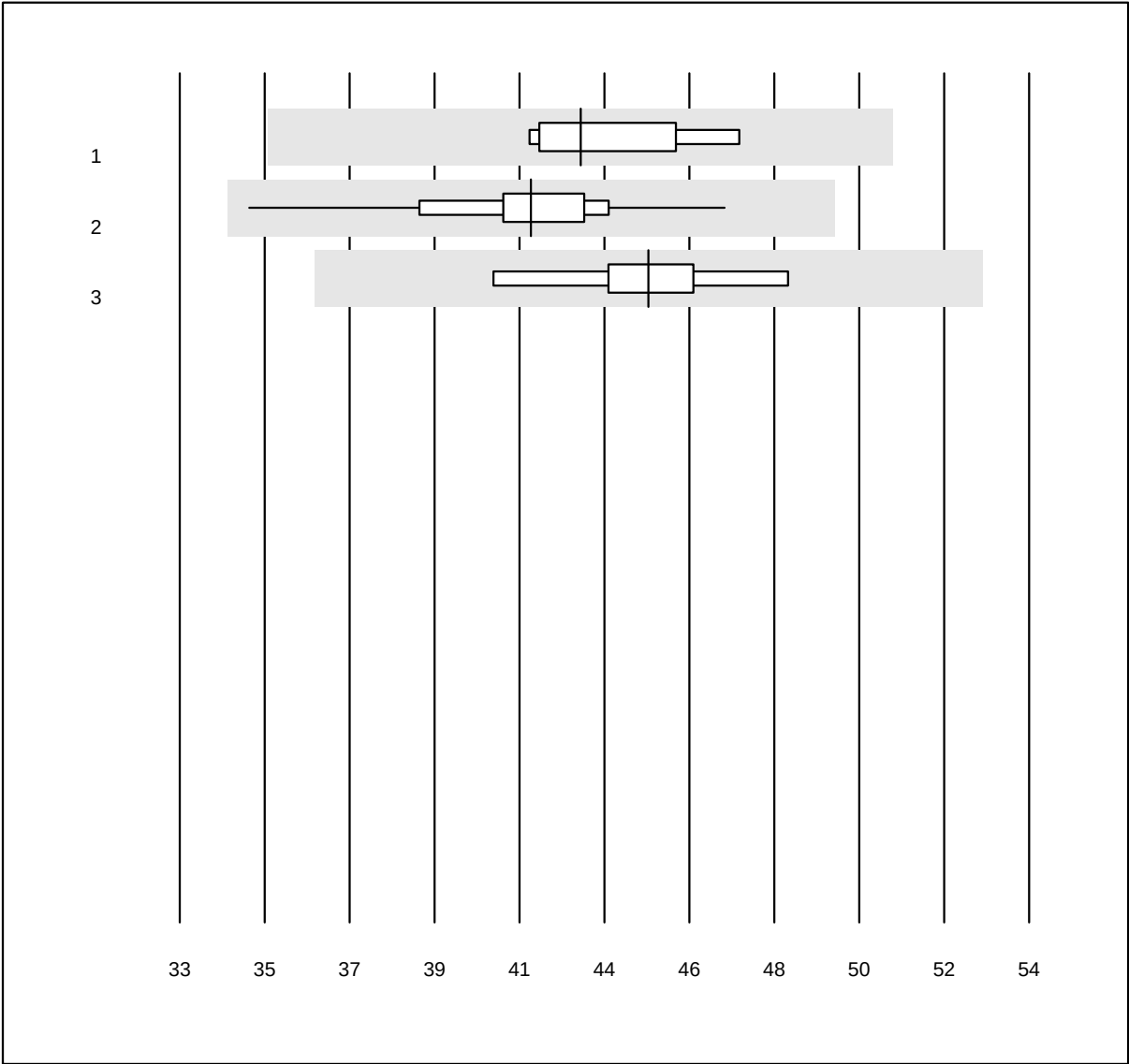
Cystatin C (mg/l)

| No. | Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Nephelometrie | 5     | 100.0 | 0.0       | 0.0       | 4.48         | 4.1  | e    |
| 2   | Roche         | 19    | 100.0 | 0.0       | 0.0       | 4.01         | 5.9  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



Ethanol



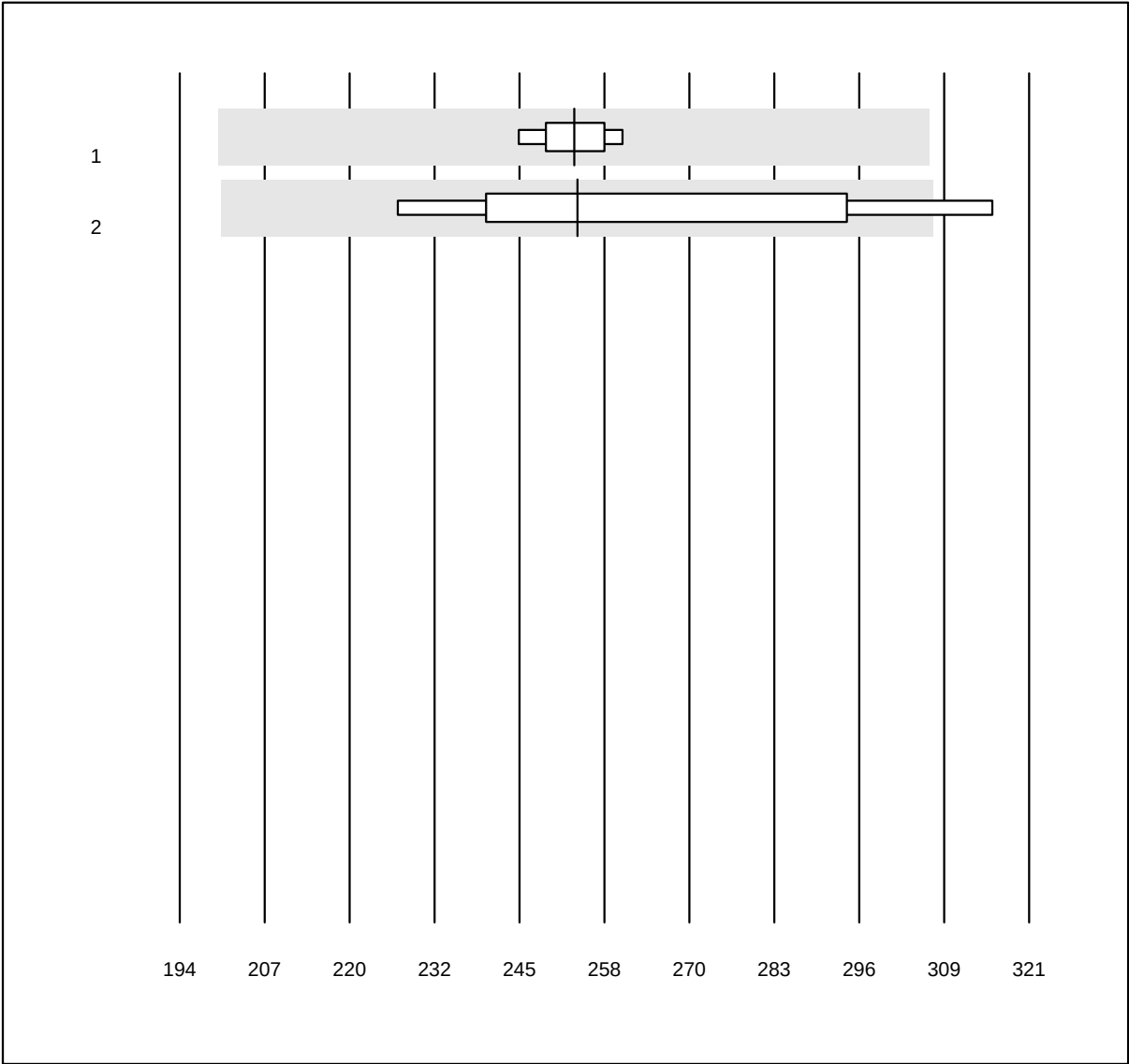
QUALAB Toleranz: 18%

Ethanol (mmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 42.9         | 4.2  | e    |
| 2 Roche     | 26    | 100.0 | 0.0       | 0.0       | 41.7         | 5.2  | e    |
| 3 Siemens   | 7     | 100.0 | 0.0       | 0.0       | 44.6         | 4.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Ammonia



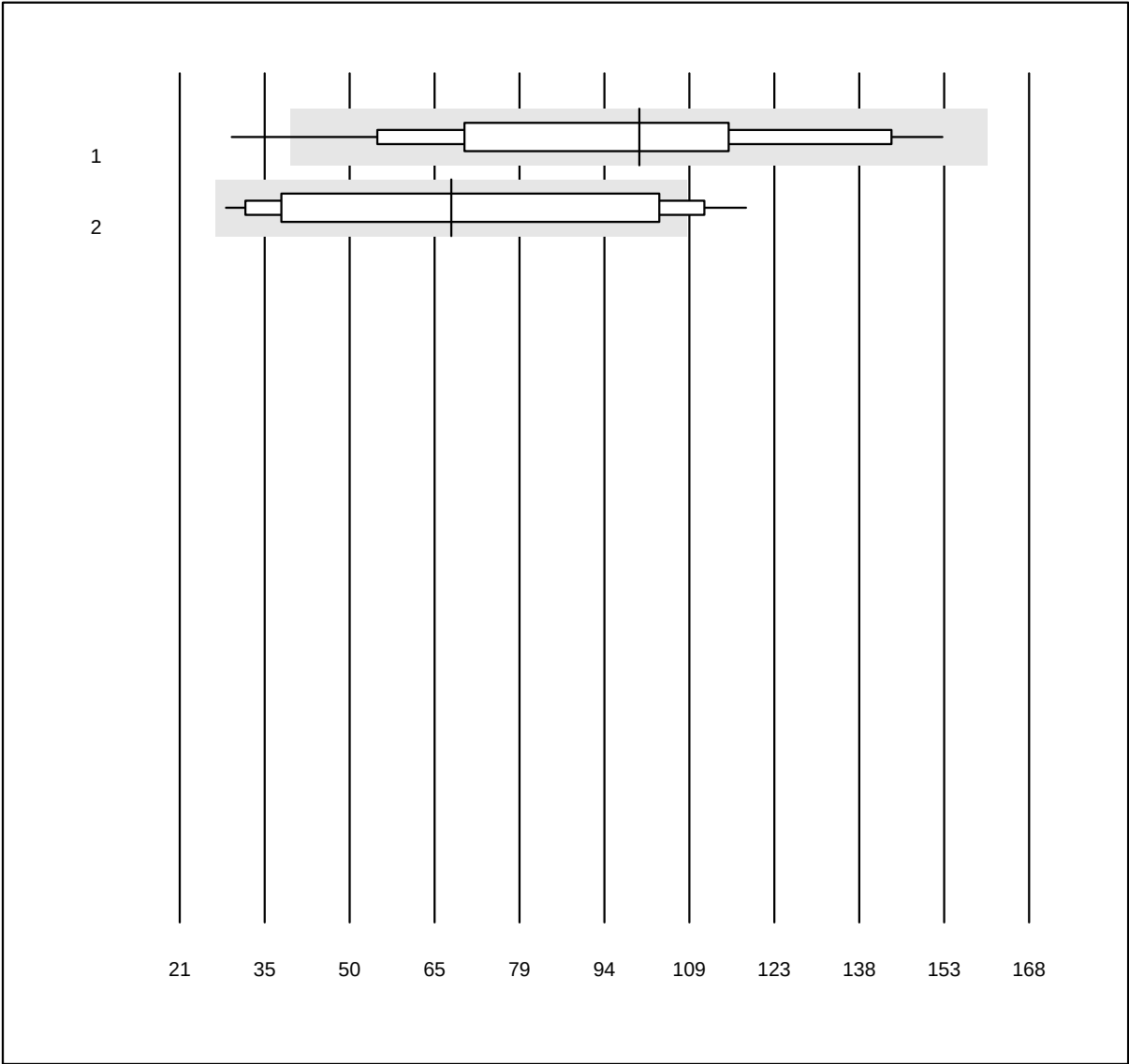
QUALAB Toleranz: 21%

Ammonia (µmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 8     | 100.0 | 0.0       | 0.0       | 253.0        | 2.0  | e    |
| 2 andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 253.5        | 10.6 | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Calprotectin



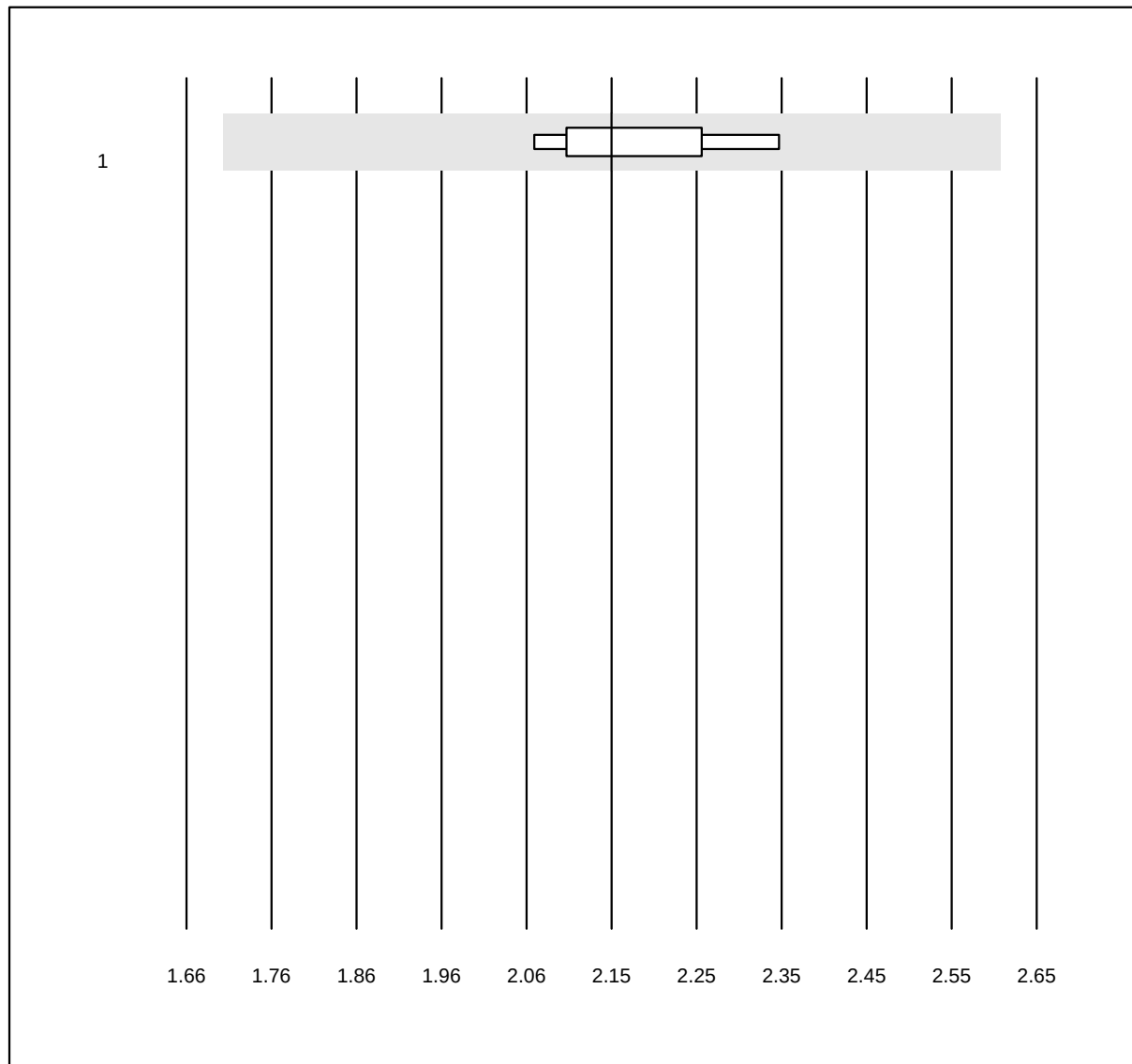
MQ Toleranz: 40%

Calprotectin (µg/g)

| No. Methode             | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1    Bühlmann fCALturbo | 21    | 81.0 | 4.8       | 14.3      | 101          | 34.9 | a*   |
| 2    Liaison            | 15    | 93.3 | 6.7       | 0.0       | 68           | 43.7 | a*   |

4 additional results were submitted but not published because the method groups were too small. (< results per group)

## Cholesterol HDL PTS

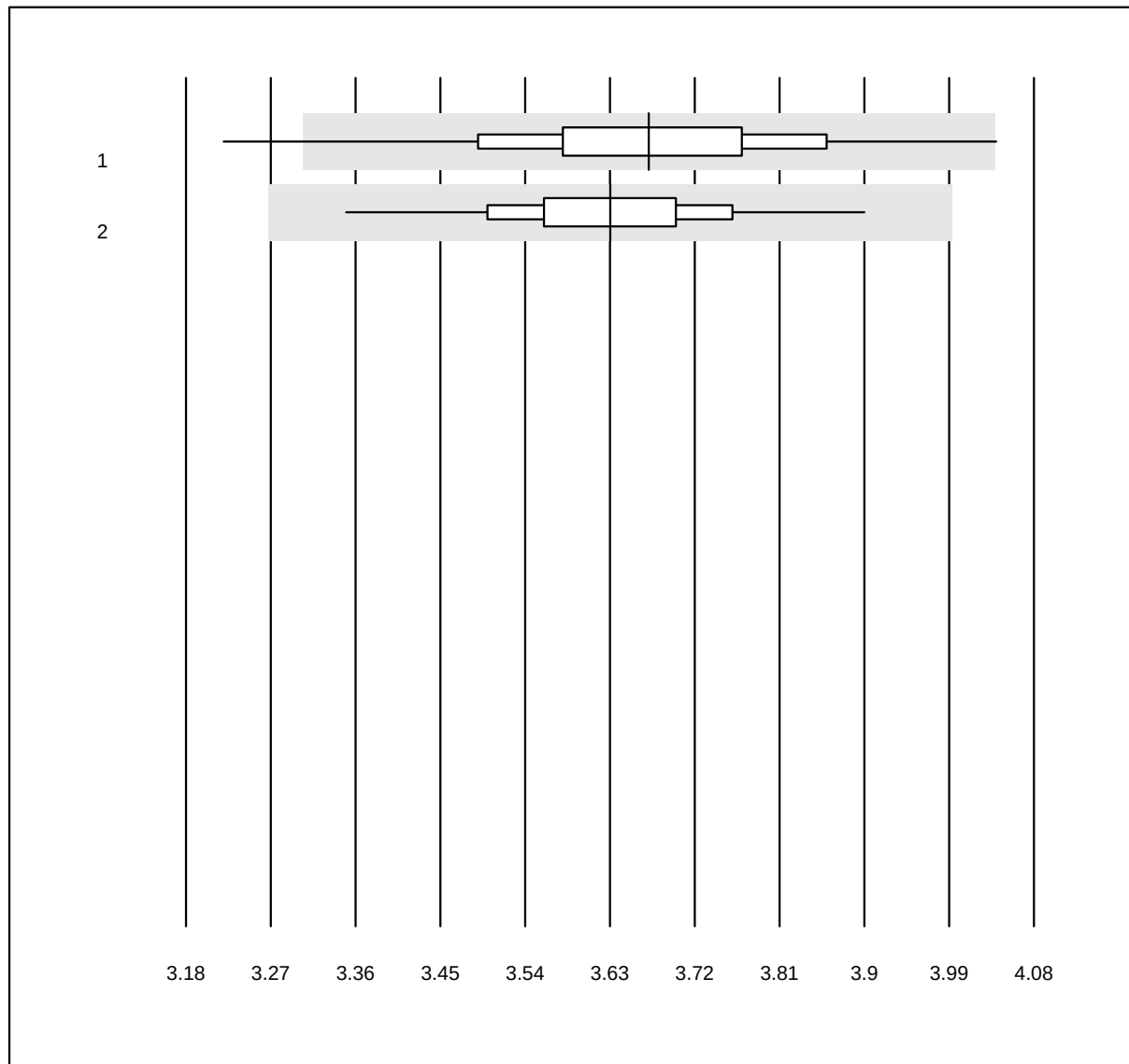


QUALAB Toleranz: 21%

Cholesterol HDL PTS  
(mmol/l)

| No. Methode  | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 CardioChek | 4     | 100.0 | 0.0       | 0.0       | 2.15         | 3.9  | e    |

## Cholesterol total Af/b101

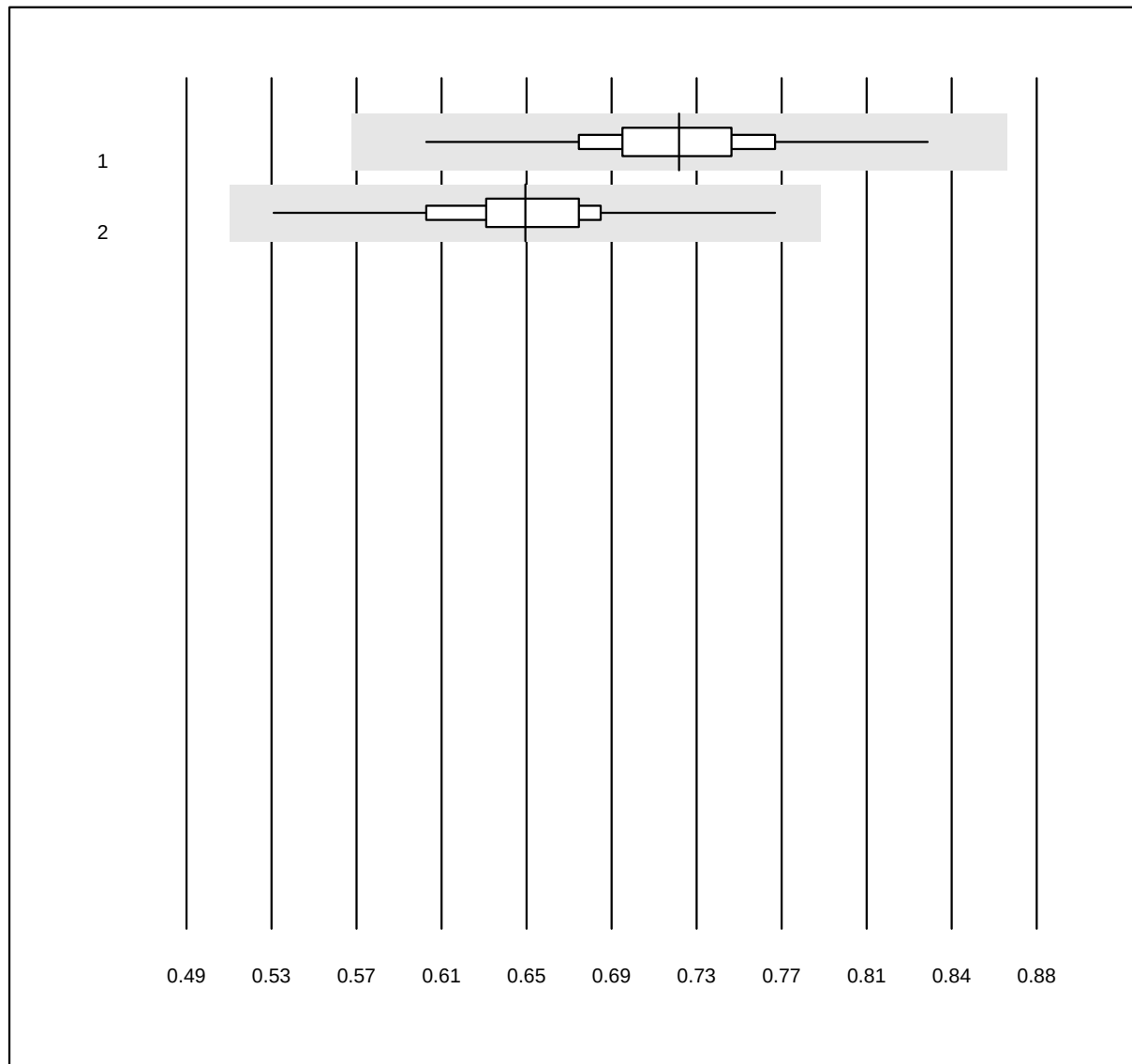


QUALAB Toleranz: 10%

Cholesterol total Af/b101  
(mmol/l)

| No. Methode  | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Afinion    | 467   | 96.4 | 1.1       | 2.6       | 3.67         | 3.9  | e    |
| 2 Cobas b101 | 350   | 97.1 | 0.0       | 2.9       | 3.63         | 2.7  | e    |

## Cholesterol HDL Af/b101

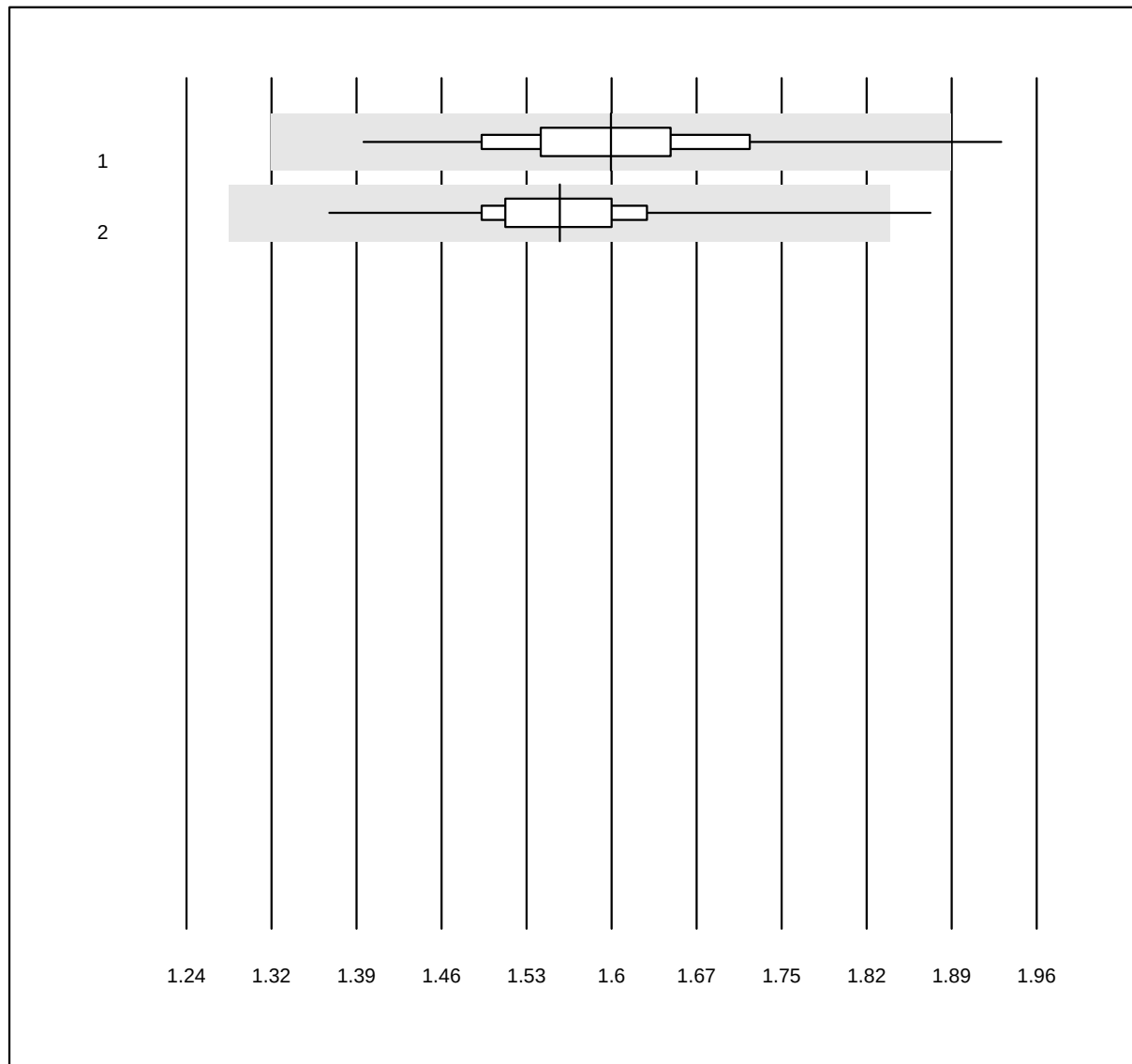


QUALAB Toleranz: 21%

Cholesterol HDL Af/b101  
(mmol/l)

| No. Methode  | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Afinion    | 466   | 91.8 | 0.0       | 8.2       | 0.72         | 5.1  | e    |
| 2 Cobas b101 | 348   | 92.5 | 0.0       | 7.5       | 0.65         | 5.2  | e    |

## Tryglicerides Af/b101

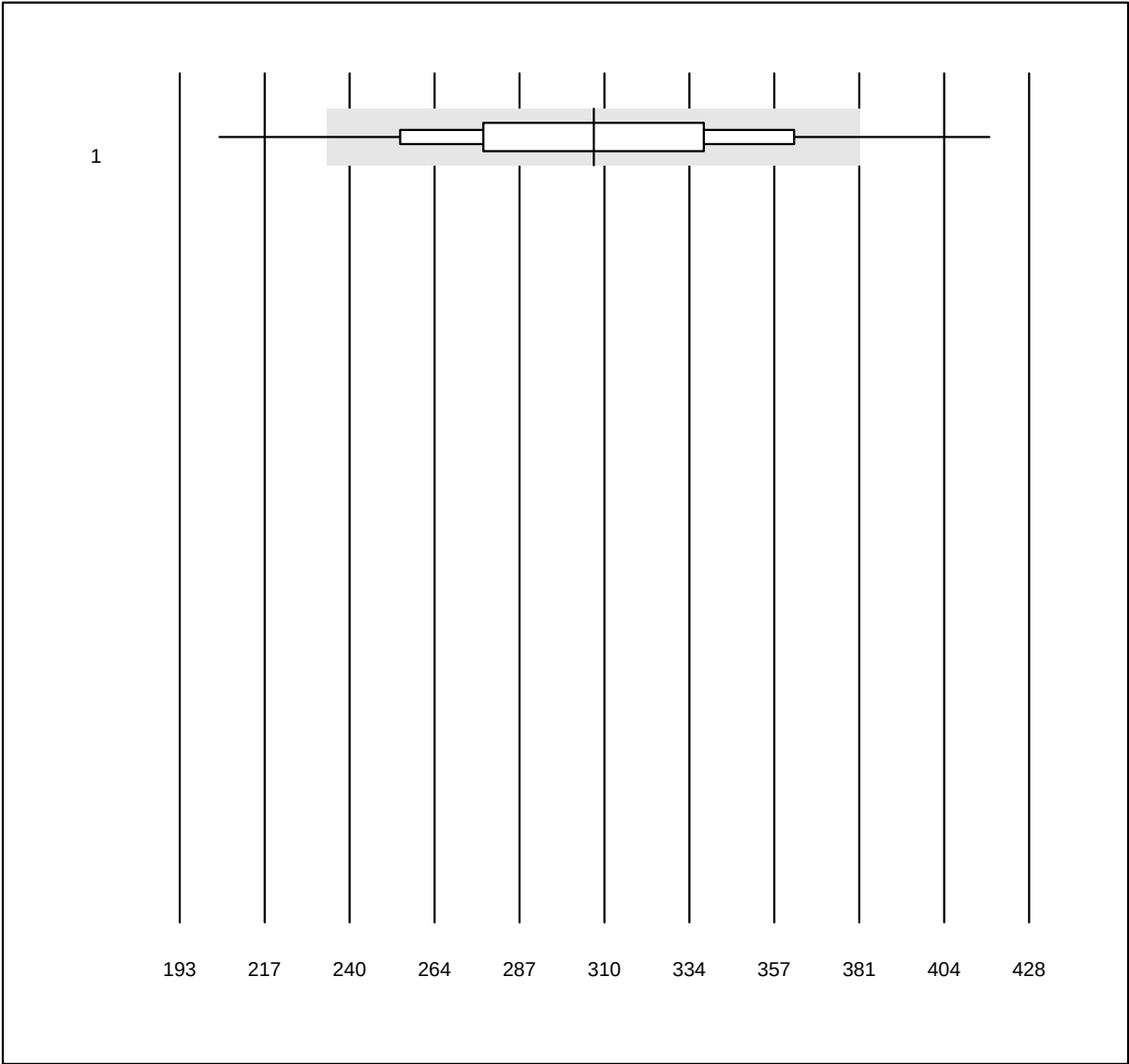


QUALAB Toleranz: 18%

Tryglicerides Af/b101  
(mmol/l)

| No. Methode  | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|--------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Afinion    | 467   | 98.5 | 0.4       | 1.1       | 1.60         | 5.7  | e    |
| 2 Cobas b101 | 349   | 99.4 | 0.3       | 0.3       | 1.56         | 4.0  | e    |

Troponin I AFIAS



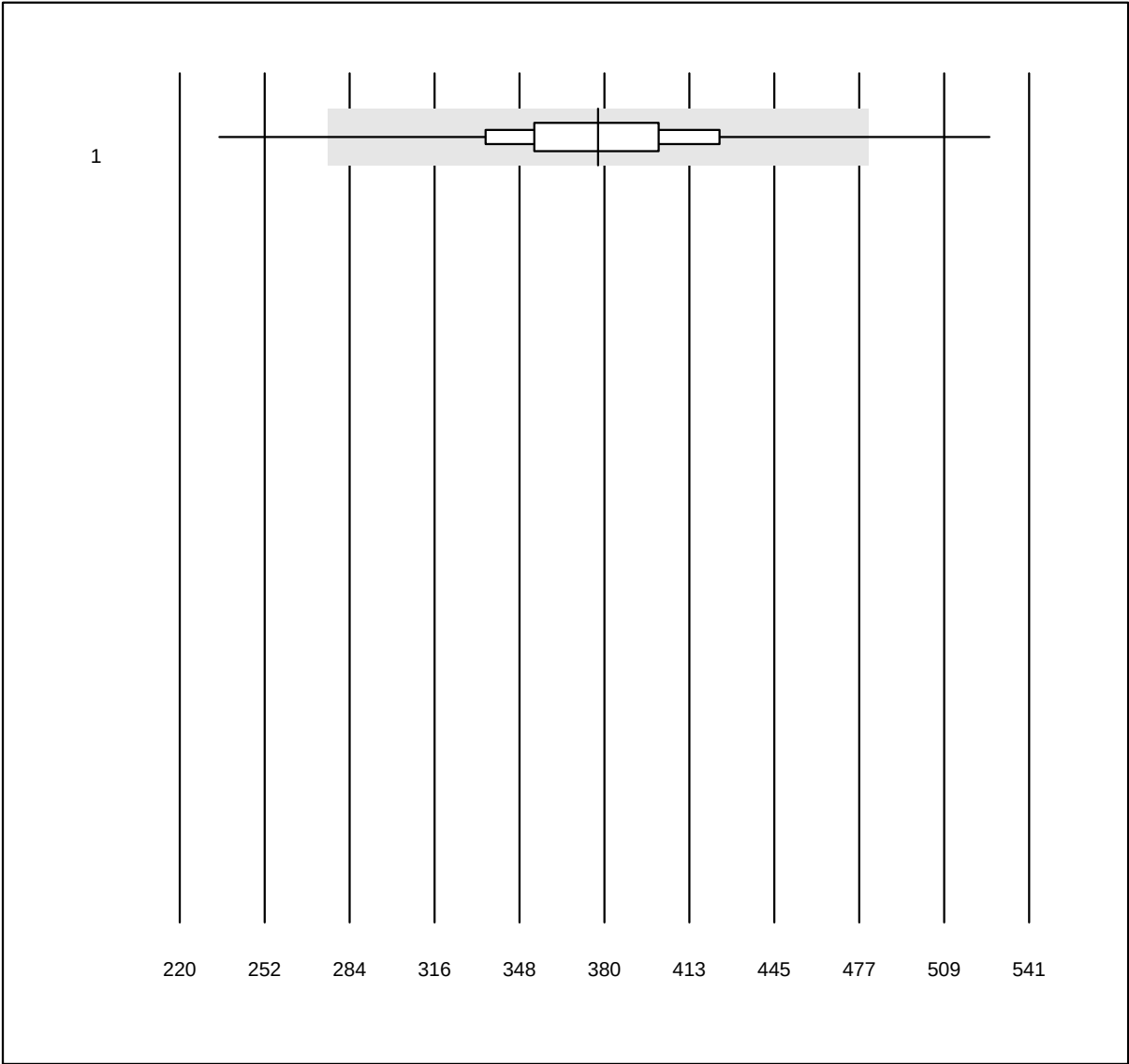
QUALAB Toleranz: 24%

Troponin I AFIAS (ng/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | AFIAS | 662   | 85.6 | 7.9       | 6.5       | 307.57       | 13.9 | e    |



NT-proBNP AFIAS

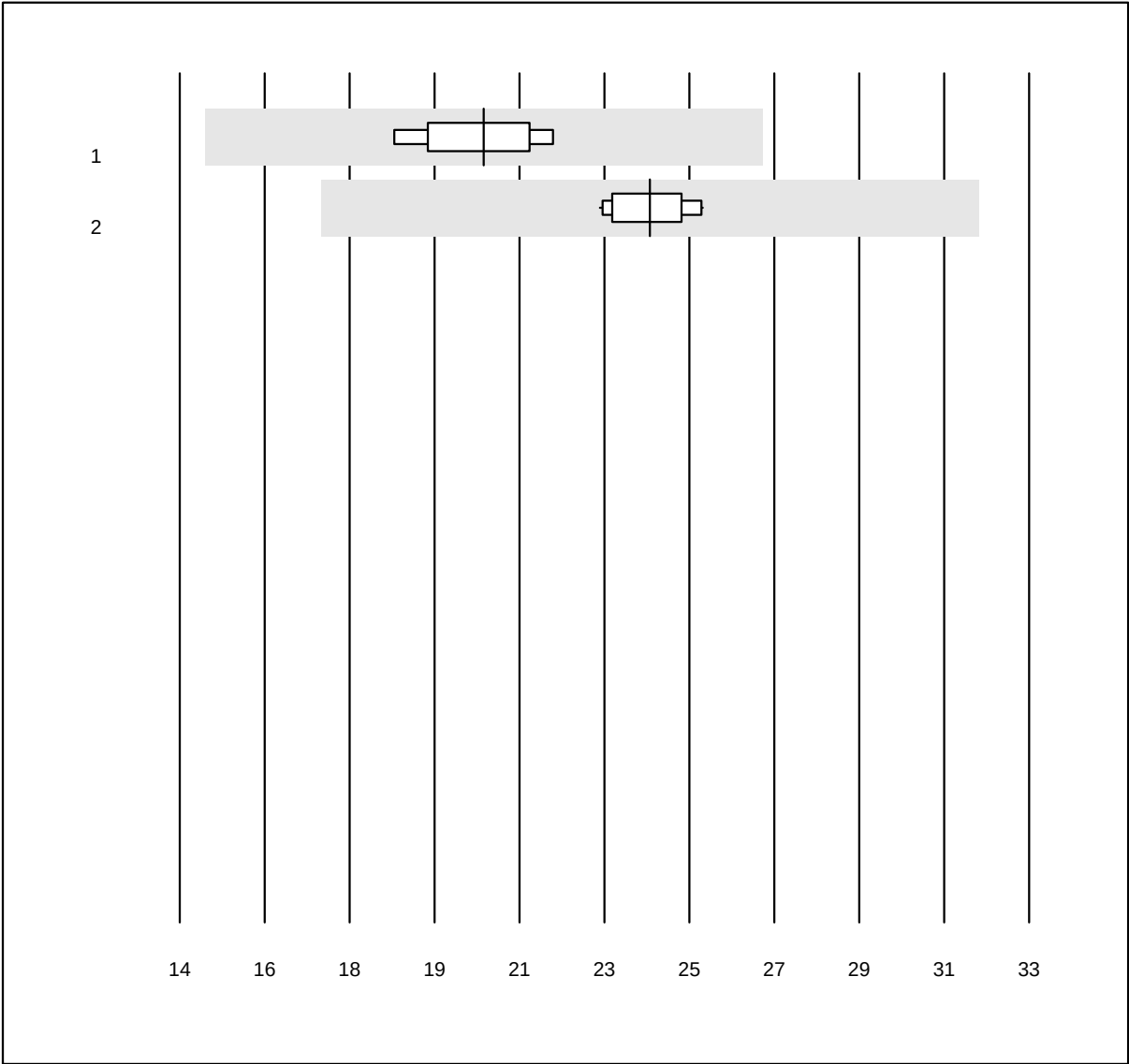


QUALAB Toleranz: 27%

NT-proBNP AFIAS (ng/l)

| No. Methode |       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|------|-----------|-----------|--------------|------|------|
| 1           | AFIAS | 502   | 95.2 | 3.4       | 1.4       | 378.1        | 10.7 | e    |

Homocystein

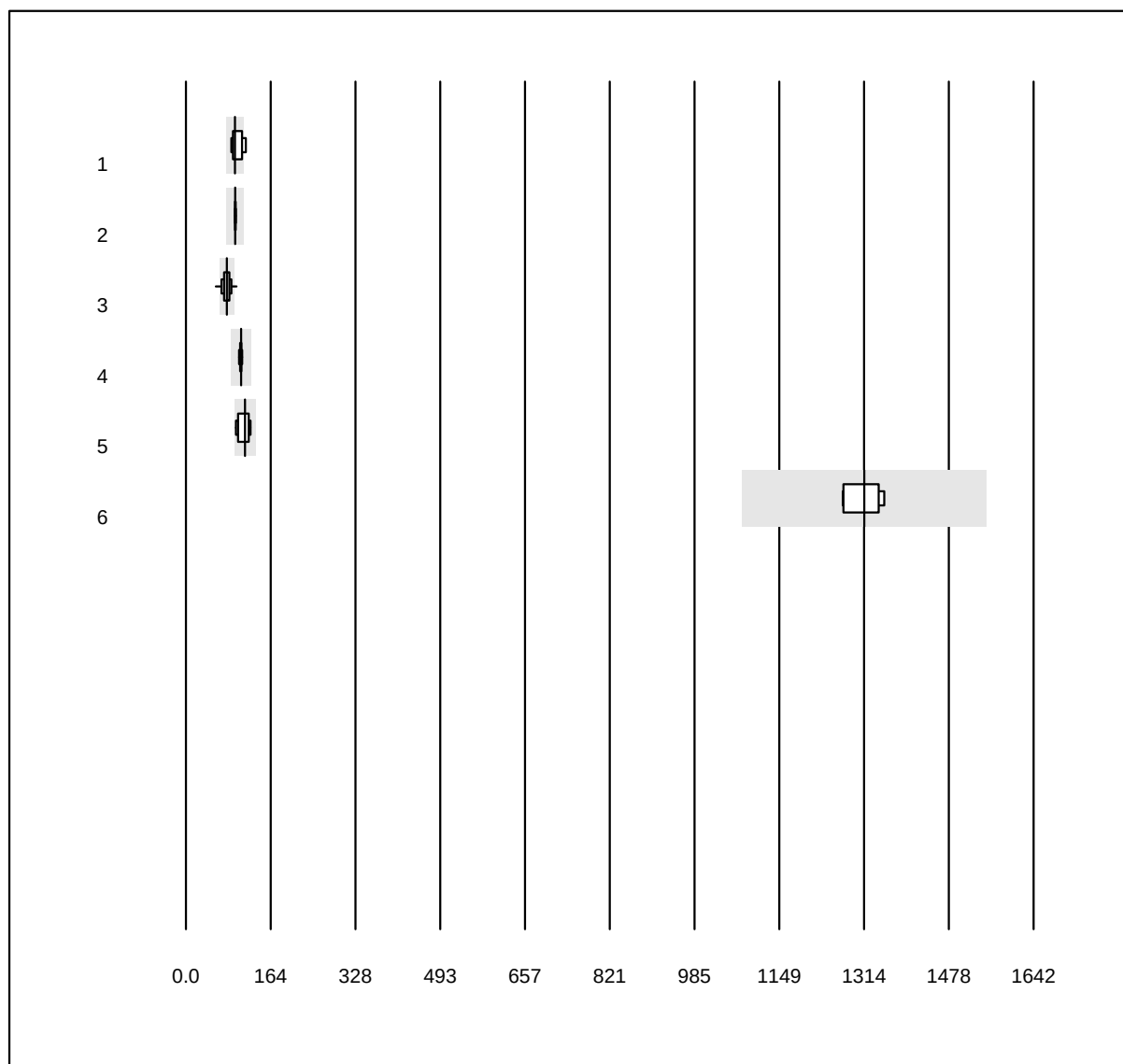


MQ Toleranz: 30%

Homocystein (µmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 4     | 100.0 | 0.0       | 0.0       | 20.8         | 5.7  | e    |
| 2 Roche     | 12    | 100.0 | 0.0       | 0.0       | 24.5         | 3.2  | e    |

## Lipase



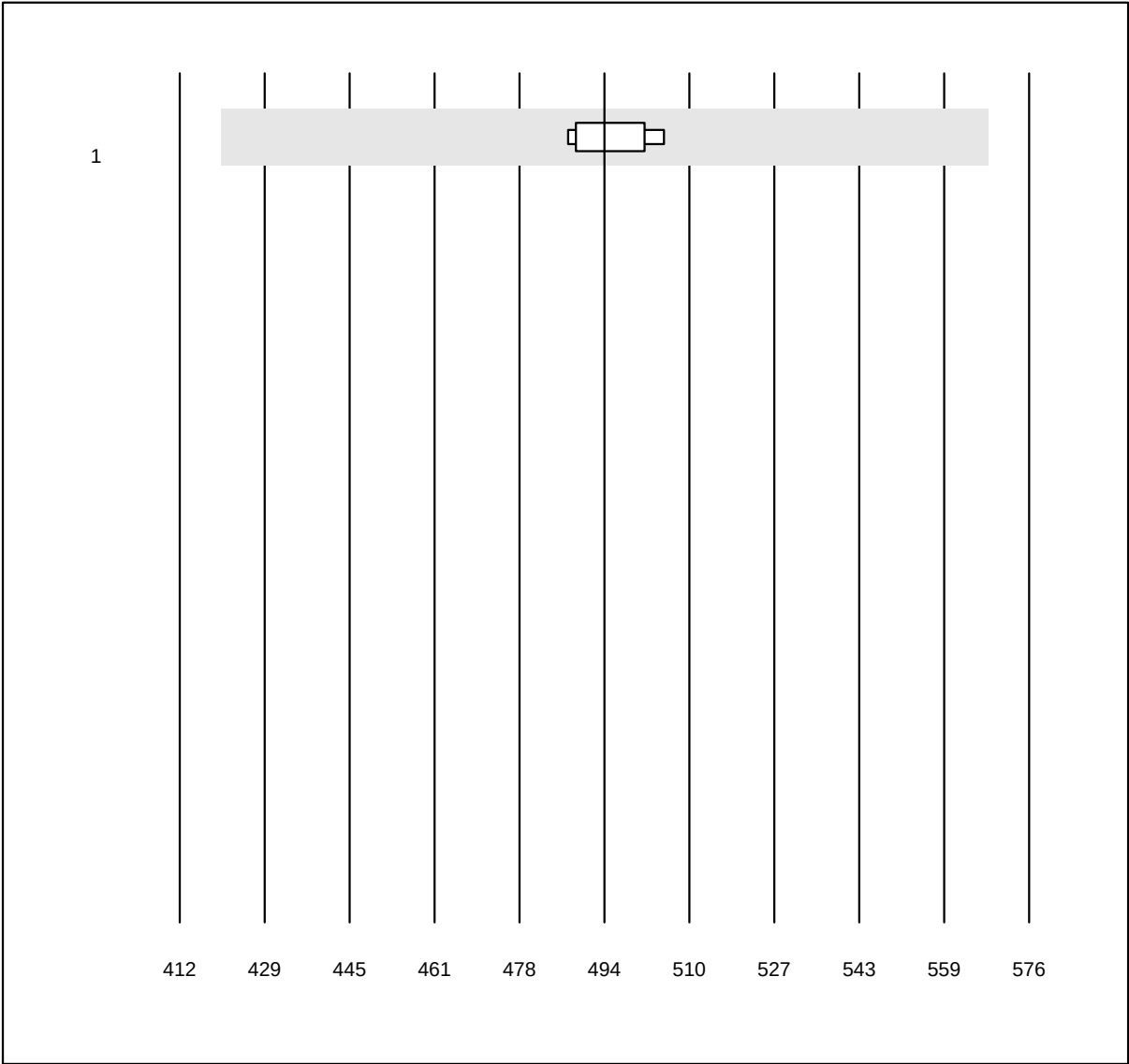
QUALAB Toleranz: 18%

Lipase (U/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott        | 6     | 83.3  | 16.7      | 0.0       | 95.0         | 9.9  | e*   |
| 2 Beckman       | 4     | 100.0 | 0.0       | 0.0       | 95.5         | 0.8  | e    |
| 3 Fuji Dri-Chem | 169   | 88.8  | 7.1       | 4.1       | 79.3         | 9.5  | e    |
| 4 Roche         | 9     | 100.0 | 0.0       | 0.0       | 107.0        | 1.8  | e    |
| 5 Siemens       | 8     | 100.0 | 0.0       | 0.0       | 114.5        | 9.3  | e*   |
| 6 Vitros        | 5     | 100.0 | 0.0       | 0.0       | 1314.1       | 2.7  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

Fructosamine

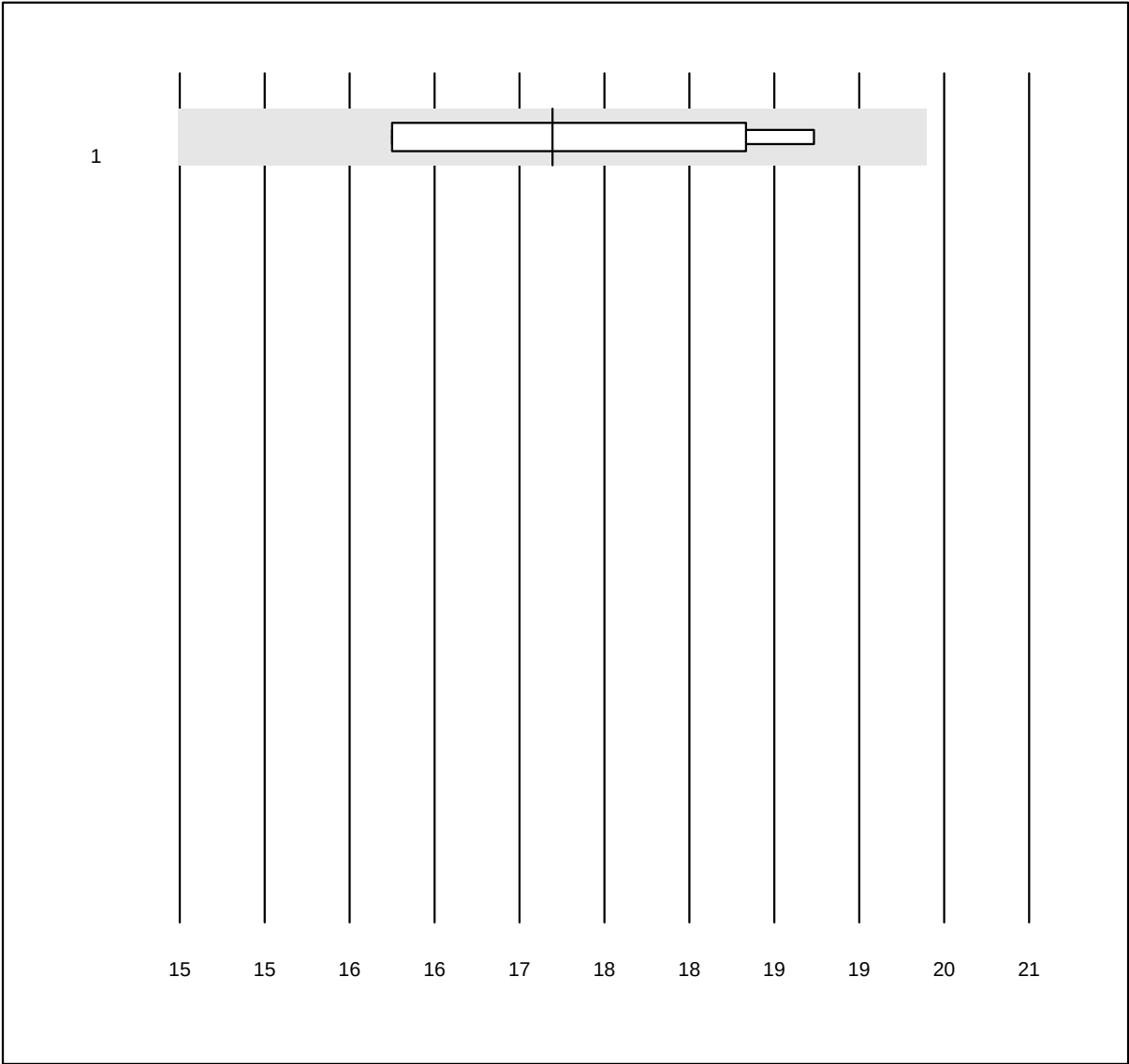


MQ Toleranz: 15%

Fructosamine (µmol/l)

| No. Methode                                                                                                           |              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | nasschemisch | 4     | 100.0 | 0.0       | 0.0       | 494          | 1.4  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |              |       |       |           |           |              |      |      |

Bicarbonat



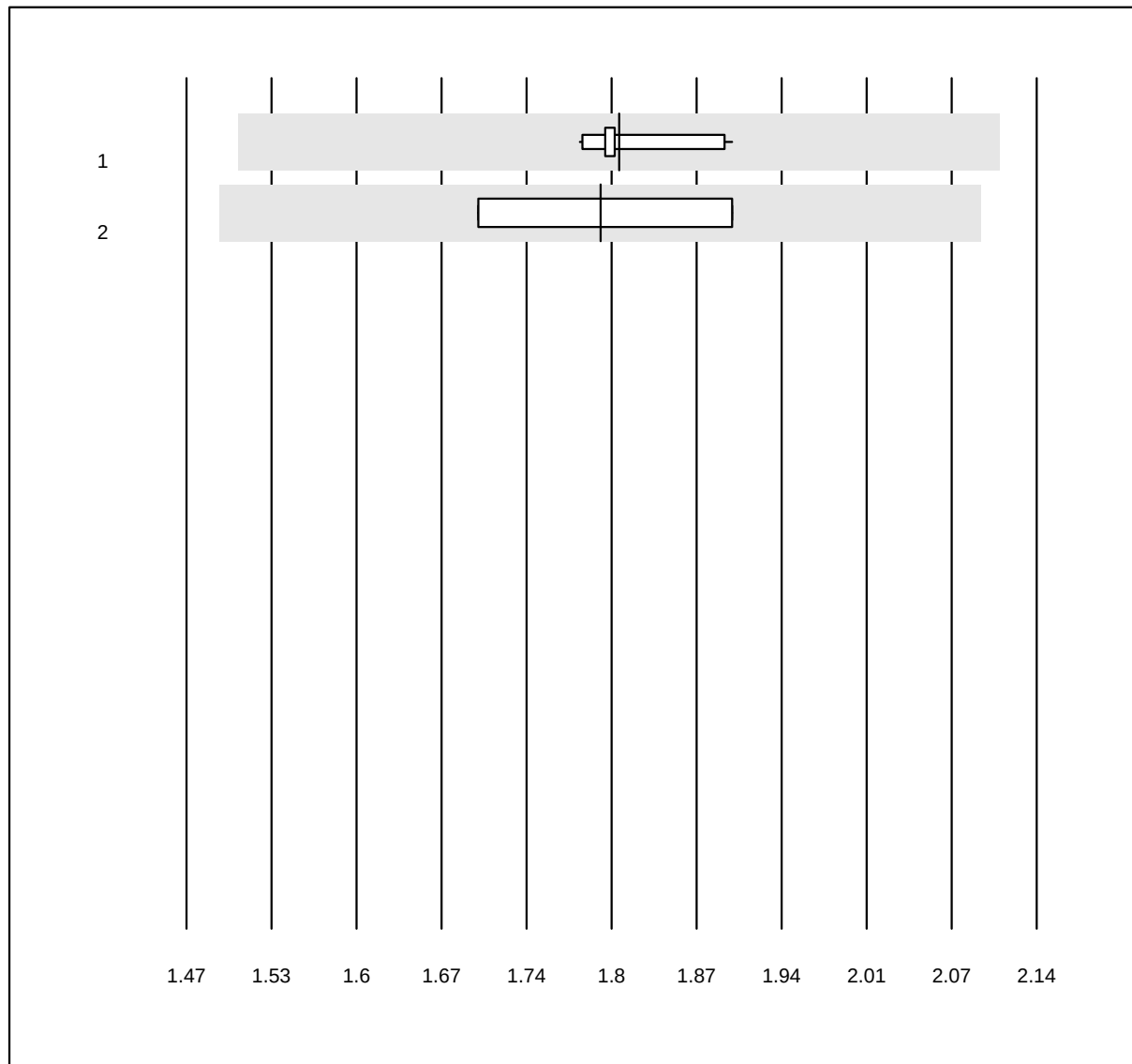
MQ Toleranz: 15%

Bicarbonat (mmol/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 7     | 100.0 | 0.0       | 0.0       | 17.6         | 6.8  | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Glucose CSF

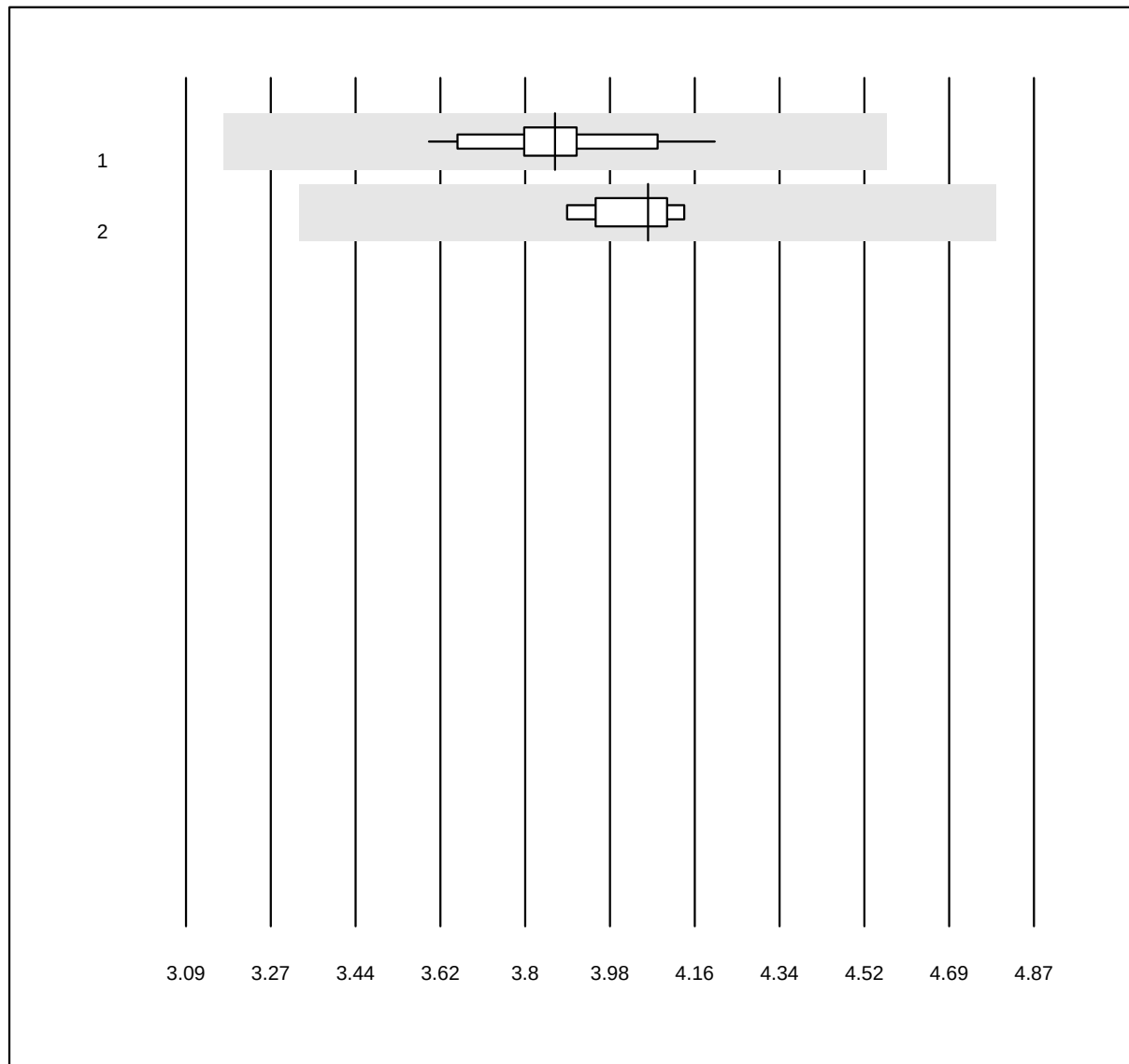


QUALAB Toleranz: 9%  
( < 3.3: +/- 0.3 mmol/l)

Glucose CSF (mmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 20    | 100.0 | 0.0       | 0.0       | 1.81         | 1.8  | e    |
| 2 andere Methoden | 11    | 100.0 | 0.0       | 0.0       | 1.80         | 4.4  | e    |

## Lactate CSF



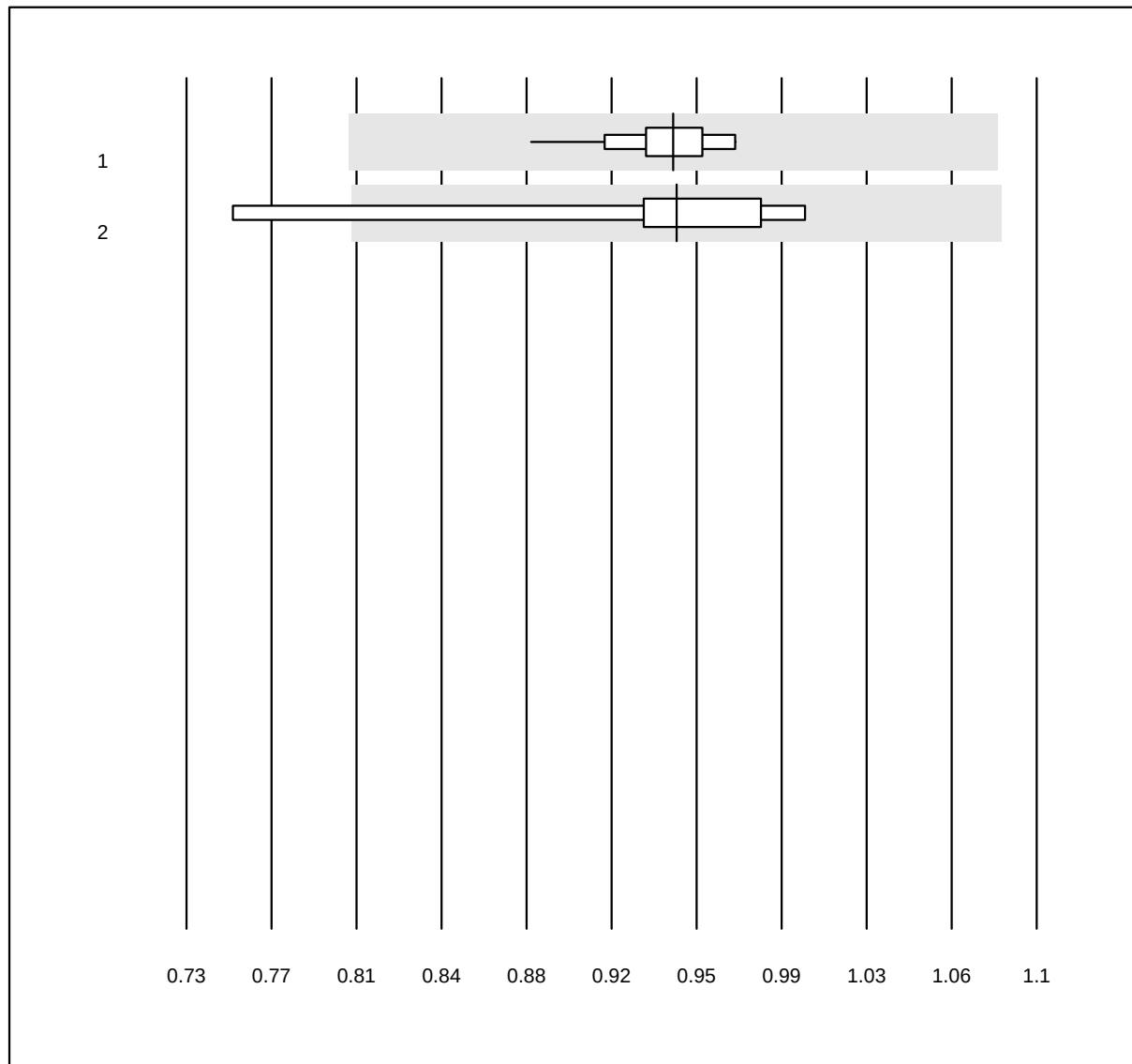
QUALAB Toleranz: 18%

Lactate CSF (mmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Roche           | 15    | 100.0 | 0.0       | 0.0       | 3.86         | 3.5  | e    |
| 2 andere Methoden | 7     | 100.0 | 0.0       | 0.0       | 4.06         | 2.2  | e    |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

## Protein CSF



QUALAB Toleranz: 15%

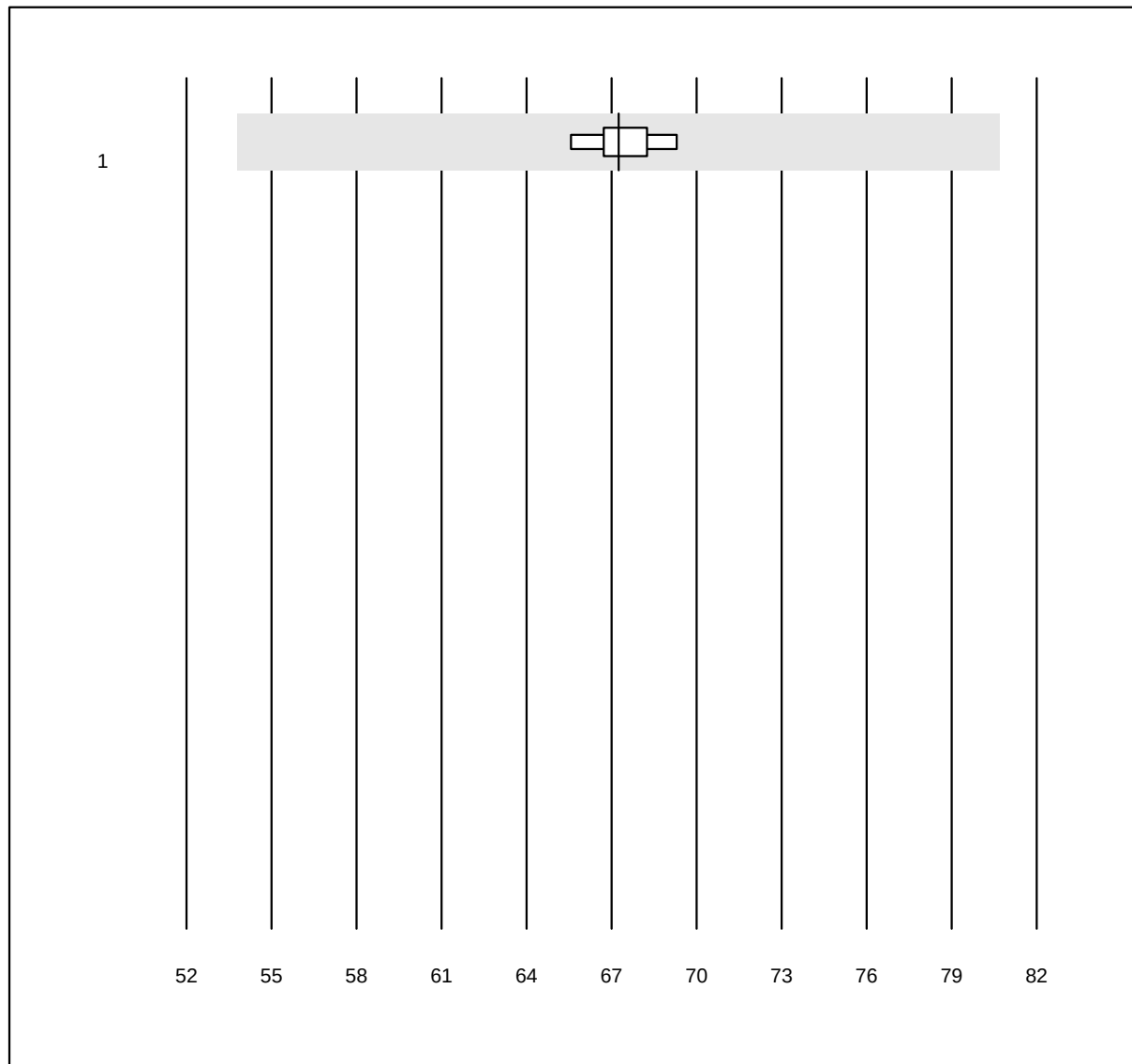
Protein CSF (g/l)

| No. Methode       | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Roche           | 22    | 95.5 | 0.0       | 4.5       | 0.94         | 2.3  | e    |
| 2 andere Methoden | 7     | 85.7 | 14.3      | 0.0       | 0.94         | 7.7  | e*   |

1 additional results were submitted but not published because the method groups were too small. (< results per group)



## LDH CSF



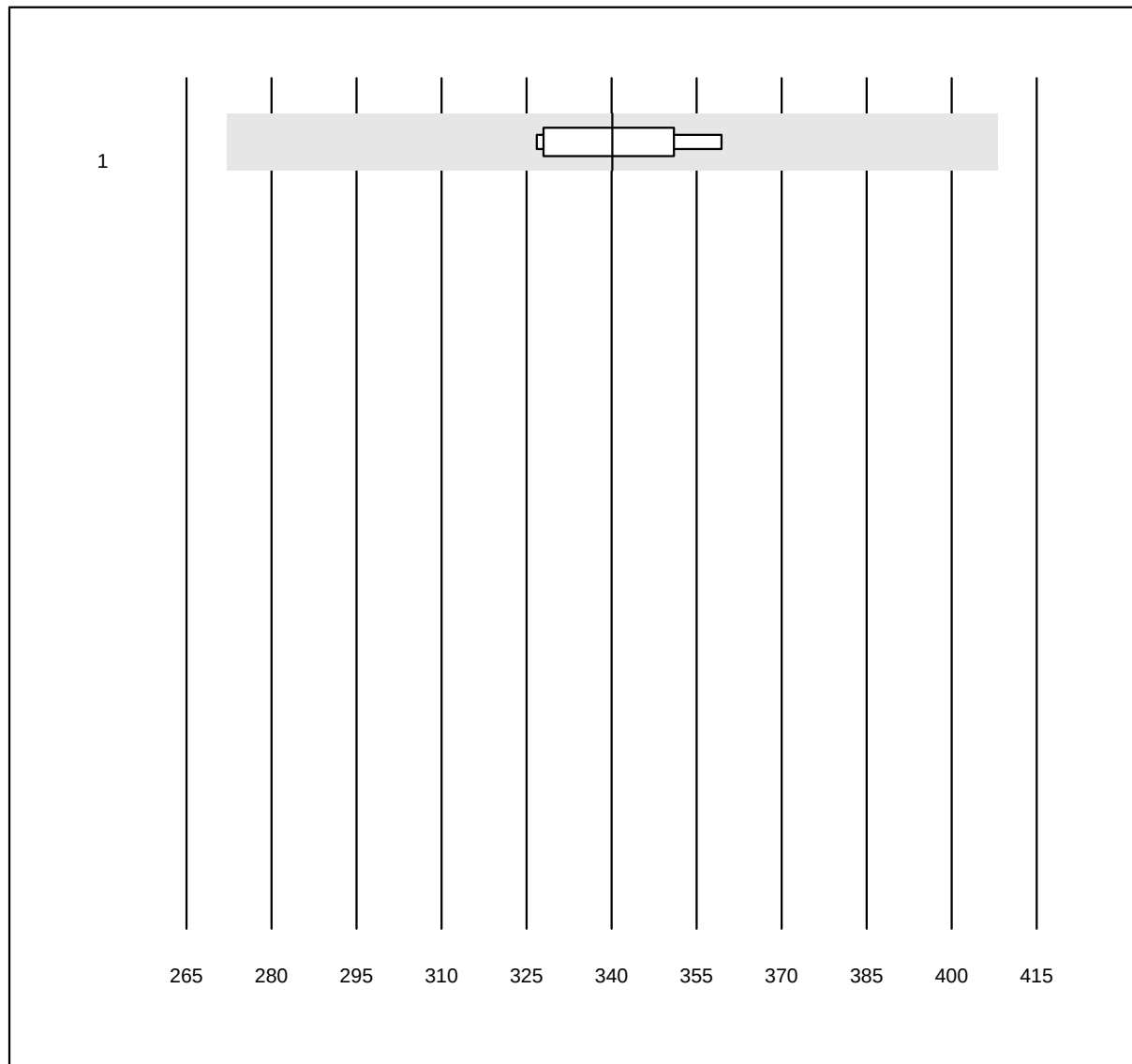
MQ Toleranz: 20%

LDH CSF (U/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 6     | 100.0 | 0.0       | 0.0       | 67           | 1.6  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Albumine CSF



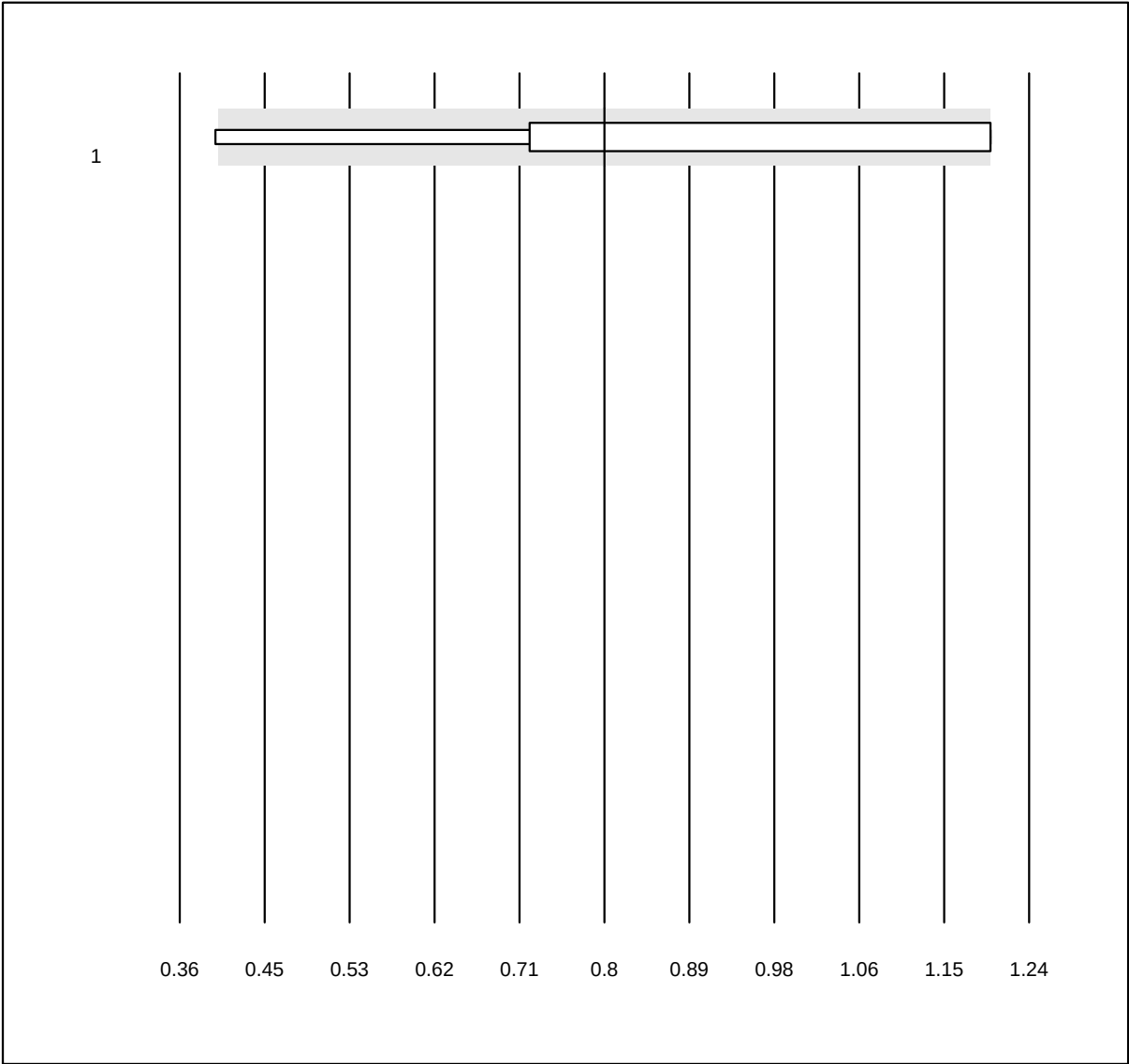
MQ Toleranz: 20%

Albumine CSF (mg/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Roche   | 7     | 100.0 | 0.0       | 0.0       | 340.13       | 3.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

CDT

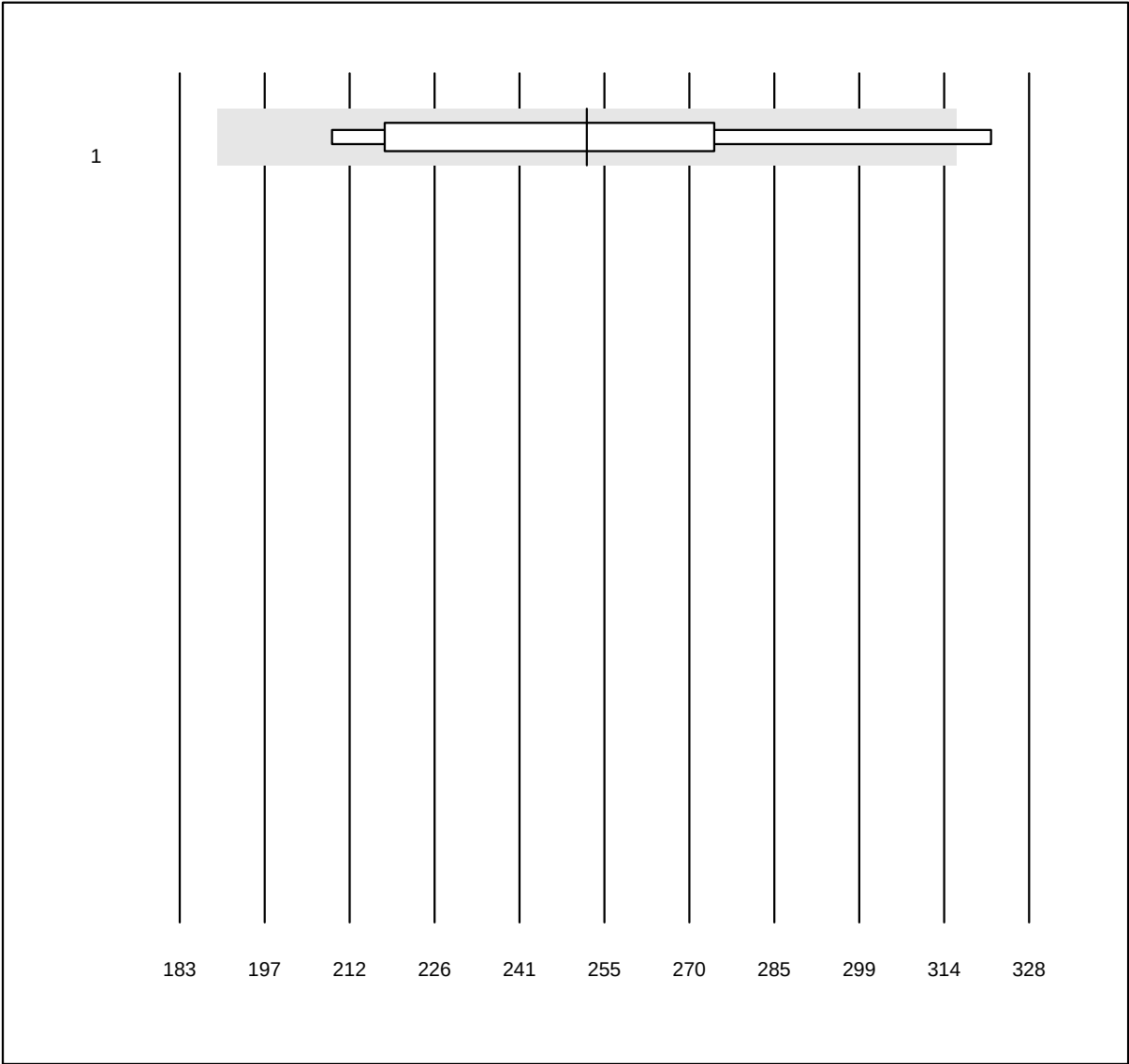


MQ Toleranz: 20%  
( < 0.9: +/- 0.4 %)

CDT (%)

| No. Methode                                                                                                           |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 0.80         | 29.2 | a*   |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                 |       |       |           |           |              |      |      |

Cyclosporine

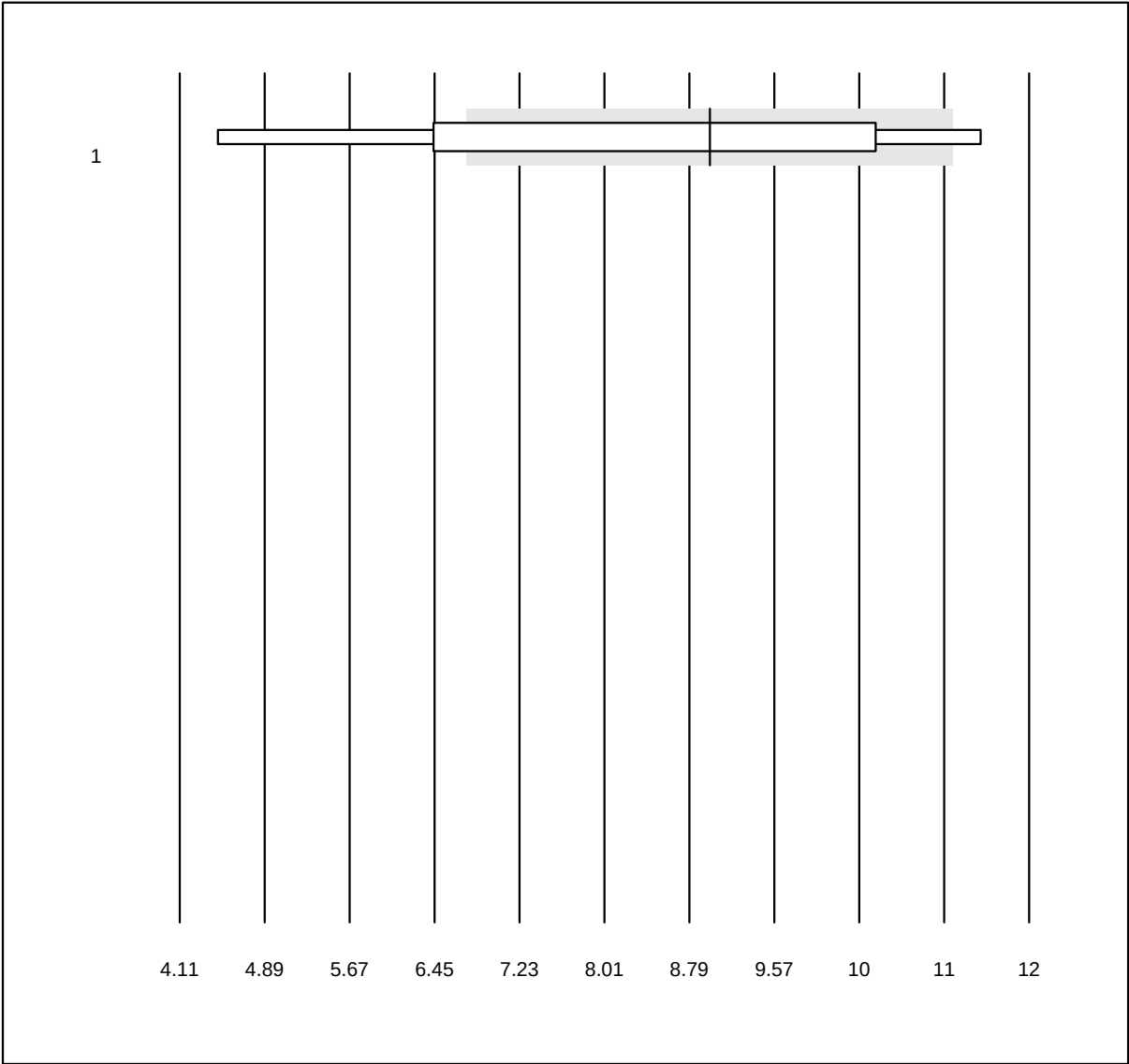


MQ Toleranz: 25%

Cyclosporine (µg/l)

| No. Methode                                                                                                           |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1                                                                                                                     | andere Methoden | 4     | 100.0 | 0.0       | 0.0       | 252.5        | 14.2 | a*   |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |                 |       |       |           |           |              |      |      |

Sirolimus

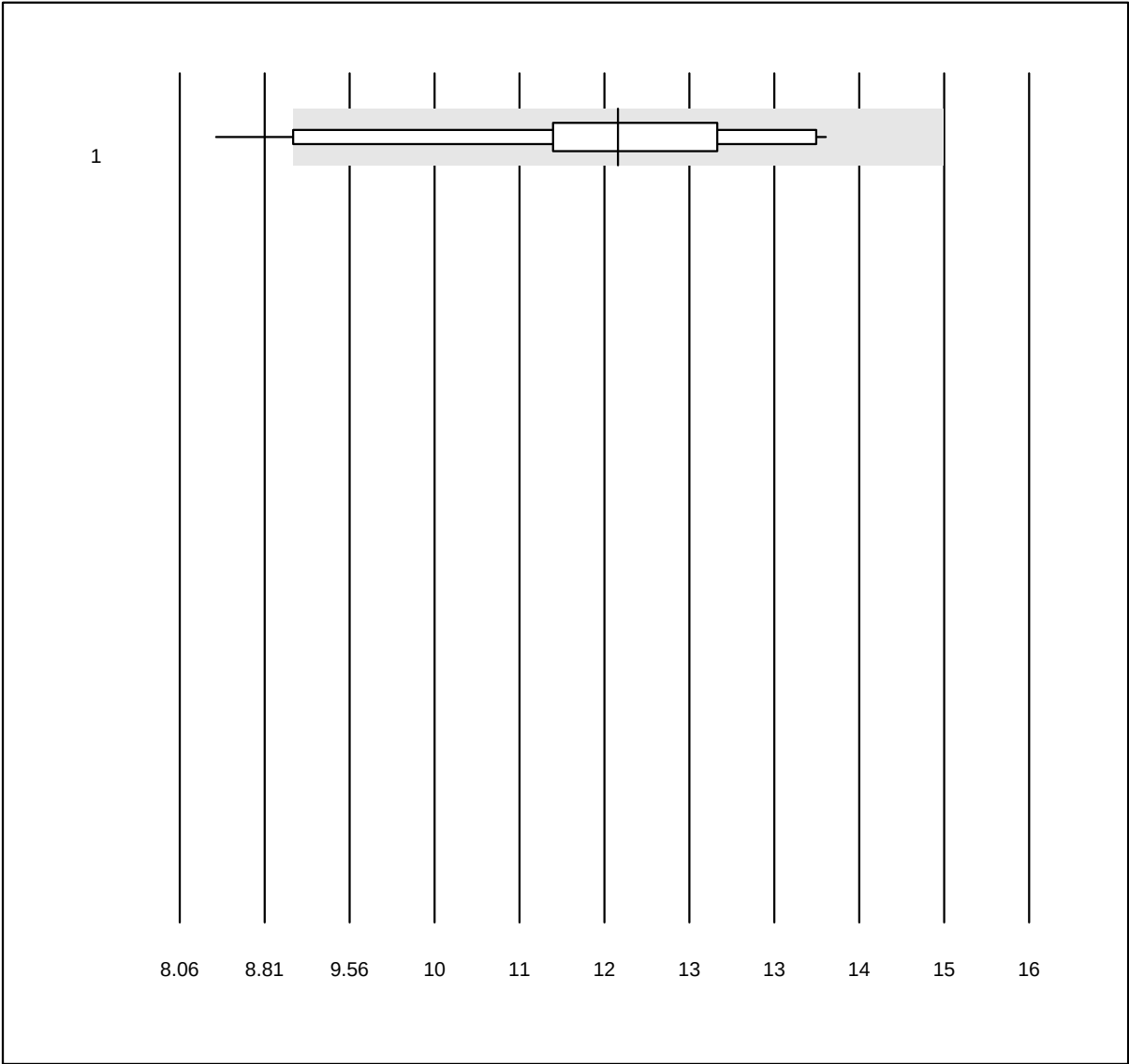


MQ Toleranz: 25%

Sirolimus (µg/l)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 4     | 75.0 | 25.0      | 0.0       | 9.0          | 25.0 | e*   |

Tacrolimus

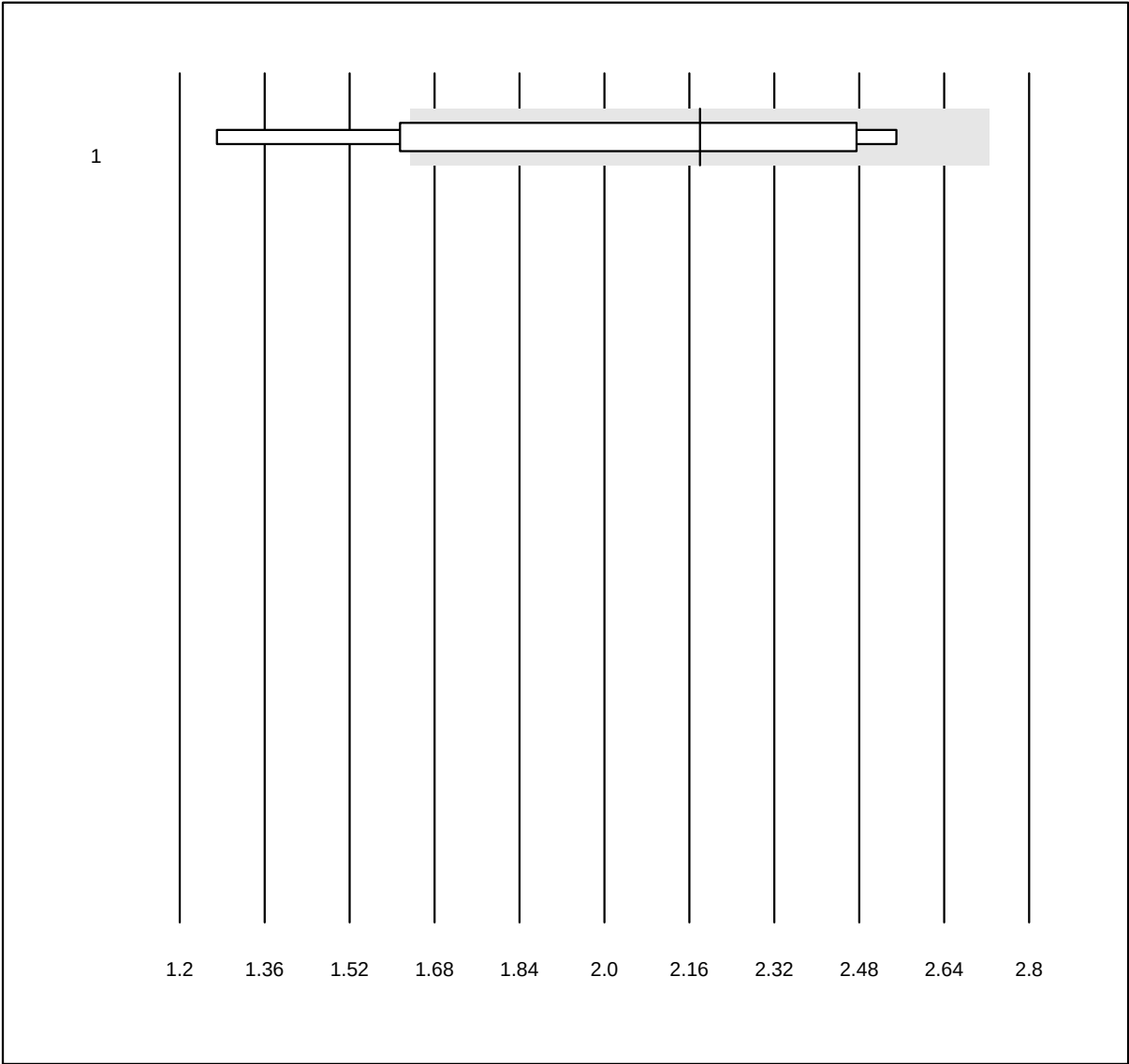


MQ Toleranz: 25%

Tacrolimus (µg/l)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 12    | 91.7 | 8.3       | 0.0       | 12.2         | 12.4 | e*   |

Everolimus

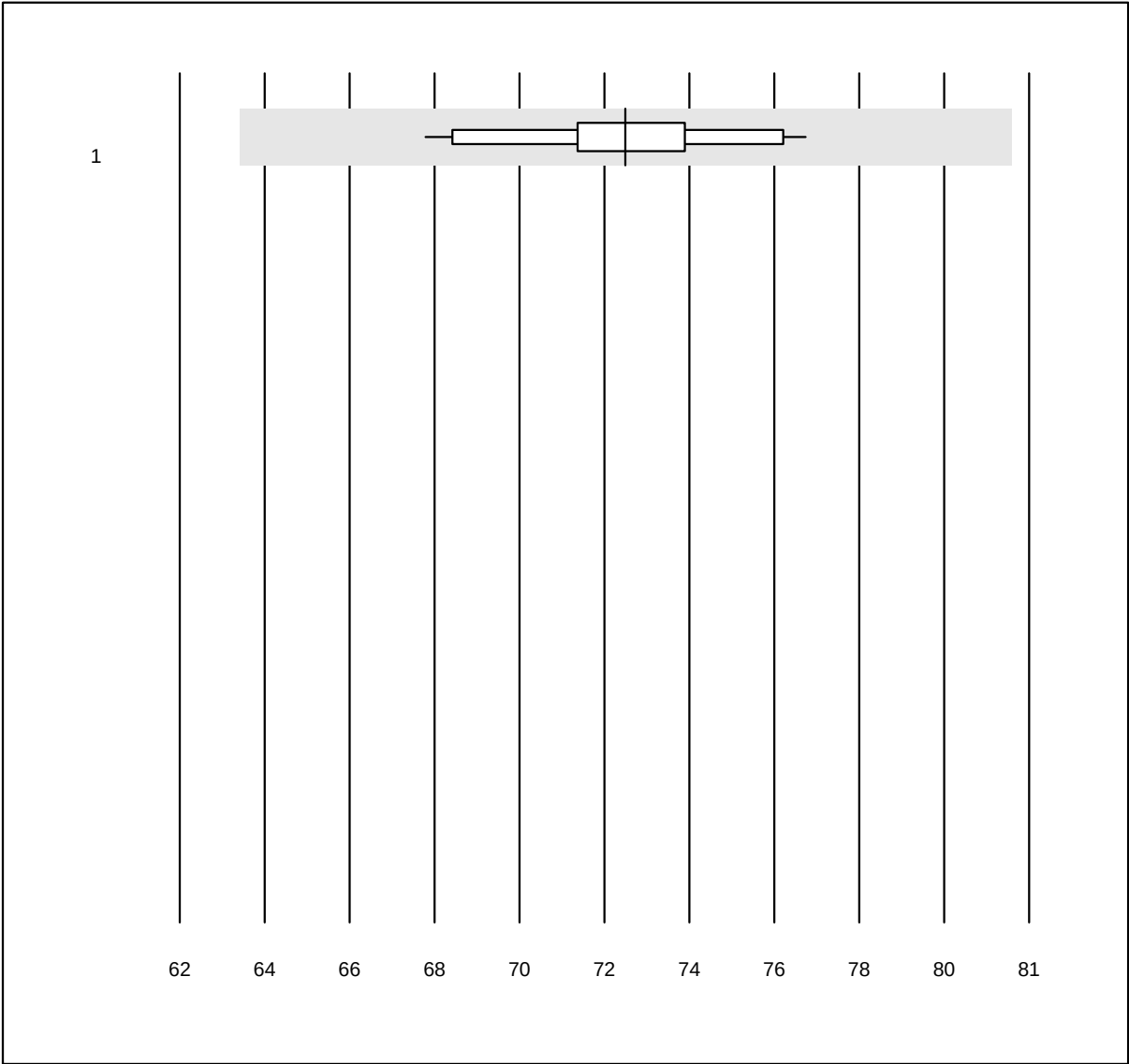


MQ Toleranz: 25%

Everolimus (µg/l)

| No. Methode |               | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 4     | 75.0 | 25.0      | 0.0       | 2.2          | 21.9 | e*   |

Totalprotein E

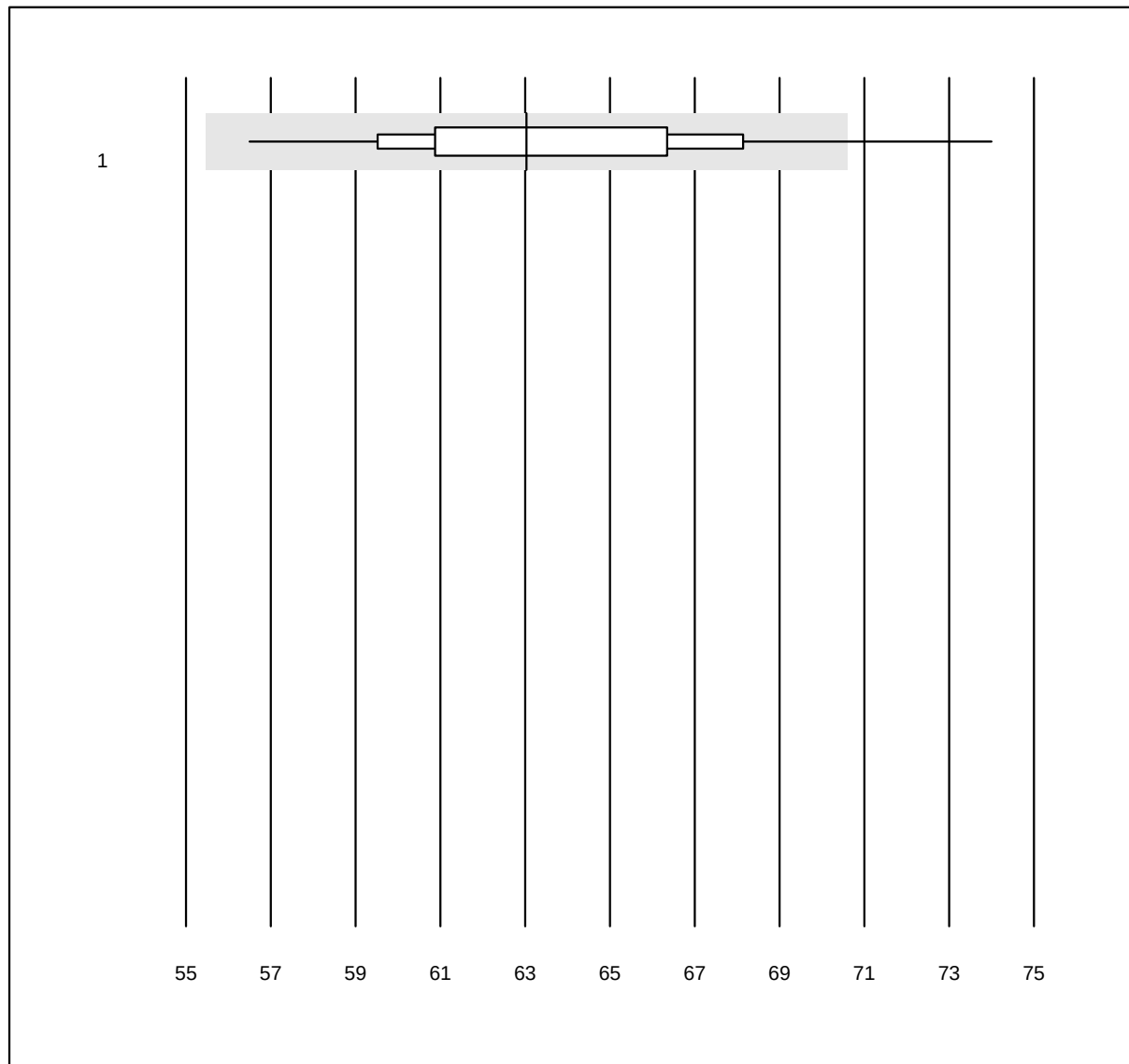


MQ Toleranz: 12%

Totalprotein E (g/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 19    | 100.0 | 0.0       | 0.0       | 72.0         | 3.3  | e    |

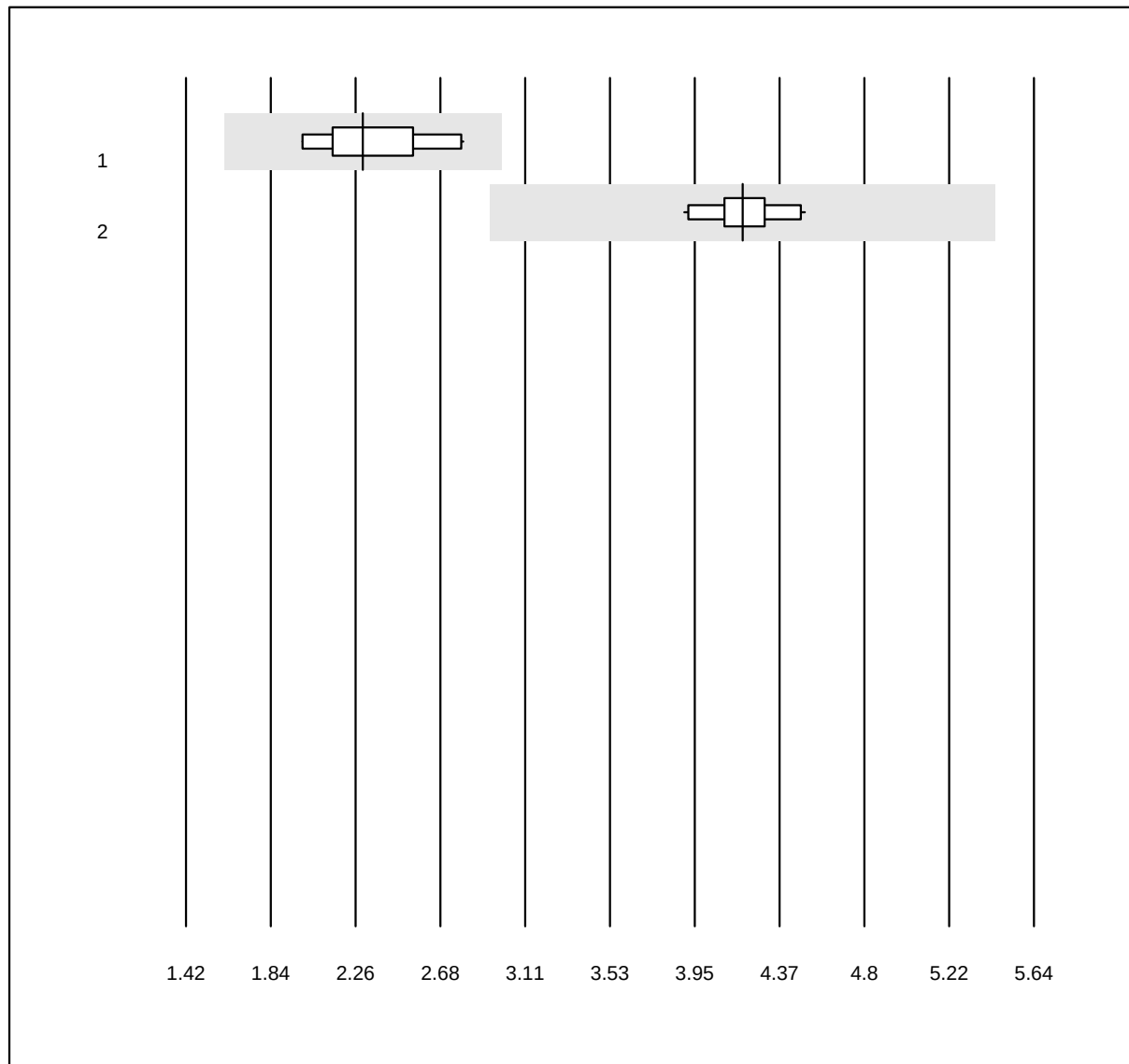


**Albumin E**

MQ Toleranz: 12%

Albumin E (%)

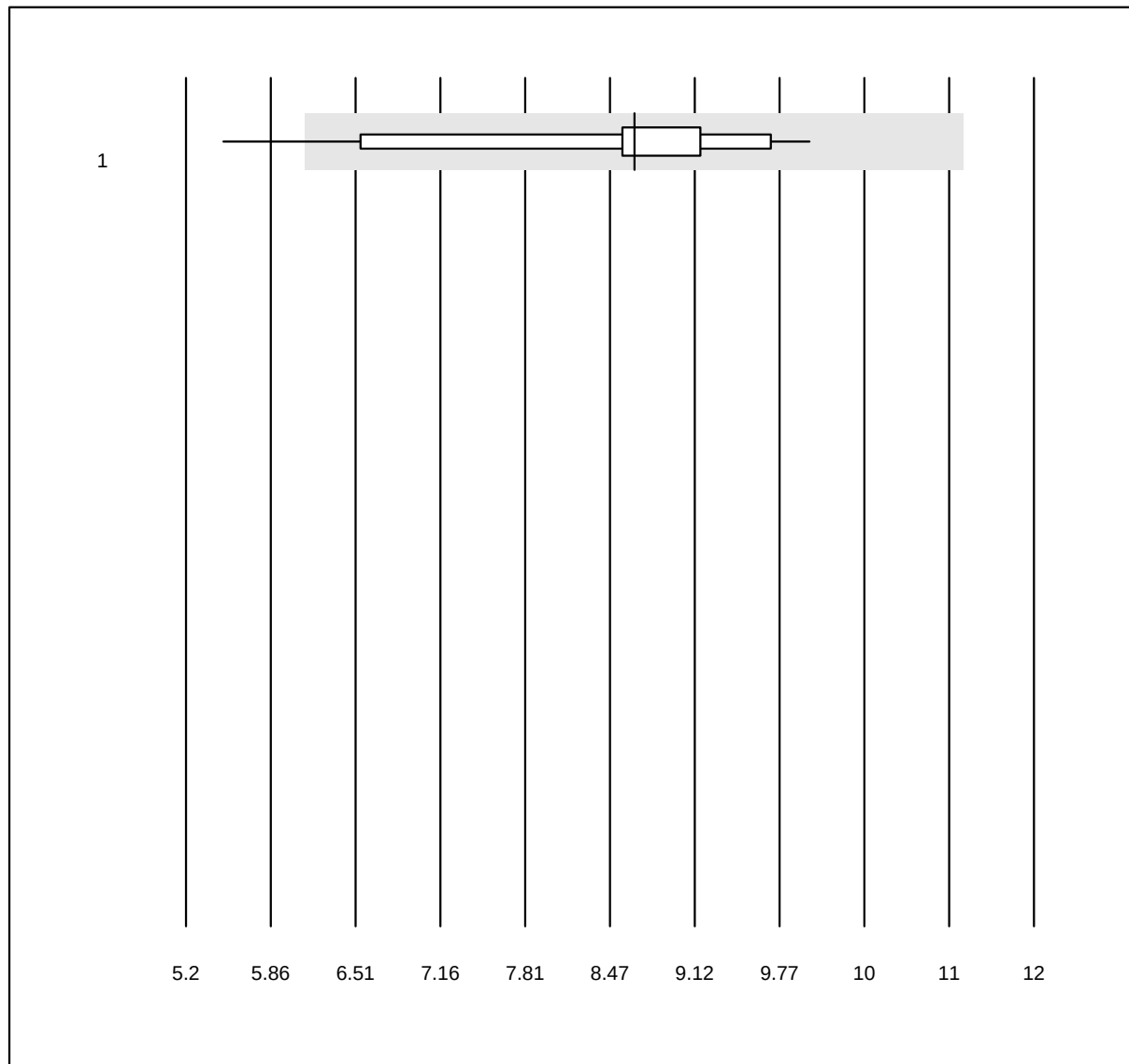
| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 32    | 96.9 | 3.1       | 0.0       | 63.0         | 5.9  | e    |

**alpha-1-Globuline**

MQ Toleranz: 30%

alpha-1-Globuline (%)

| No. | Methode                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|-------------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Elektrophorese          | 10    | 100.0 | 0.0       | 0.0       | 2.3          | 11.5 | e*   |
| 2   | Kapillar-Elektrophorese | 22    | 95.5  | 0.0       | 4.5       | 4.2          | 4.1  | e    |

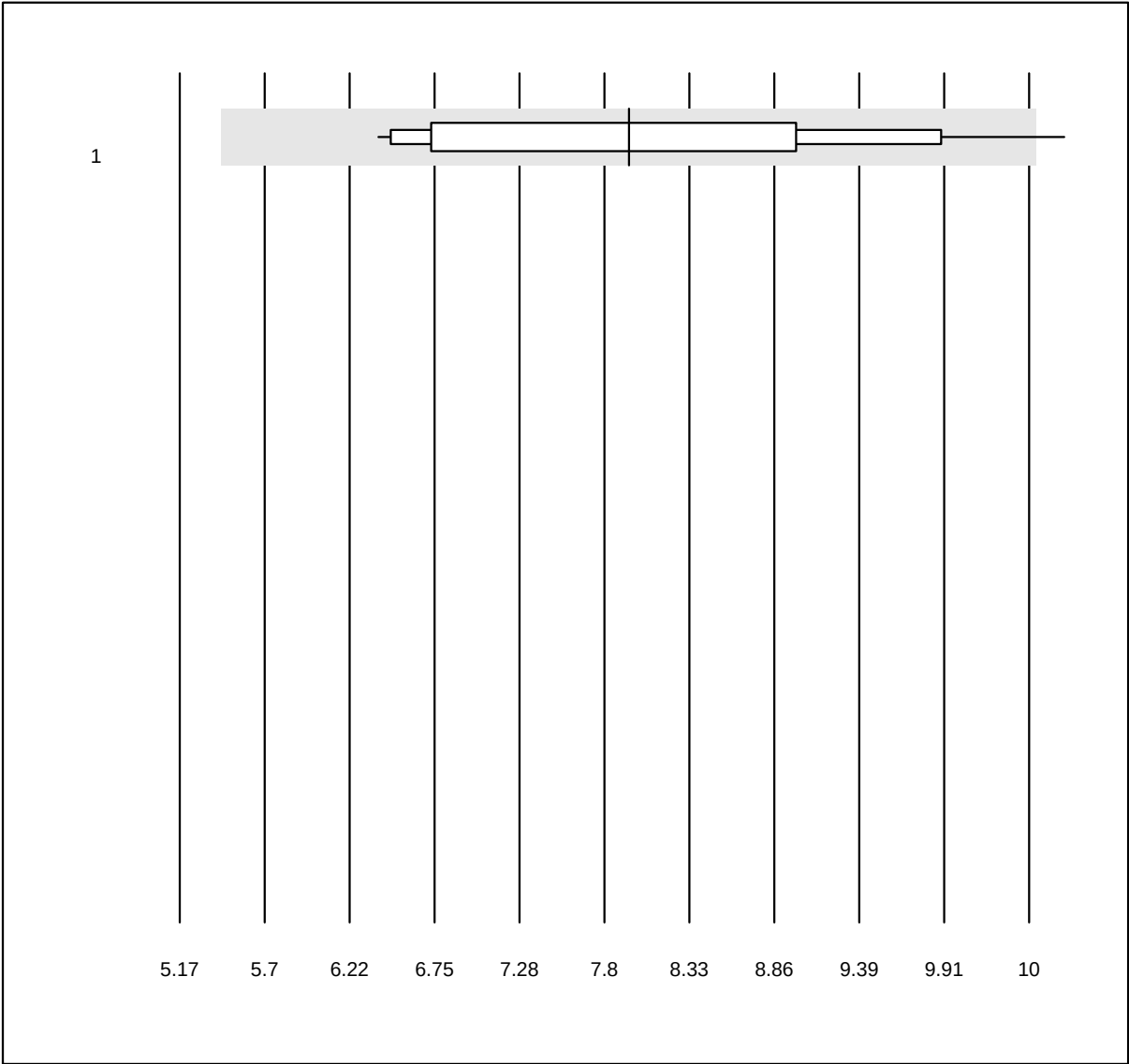
**alpha-2-Globuline**

MQ Toleranz: 30%

alpha-2-Globuline (%)

| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 32    | 87.5 | 6.2       | 6.2       | 8.8          | 12.4 | e    |

beta-Globuline

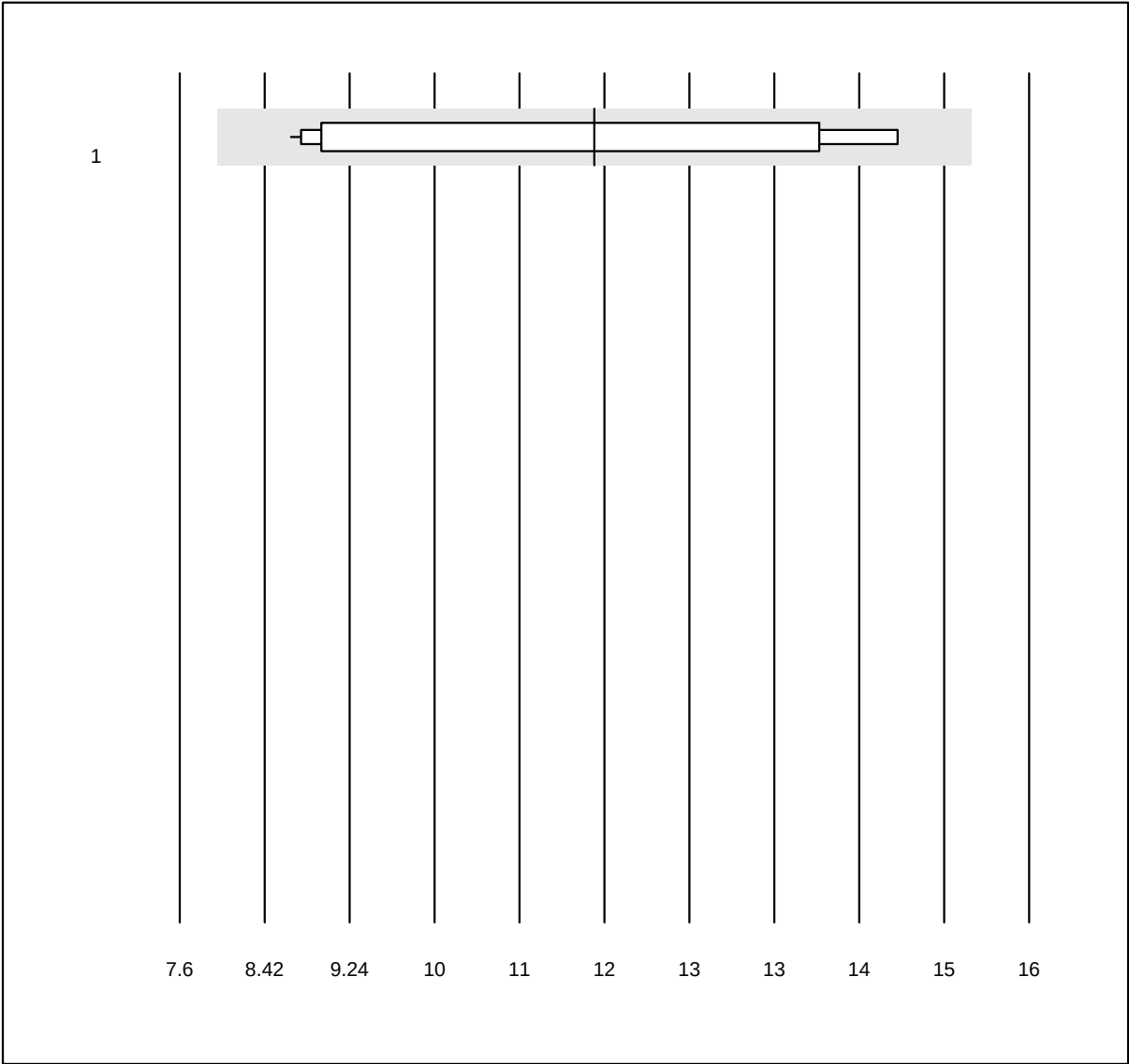


MQ Toleranz: 30%

beta-Globuline (%)

| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 16    | 93.8 | 6.2       | 0.0       | 7.7          | 15.6 | e*   |

gamma-Globuline

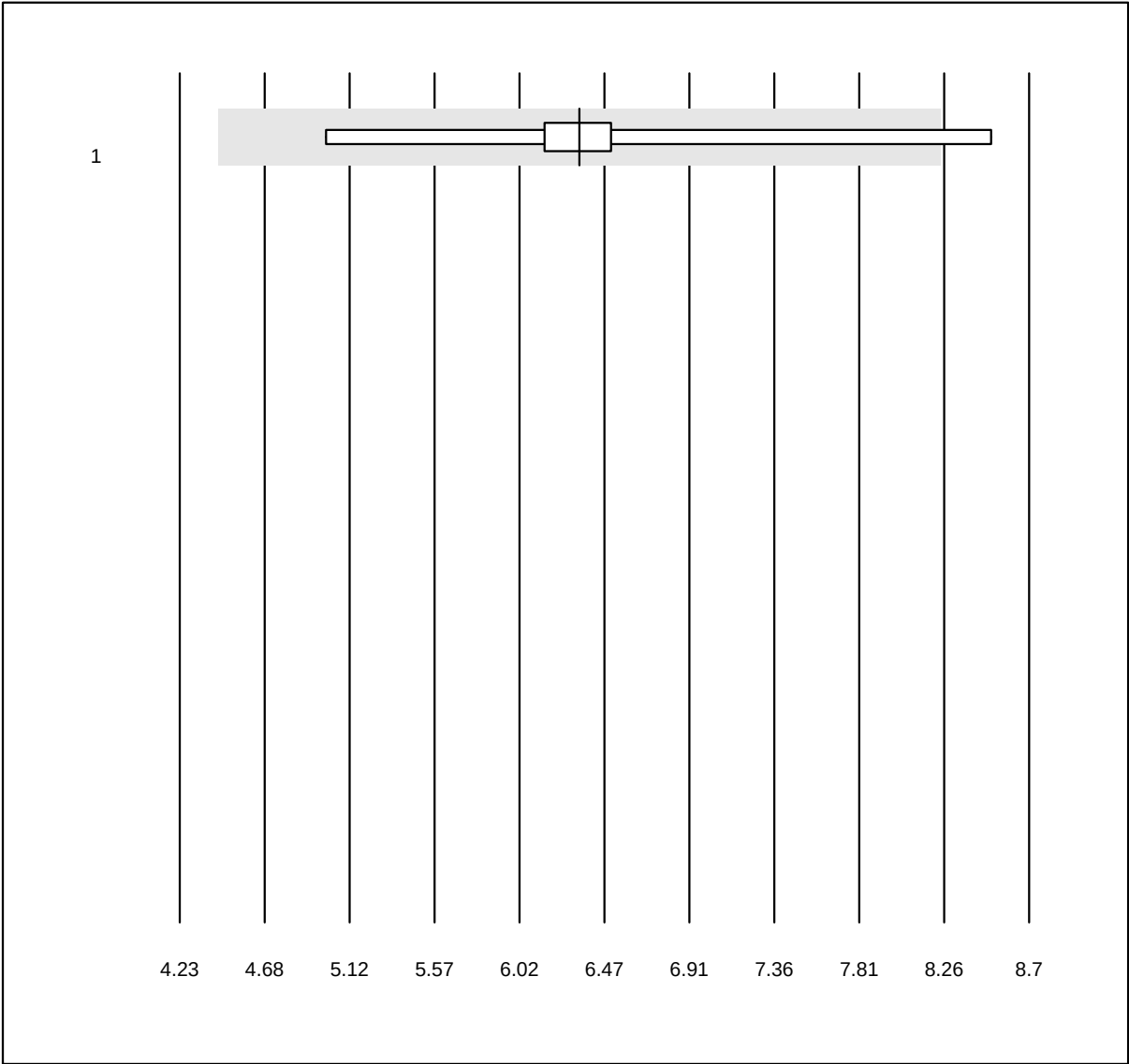


MQ Toleranz: 30%

gamma-Globuline (%)

| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 15    | 93.3 | 0.0       | 6.7       | 11.7         | 21.9 | a*   |

Beta-1-Globulin

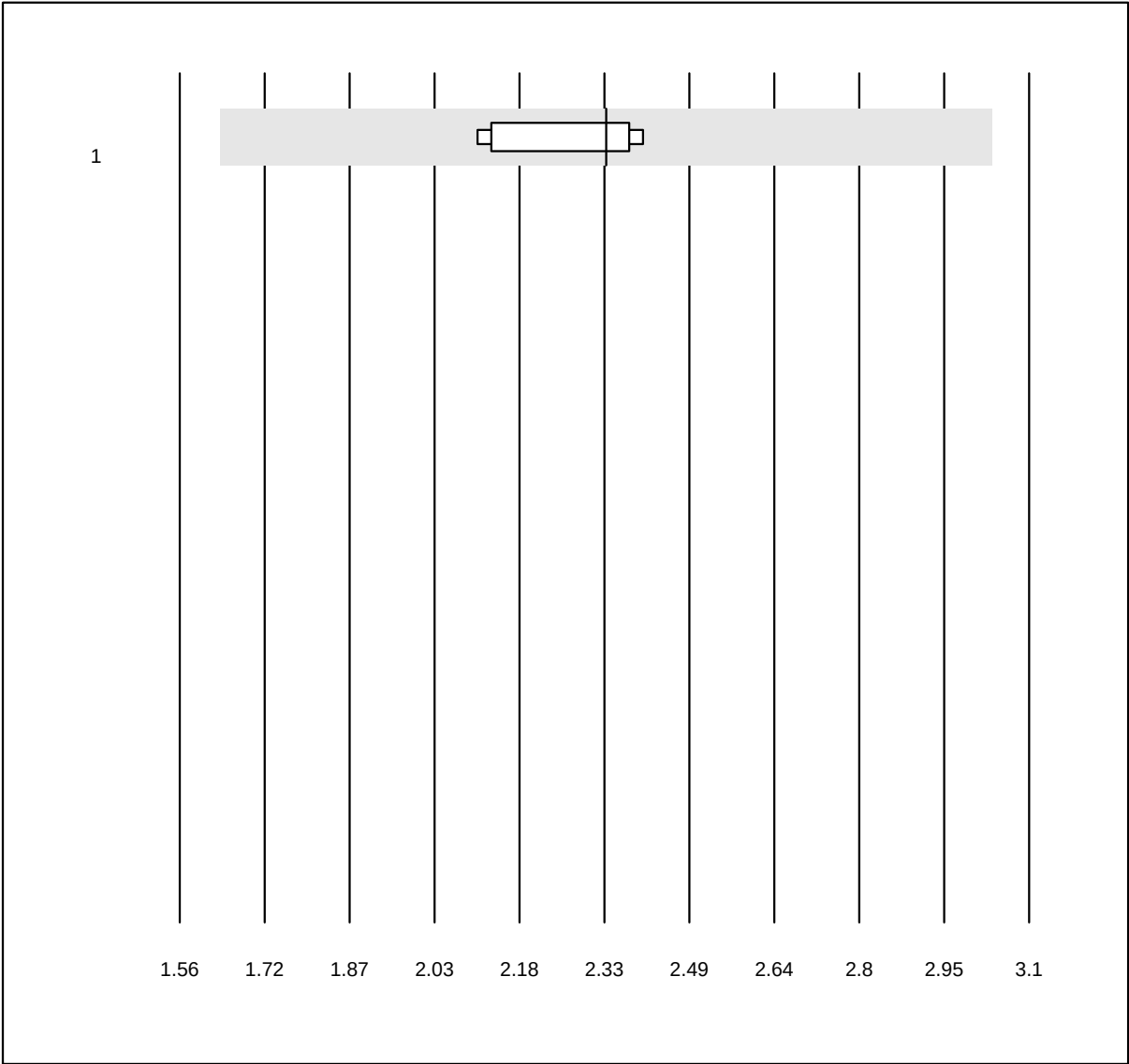


MQ Toleranz: 30%

Beta-1-Globulin (%)

| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 10    | 80.0 | 10.0      | 10.0      | 6.3          | 14.1 | e*   |

Beta-2-Globulin

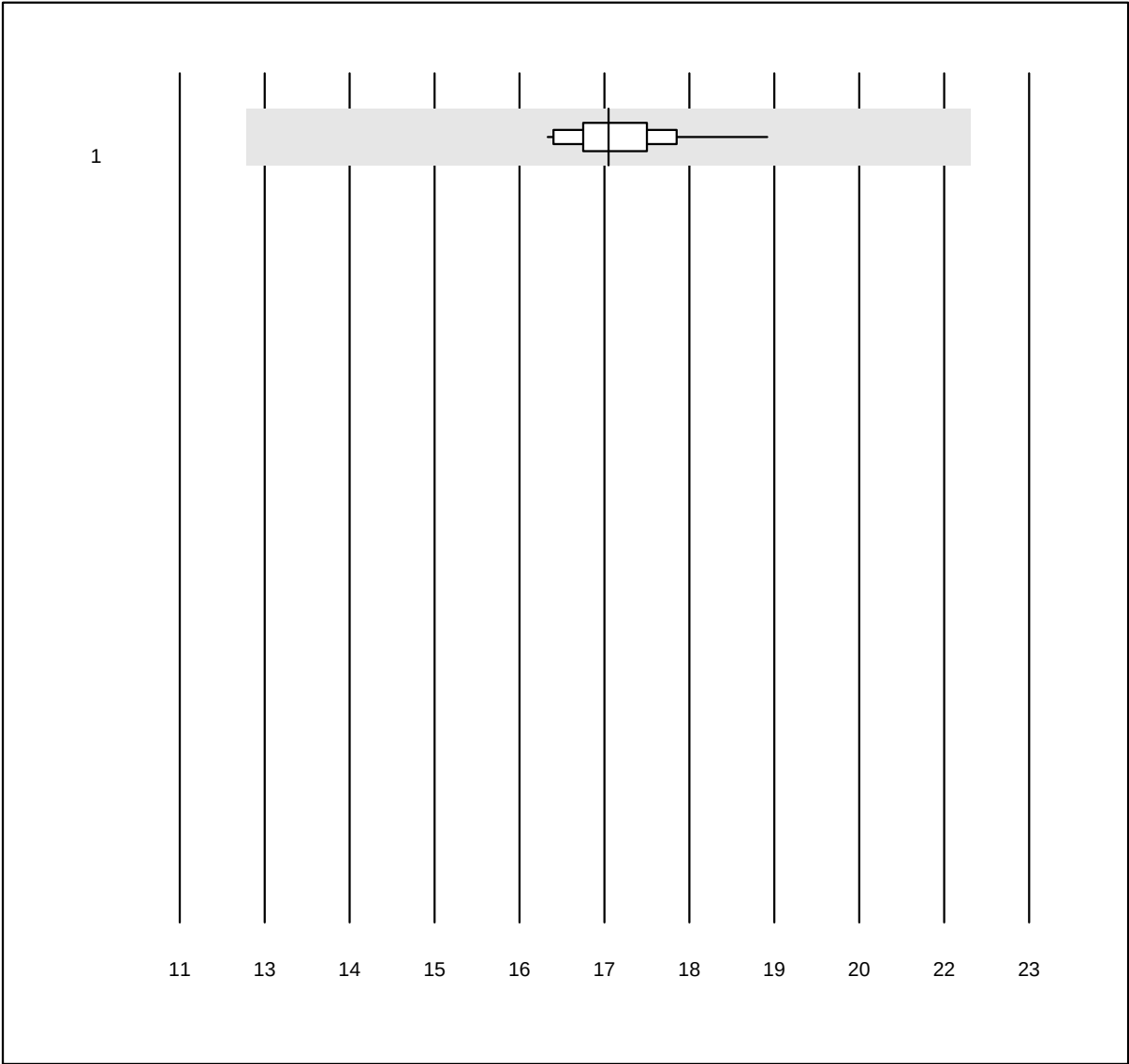


MQ Toleranz: 30%

Beta-2-Globulin (%)

| No. Methode |                | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 10    | 80.0 | 0.0       | 20.0      | 2.3          | 5.2  | e    |

Gamma-Globuline+P



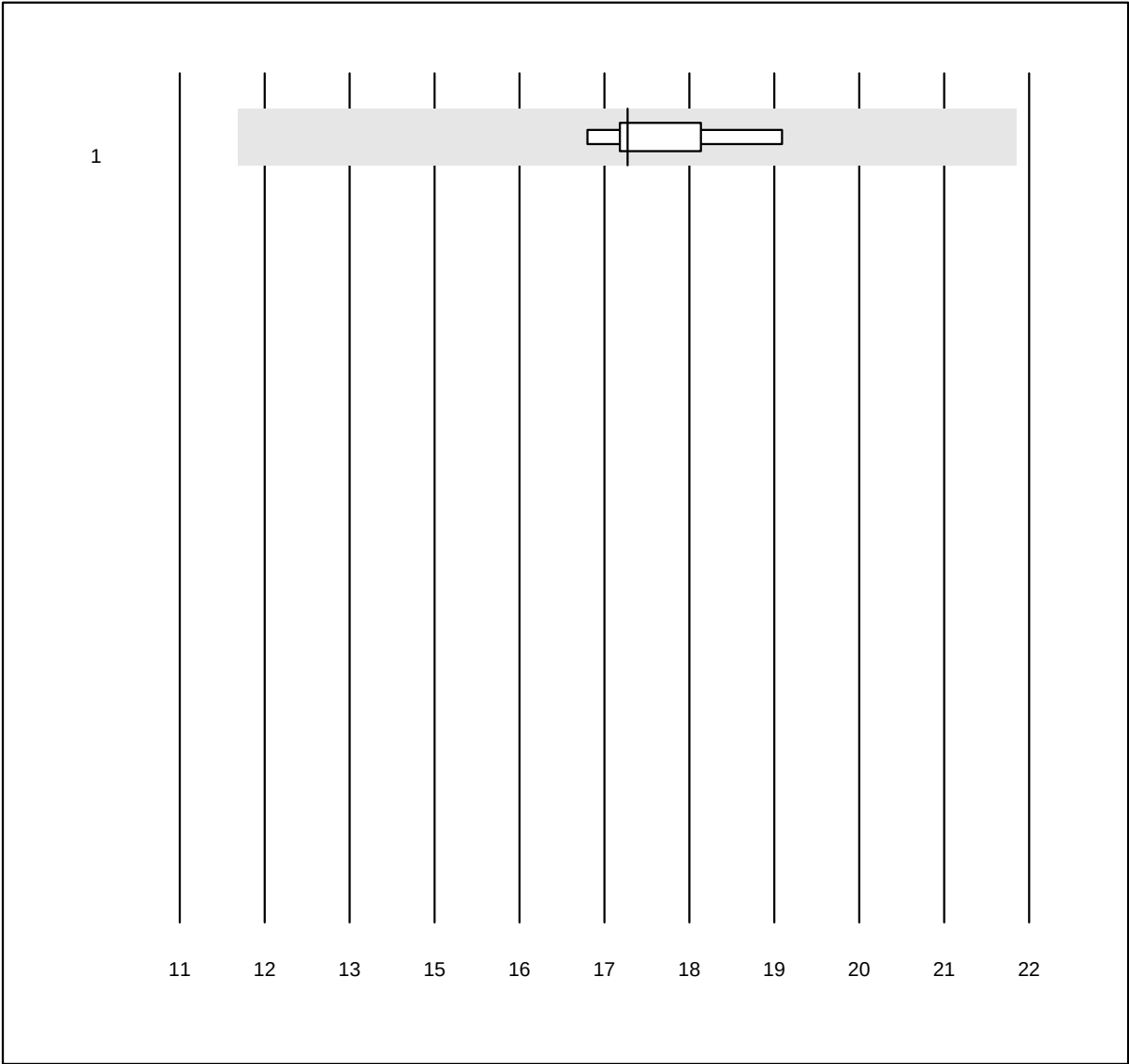
MQ Toleranz: 30%

Gamma-Globuline+P (%)

| No. Methode |                | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 17    | 100.0 | 0.0       | 0.0       | 17.1         | 4.4  | e    |



Beta-Globuline+P

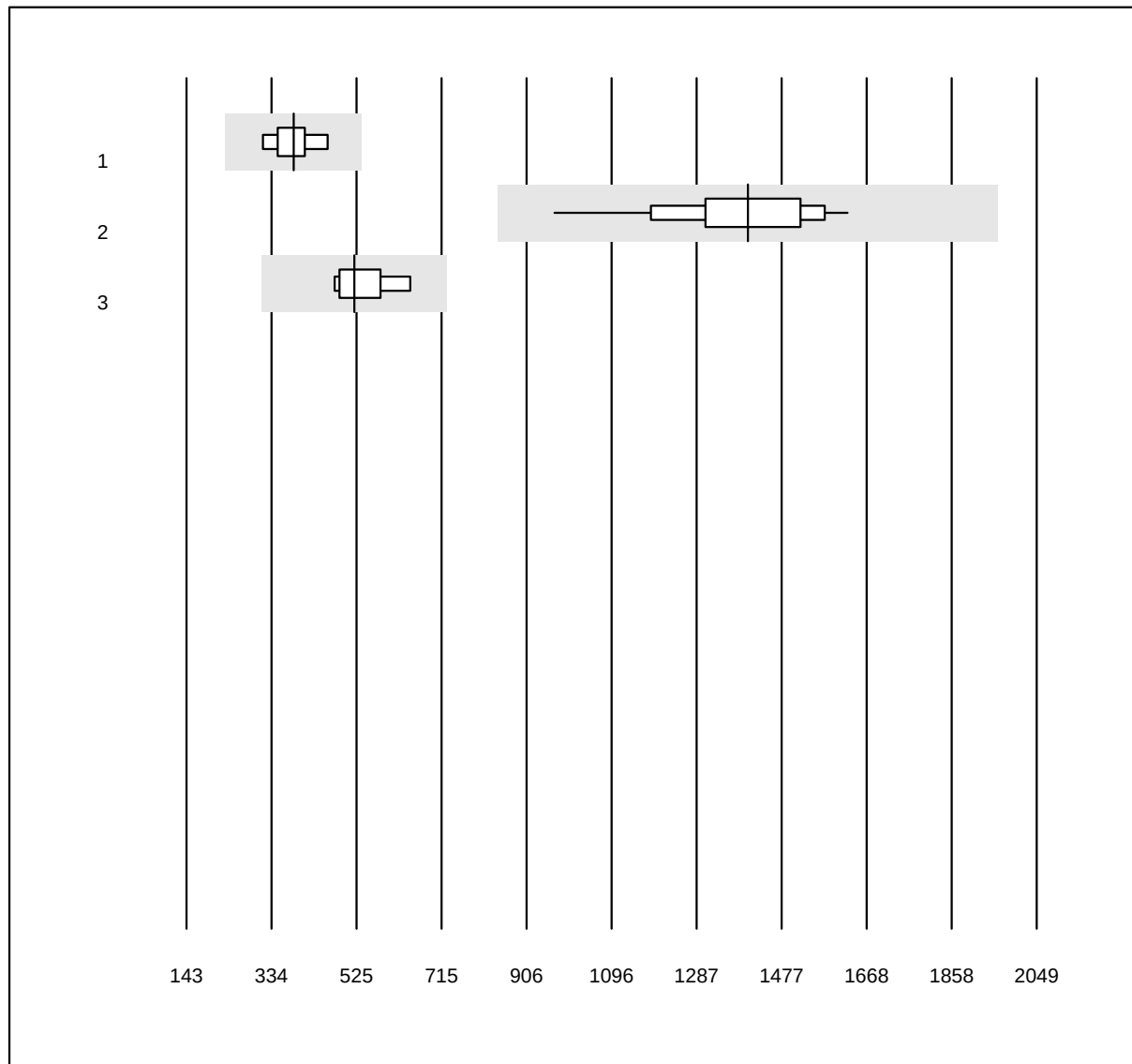


MQ Toleranz: 30%

Beta-Globuline+P (%)

| No. Methode |                | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Elektrophorese | 6     | 100.0 | 0.0       | 0.0       | 17           | 4.4  | e    |

## Folate in Erythrocytes

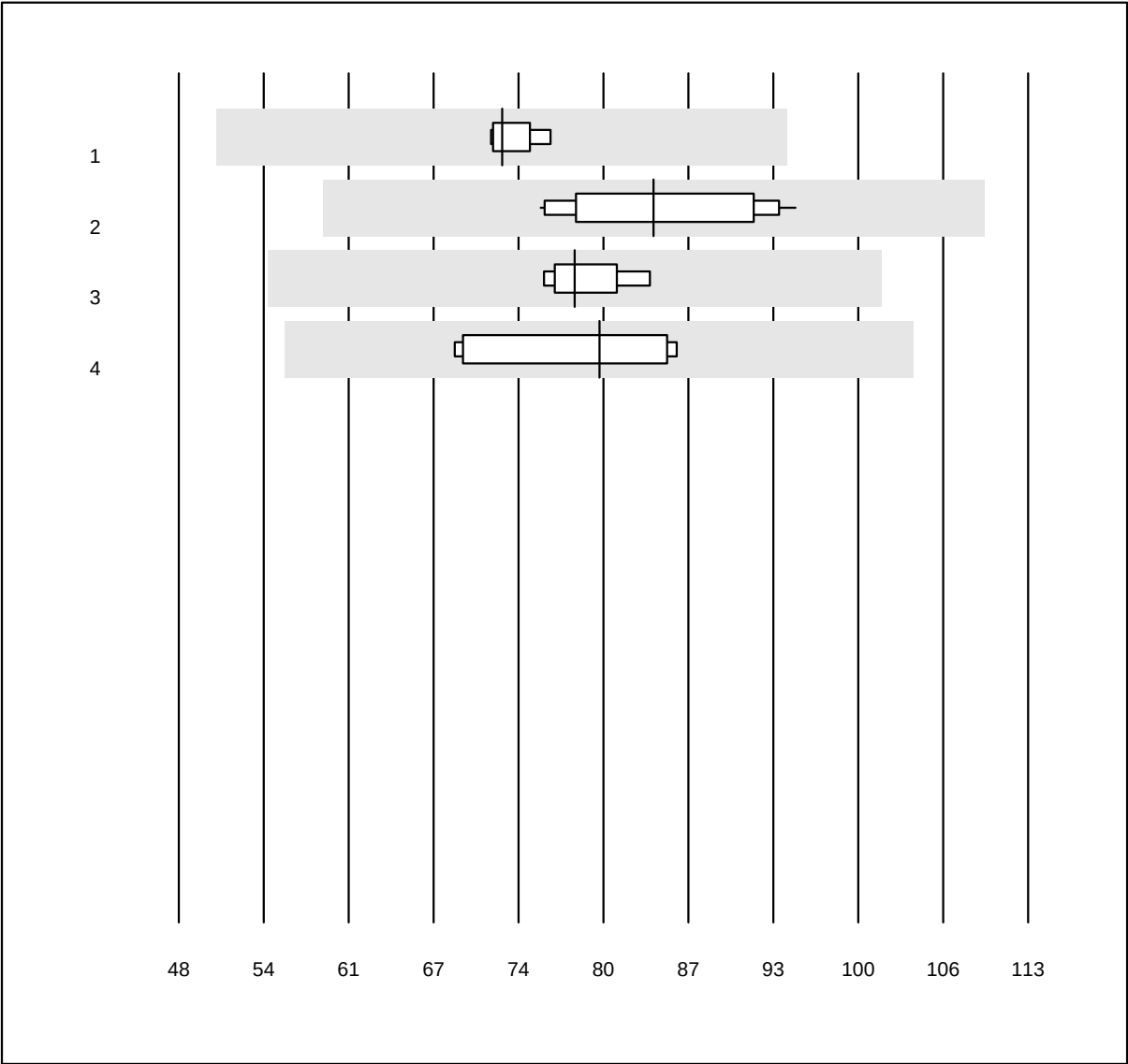


MQ Toleranz: 40%

Folate in Erythrocytes  
(nmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 7     | 100.0 | 0.0       | 0.0       | 383          | 11.3 | e    |
| 2 Roche     | 28    | 100.0 | 0.0       | 0.0       | 1402         | 11.1 | e    |
| 3 Siemens   | 5     | 100.0 | 0.0       | 0.0       | 519          | 10.0 | e    |

Gallensäure

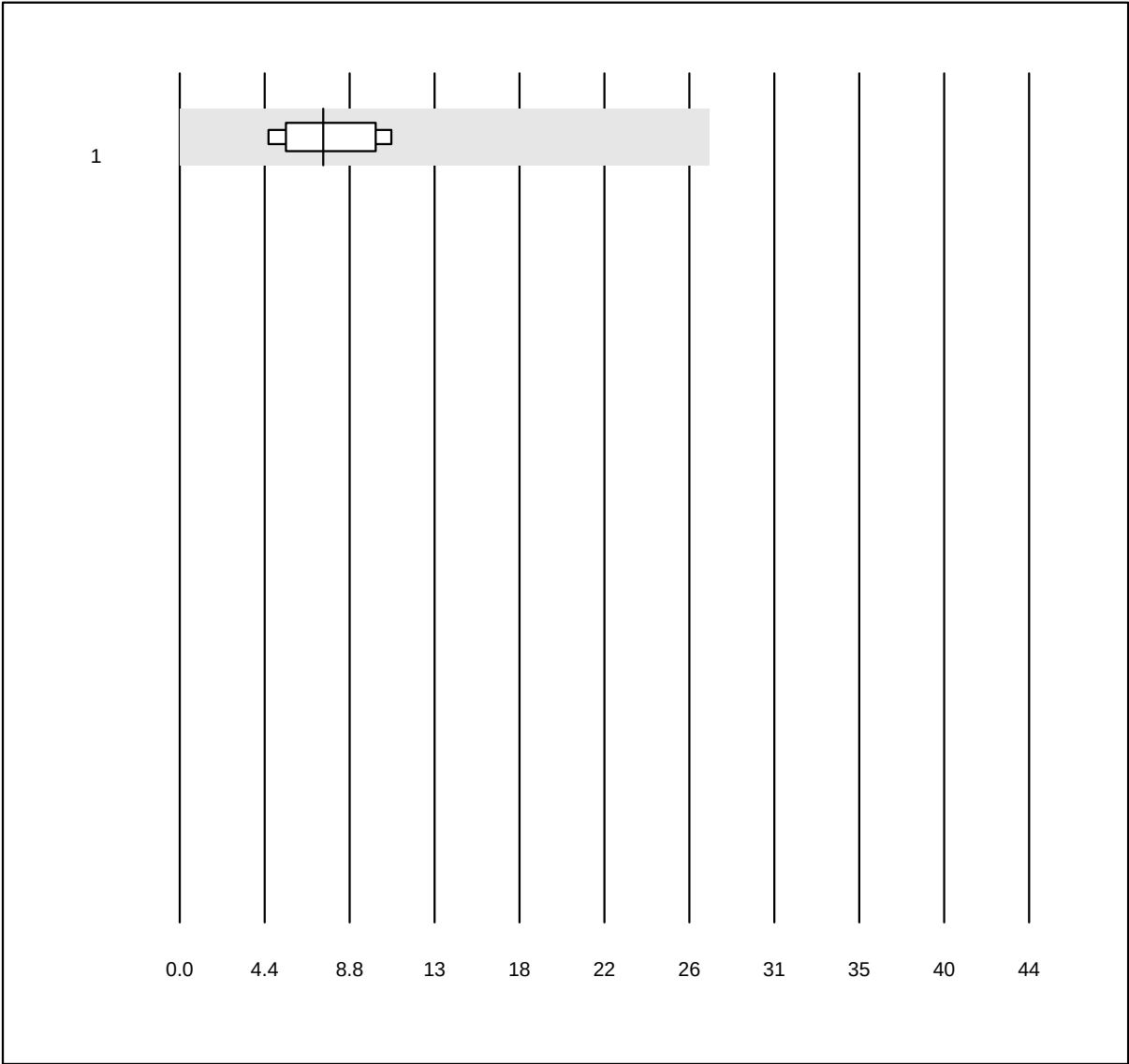


MQ Toleranz: 30%

Gallensäure (µmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott          | 4     | 100.0 | 0.0       | 0.0       | 72.8         | 2.1  | e    |
| 2 Roche           | 15    | 100.0 | 0.0       | 0.0       | 84.3         | 7.8  | e    |
| 3 Siemens         | 4     | 100.0 | 0.0       | 0.0       | 78.3         | 3.2  | e    |
| 4 andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 80.2         | 9.6  | e*   |

BNP

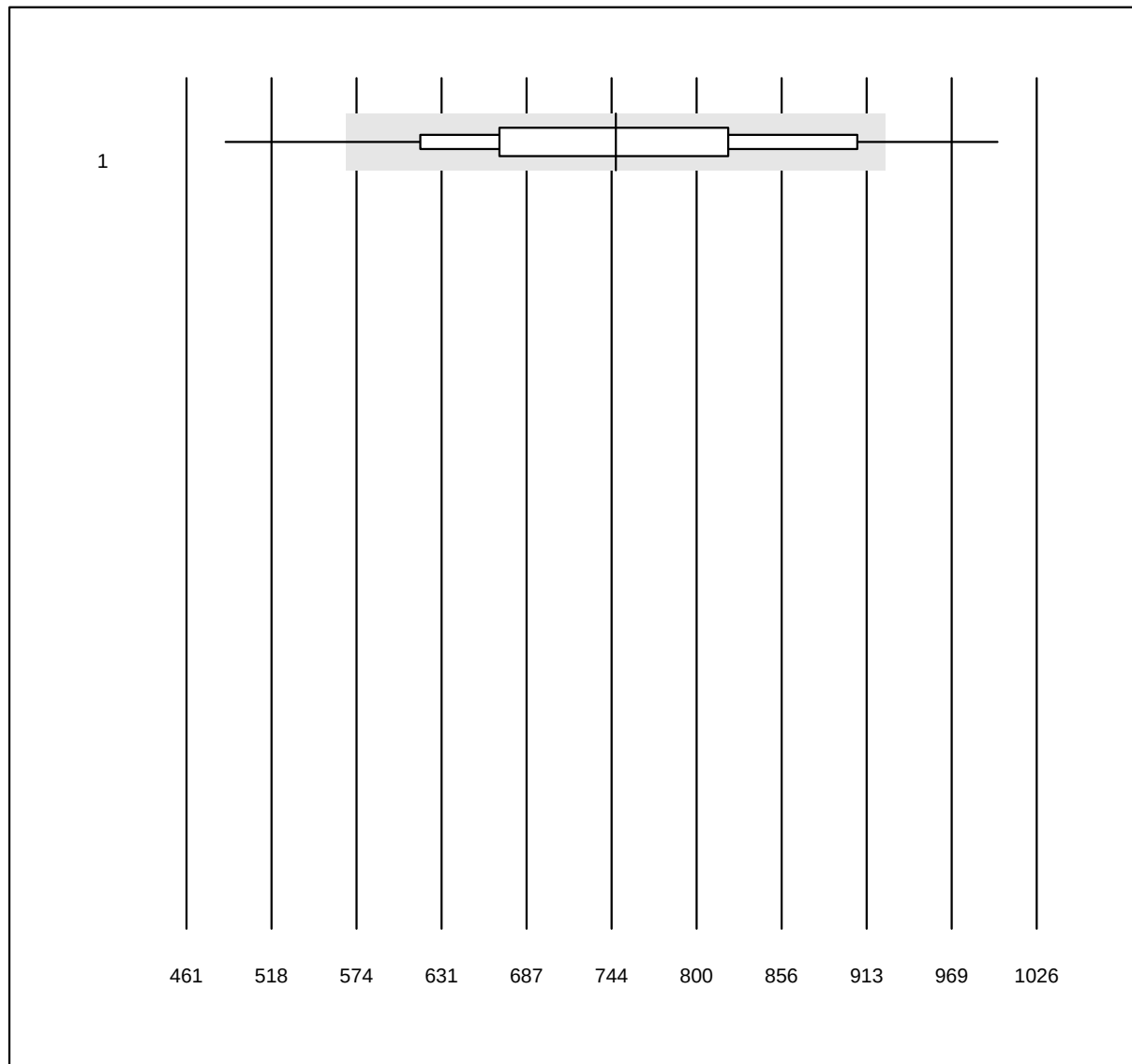


QUALAB Toleranz: 27%  
( < 75.0: +/- 20.0 ng/l)

BNP (ng/l)

| No. Methode |        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Triage | 5     | 100.0 | 0.0       | 0.0       | 7.4          | 32.1 | e    |

## Troponin I Triage



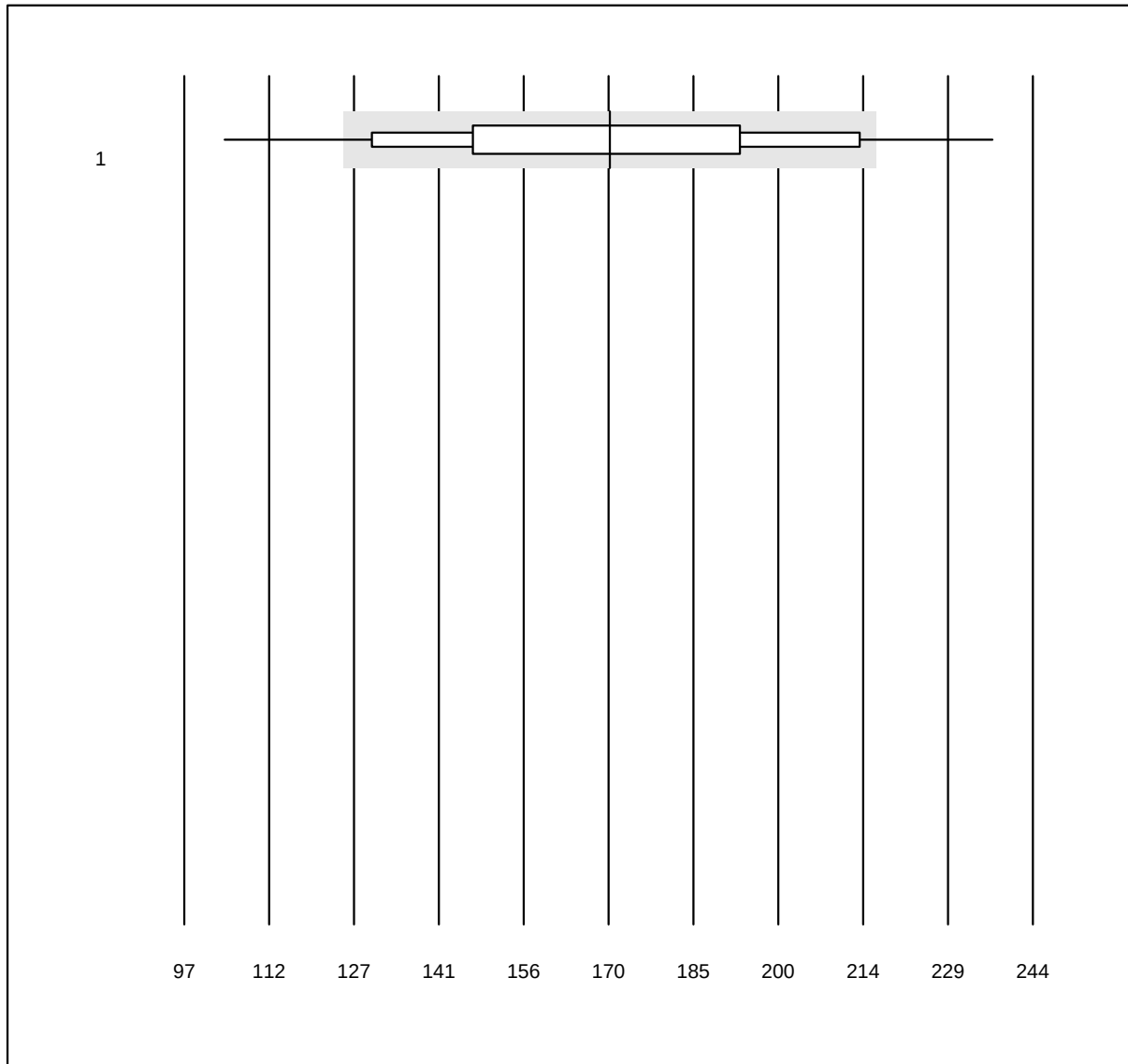
QUALAB Toleranz: 24%

Troponin I Triage (ng/l)

| No. Methode             | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Triage high sensitive | 568   | 89.6 | 9.9       | 0.5       | 746.33       | 14.4 | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## NT-pro BNP

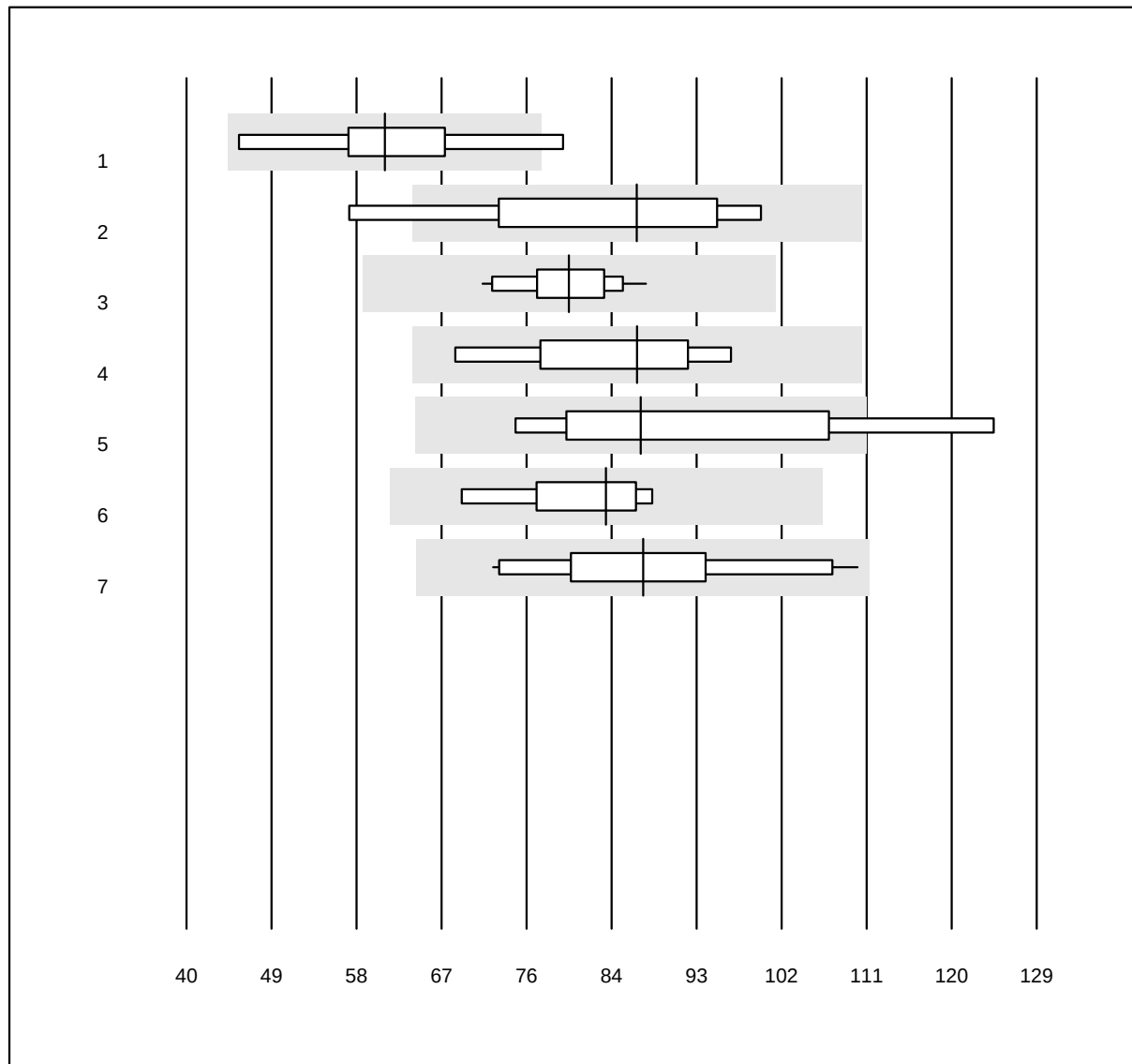


QUALAB Toleranz: 27%

NT-pro BNP (ng/l)

| No. Methode |        | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Triage | 315   | 80.6 | 12.7      | 6.7       | 171          | 18.0 | e    |

## Vitamin D 25 (OH)

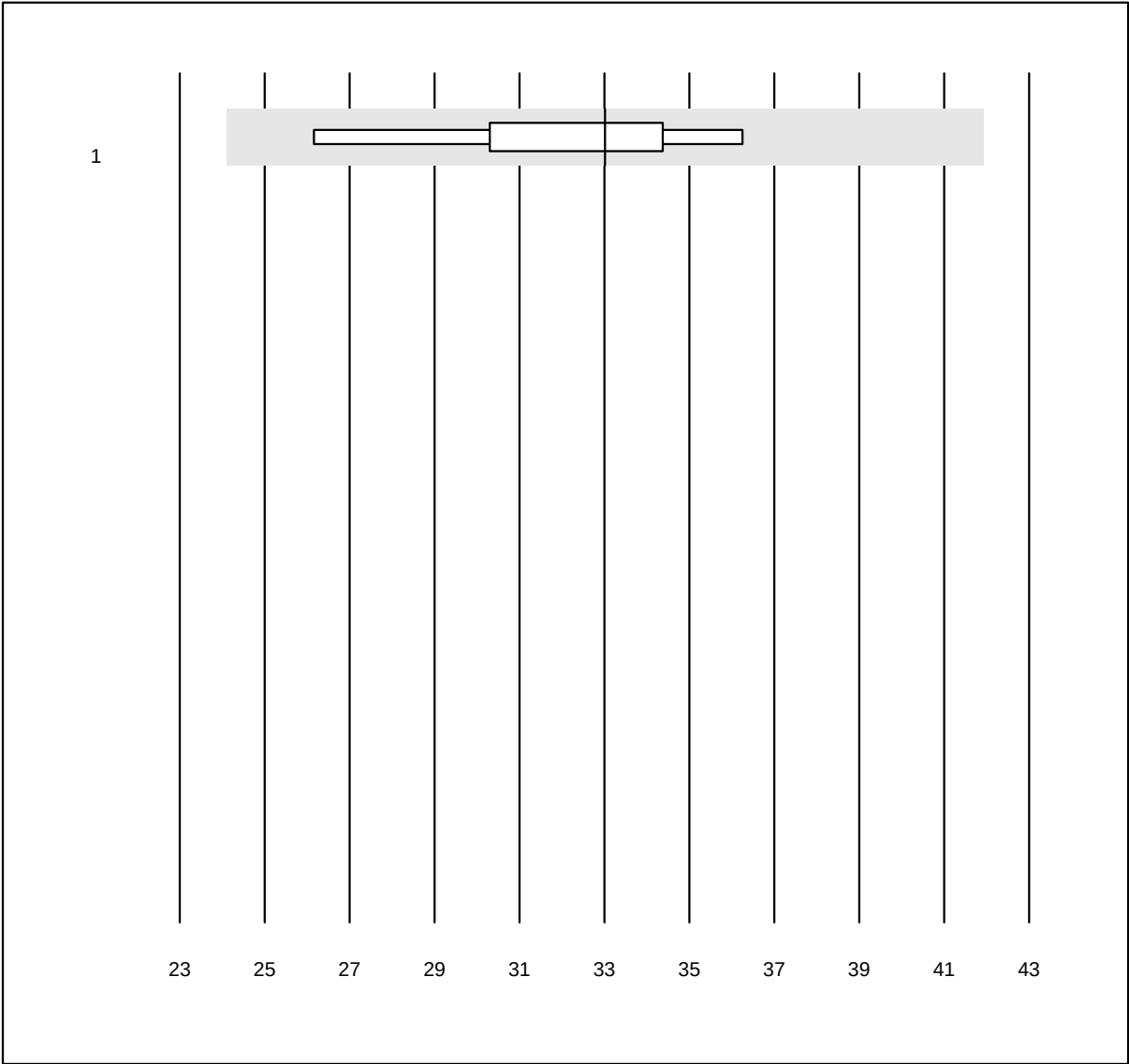


QUALAB Toleranz: 27%

Vitamin D 25 (OH) (nmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS           | 9     | 88.9  | 11.1      | 0.0       | 60.8         | 15.5 | e*   |
| 2 Abbott          | 5     | 100.0 | 0.0       | 0.0       | 87.1         | 15.5 | e*   |
| 3 Cobas           | 24    | 100.0 | 0.0       | 0.0       | 80.0         | 5.9  | e    |
| 4 LCMS            | 5     | 100.0 | 0.0       | 0.0       | 87.2         | 10.4 | e*   |
| 5 Siemens         | 4     | 75.0  | 25.0      | 0.0       | 87.5         | 16.5 | e*   |
| 6 VIDAS           | 5     | 100.0 | 0.0       | 0.0       | 83.9         | 7.5  | e*   |
| 7 andere Methoden | 16    | 100.0 | 0.0       | 0.0       | 87.8         | 12.8 | e    |

Vitamin D 1,25-(OH)2



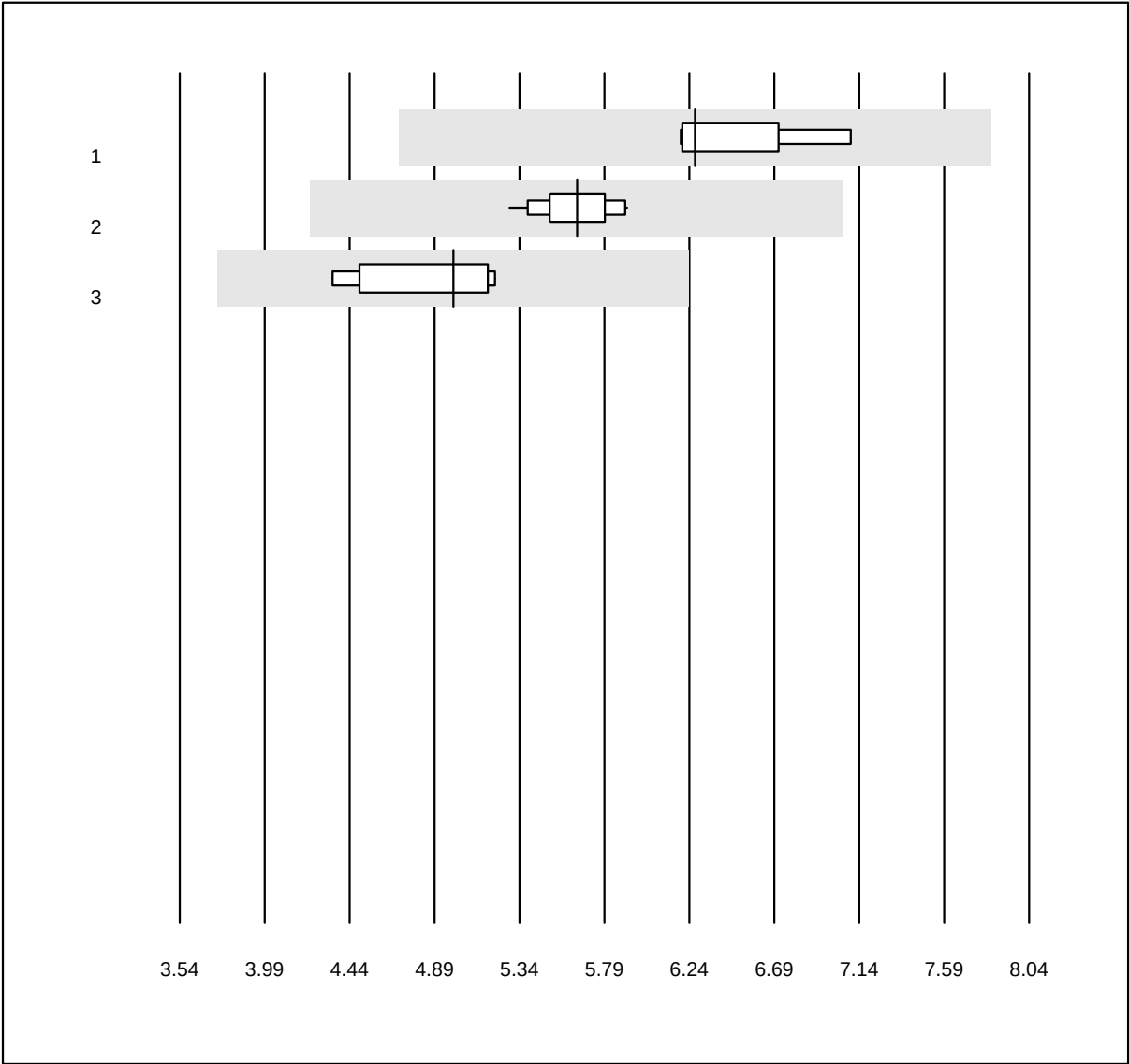
MQ Toleranz: 27%

Vitamin D 1,25-(OH)2 (ng/l)

| No. Methode |                 | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | andere Methoden | 5     | 100.0 | 0.0       | 0.0       | 33.0         | 8.4  | e*   |



AMH



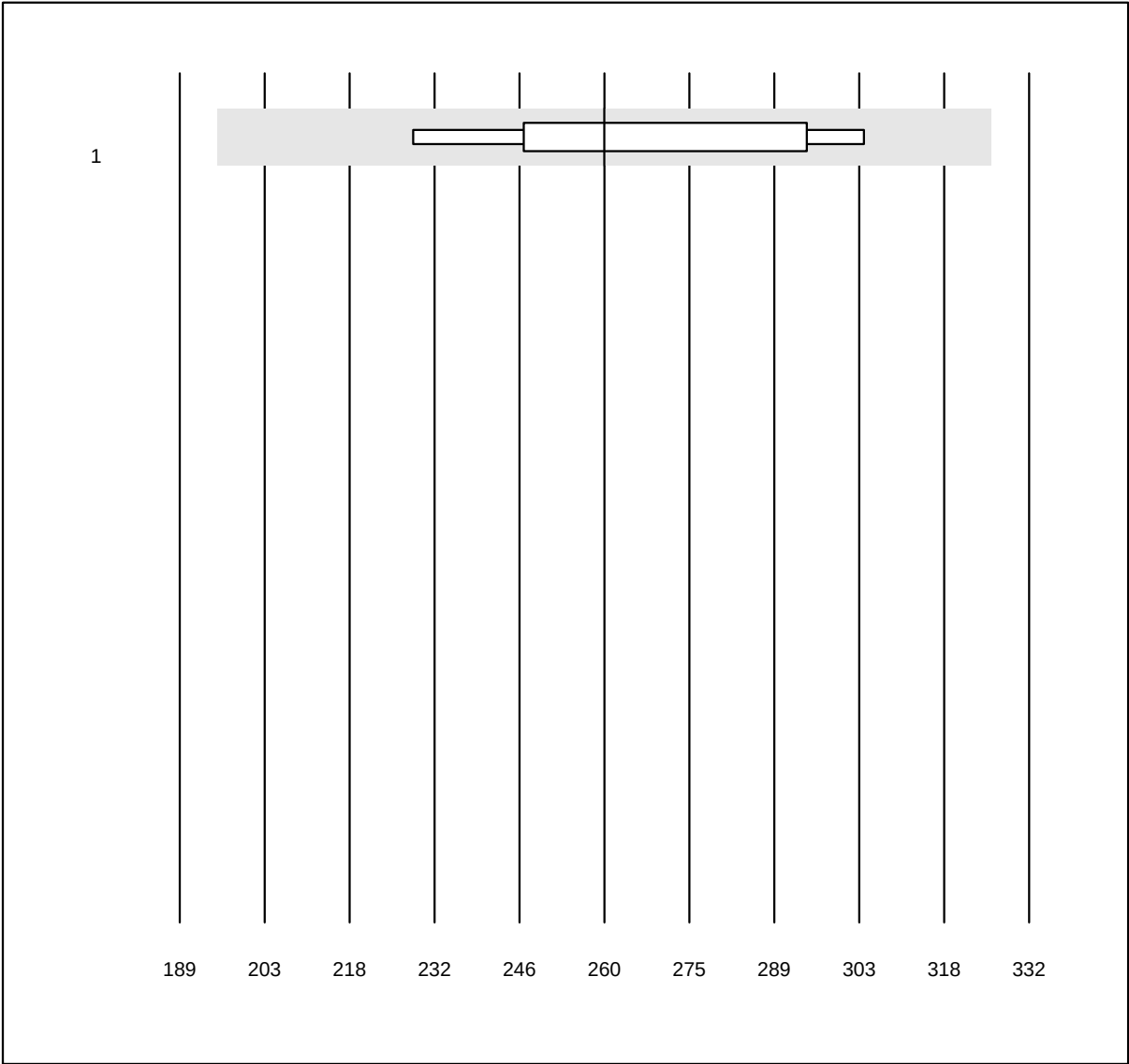
MQ Toleranz: 25%

AMH (pmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Beckman   | 4     | 100.0 | 0.0       | 0.0       | 6.3          | 4.7  | e    |
| 2 Roche     | 14    | 100.0 | 0.0       | 0.0       | 5.6          | 3.2  | e    |
| 3 VIDAS     | 8     | 100.0 | 0.0       | 0.0       | 5.0          | 7.1  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Inhibin B

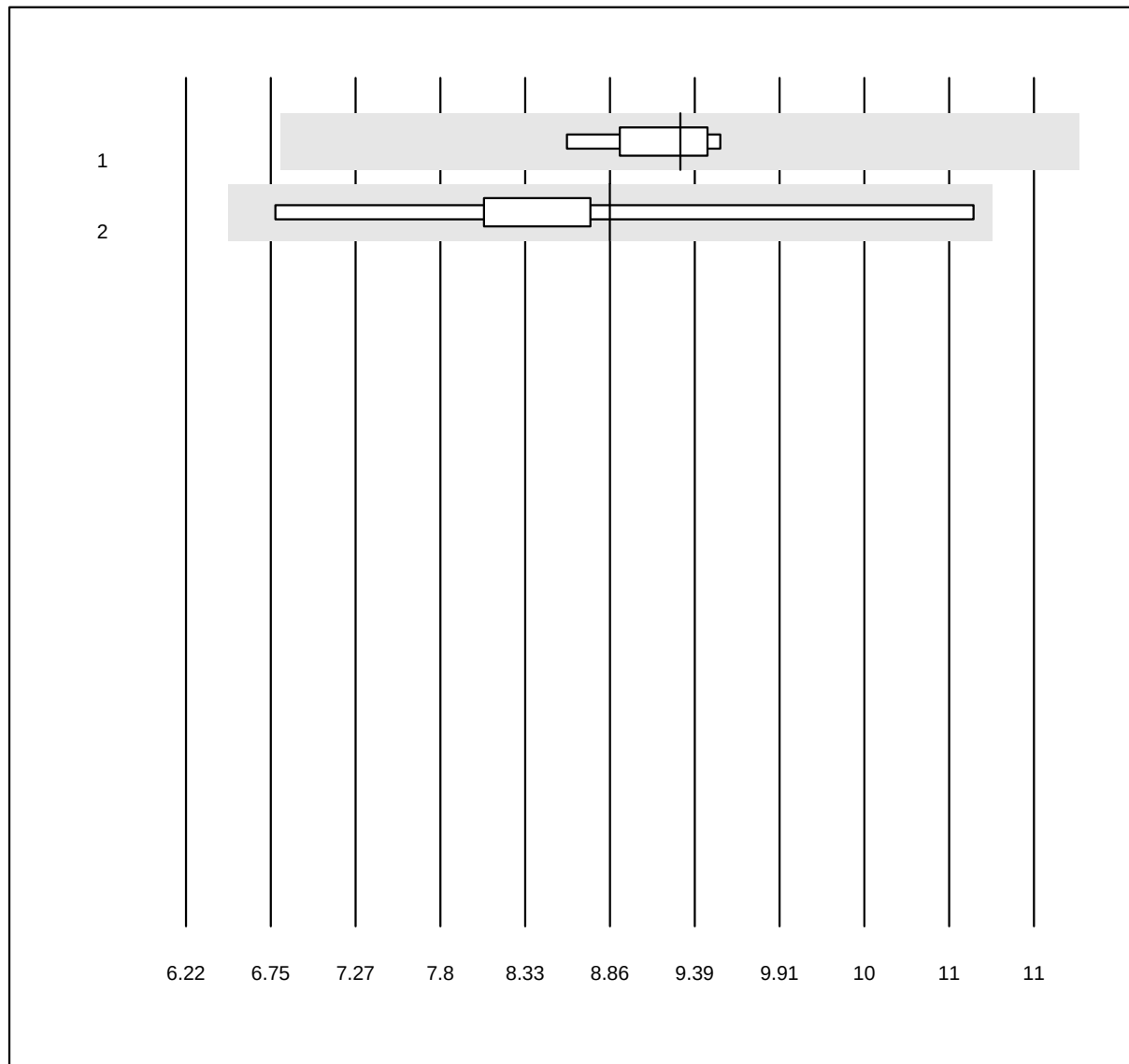


MQ Toleranz: 25%

Inhibin B (ng/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 8     | 100.0 | 0.0       | 0.0       | 260.5        | 9.8  | e*   |

## Calcitonin

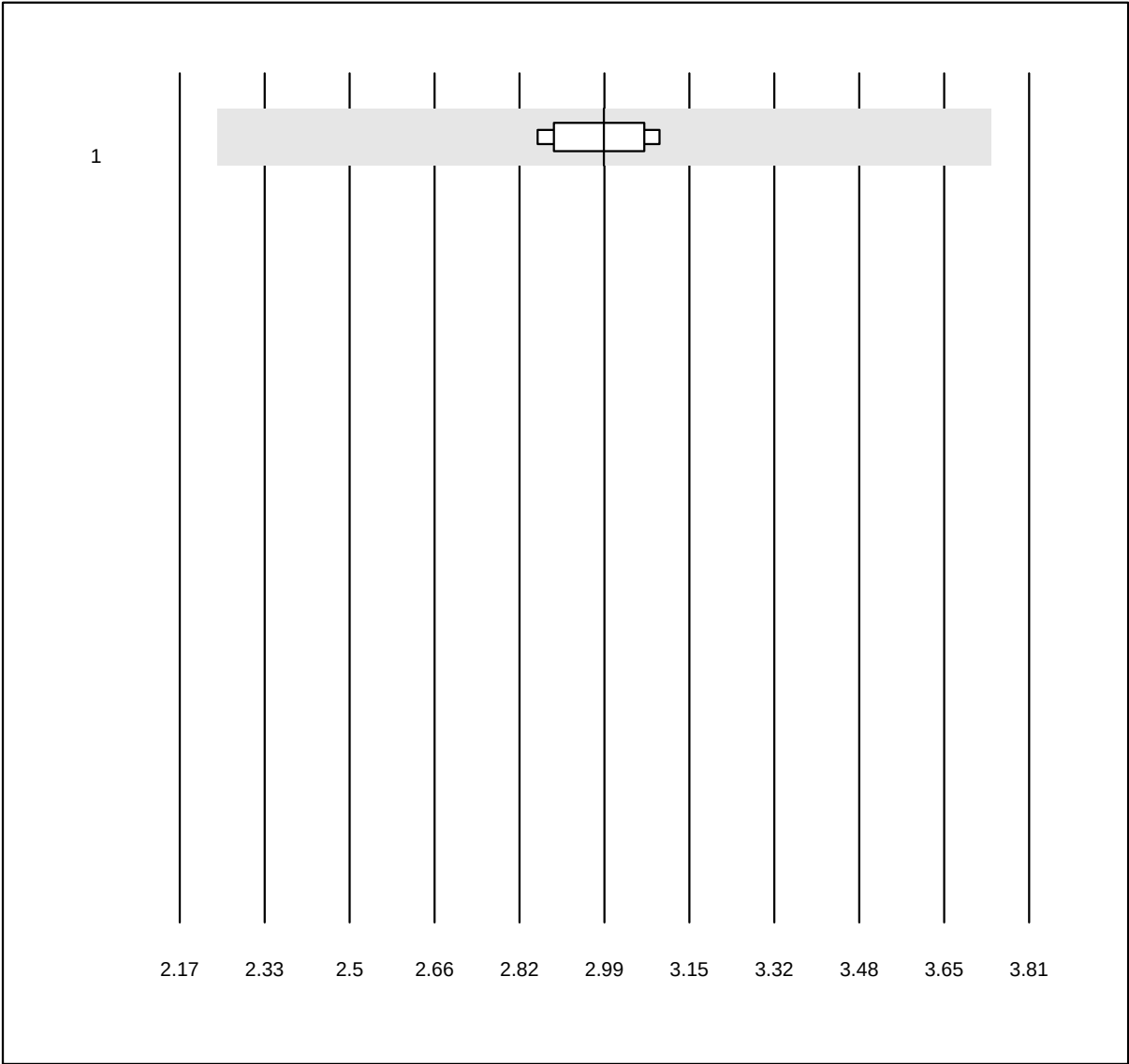


MQ Toleranz: 25%

Calcitonin (pmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Liaison         | 5     | 100.0 | 0.0       | 0.0       | 9.0          | 3.2  | e    |
| 2 andere Methoden | 7     | 100.0 | 0.0       | 0.0       | 8.6          | 12.3 | a*   |

IGF-BP3



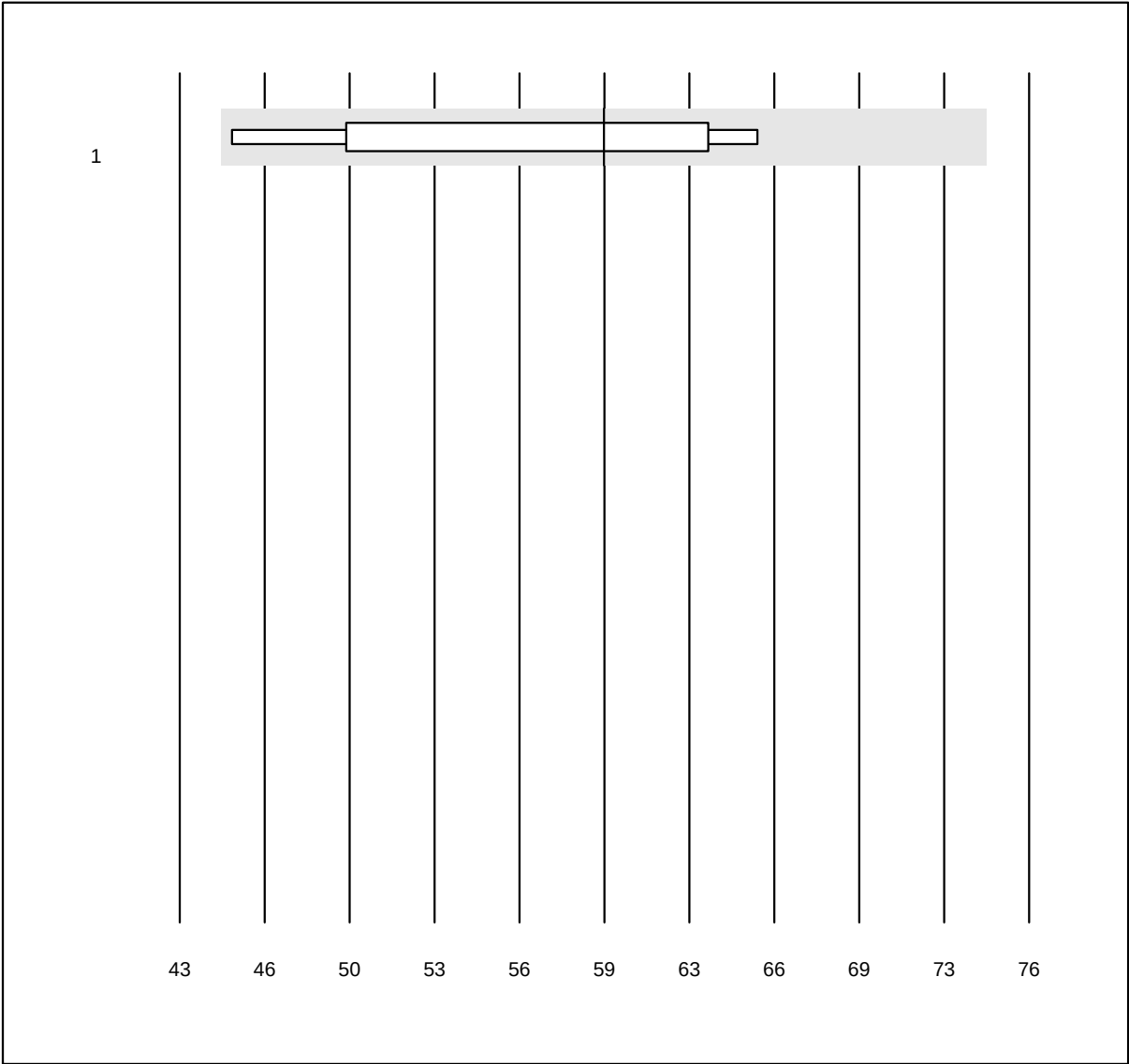
MQ Toleranz: 25%

IGF-BP3 (mg/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas | 6     | 100.0 | 0.0       | 0.0       | 2.99         | 3.2  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

Renin



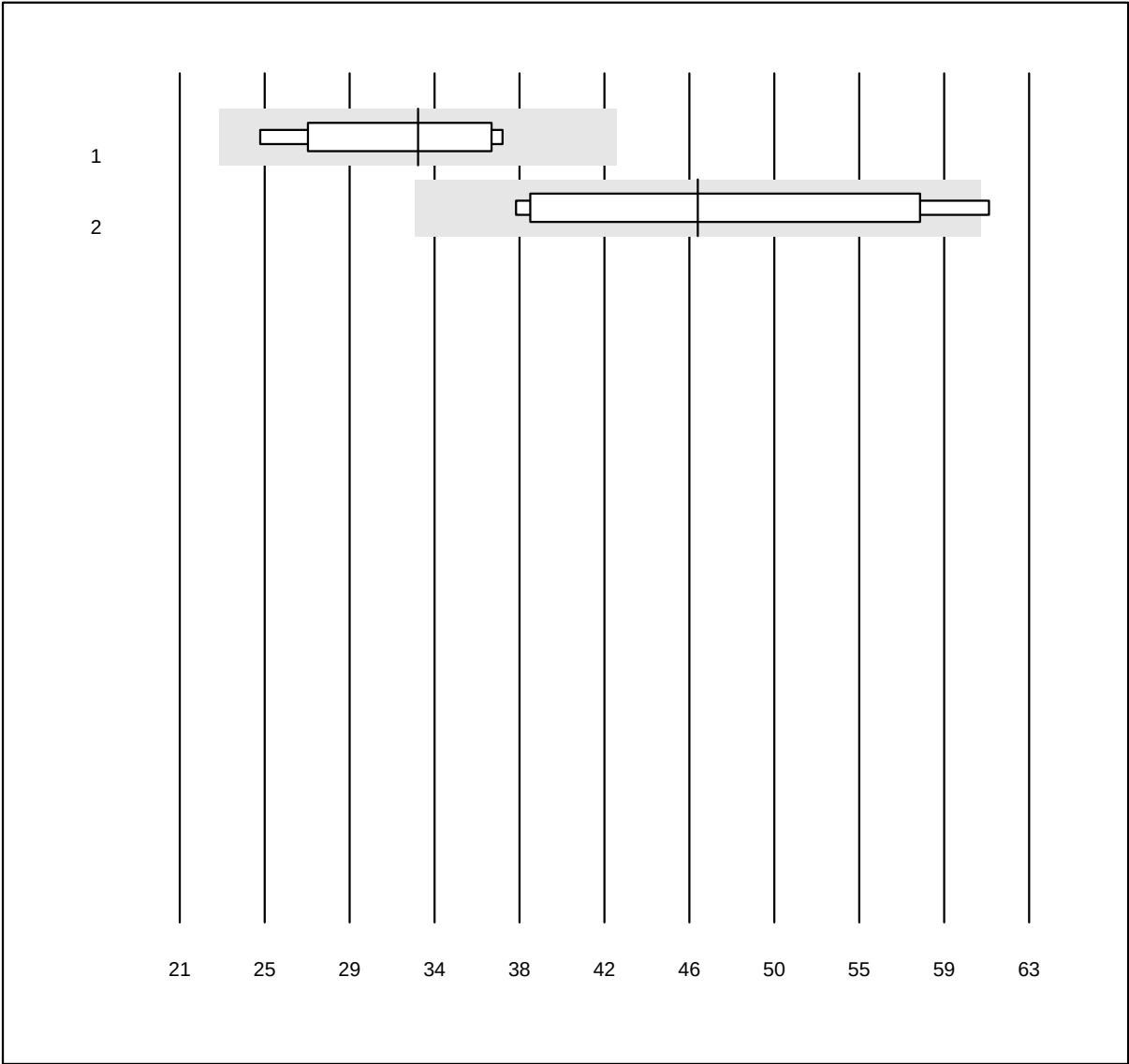
MQ Toleranz: 25%

Renin (mU/l)

| No. Methode |         | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Liaison | 8     | 100.0 | 0.0       | 0.0       | 59.5         | 13.3 | e*   |

2 additional results were submitted but not published because the method groups were too small. (< results per group)

Aldosteron

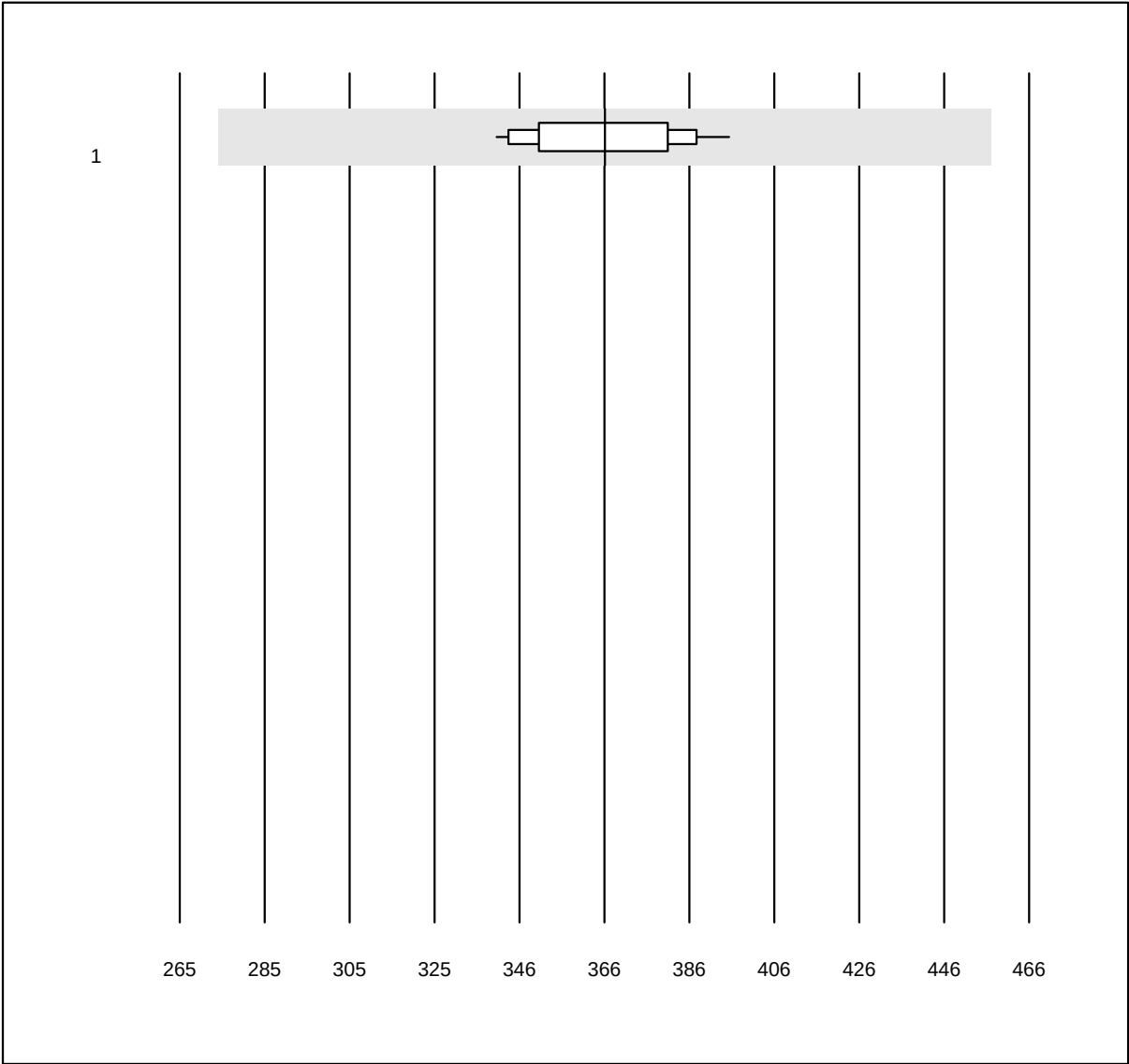


MQ Toleranz: 30%

Aldosteron (ng/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alle Methoden | 4     | 100.0 | 0.0       | 0.0       | 32.8         | 15.1 | e*   |
| 2 Liaison       | 4     | 100.0 | 0.0       | 0.0       | 46.6         | 22.1 | e*   |

Anti Thyreoglobulin



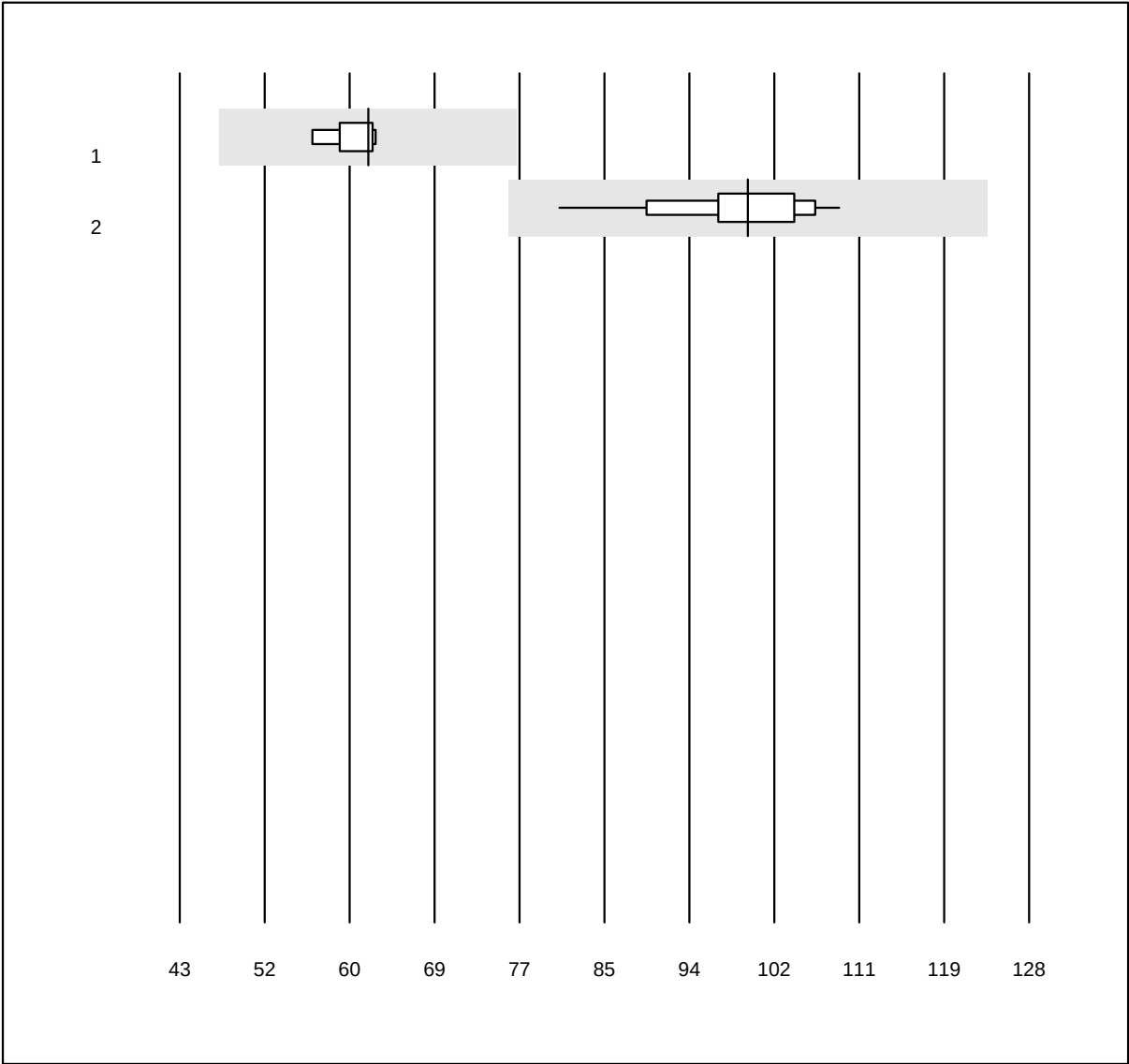
MQ Toleranz: 25%

Anti Thyreoglobulin (IU/ml)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 16    | 100.0 | 0.0       | 0.0       | 366          | 4.4  | e    |

6 additional results were submitted but not published because the method groups were too small. (< results per group)

Anti TPO



QUALAB Toleranz: 24%

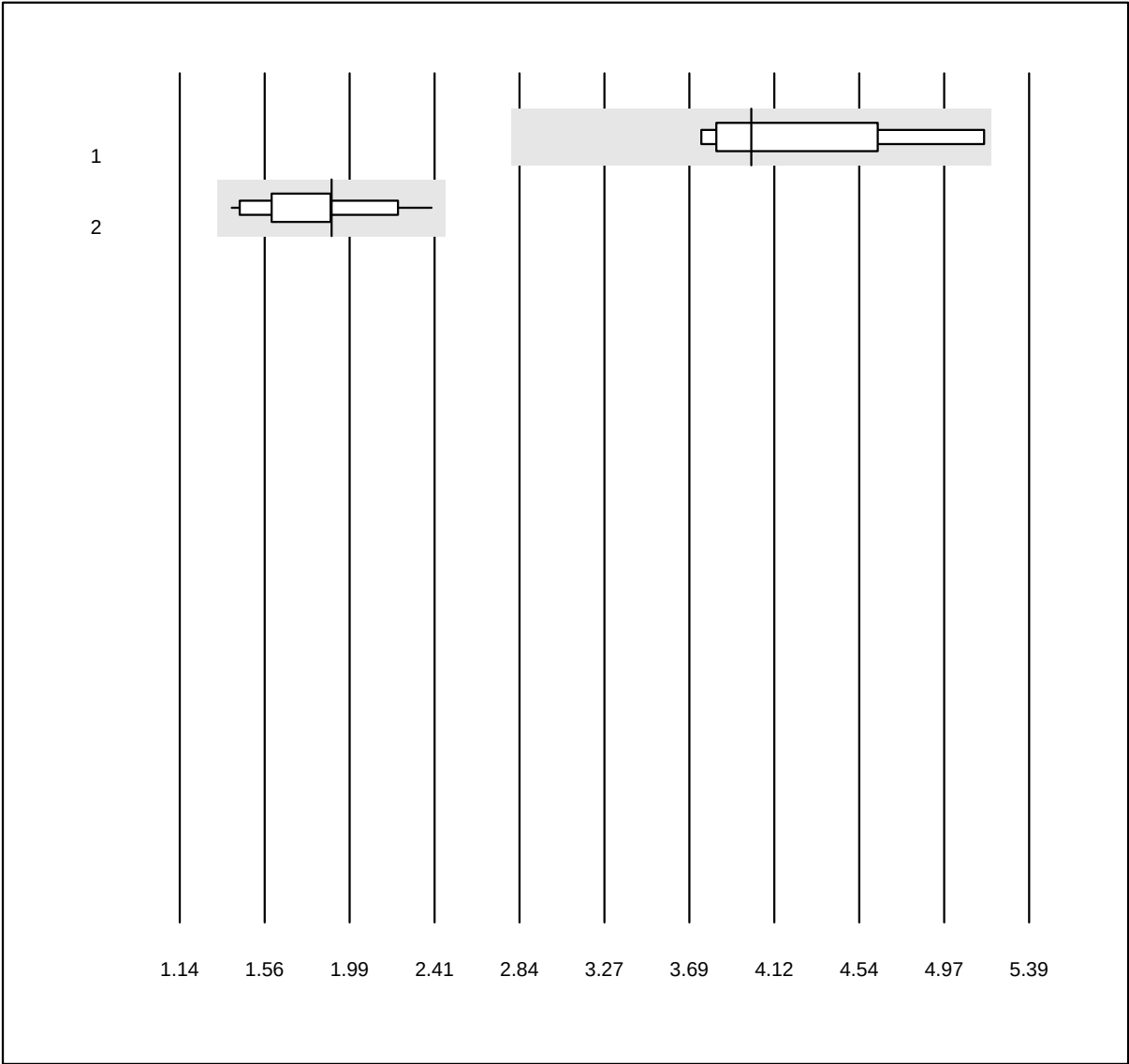
Anti TPO (IU/ml)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Abbott  | 4     | 100.0 | 0.0       | 0.0       | 62           | 3.3  | e    |
| 2   | Roche   | 17    | 100.0 | 0.0       | 0.0       | 100          | 6.5  | e    |

3 additional results were submitted but not published because the method groups were too small. (< results per group)



TRAK



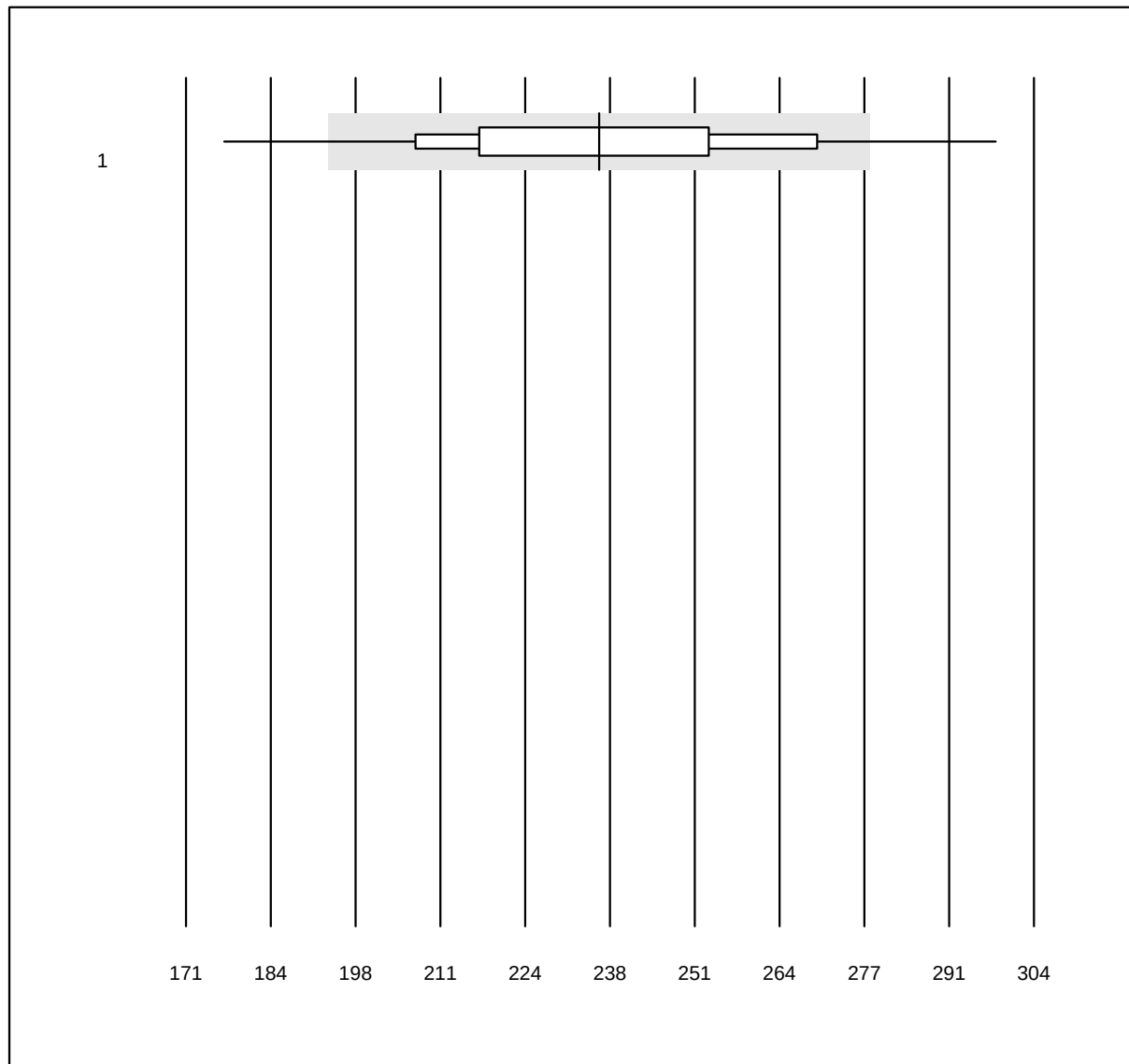
MQ Toleranz: 25%

TRAK (IU/l)

| No. | Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Abbott  | 4     | 100.0 | 0.0       | 0.0       | 4.00         | 11.0 | a*   |
| 2   | Roche   | 13    | 100.0 | 0.0       | 0.0       | 1.90         | 14.5 | a*   |

3 additional results were submitted but not published because the method groups were too small. (< results per group)

## Creatinine WB

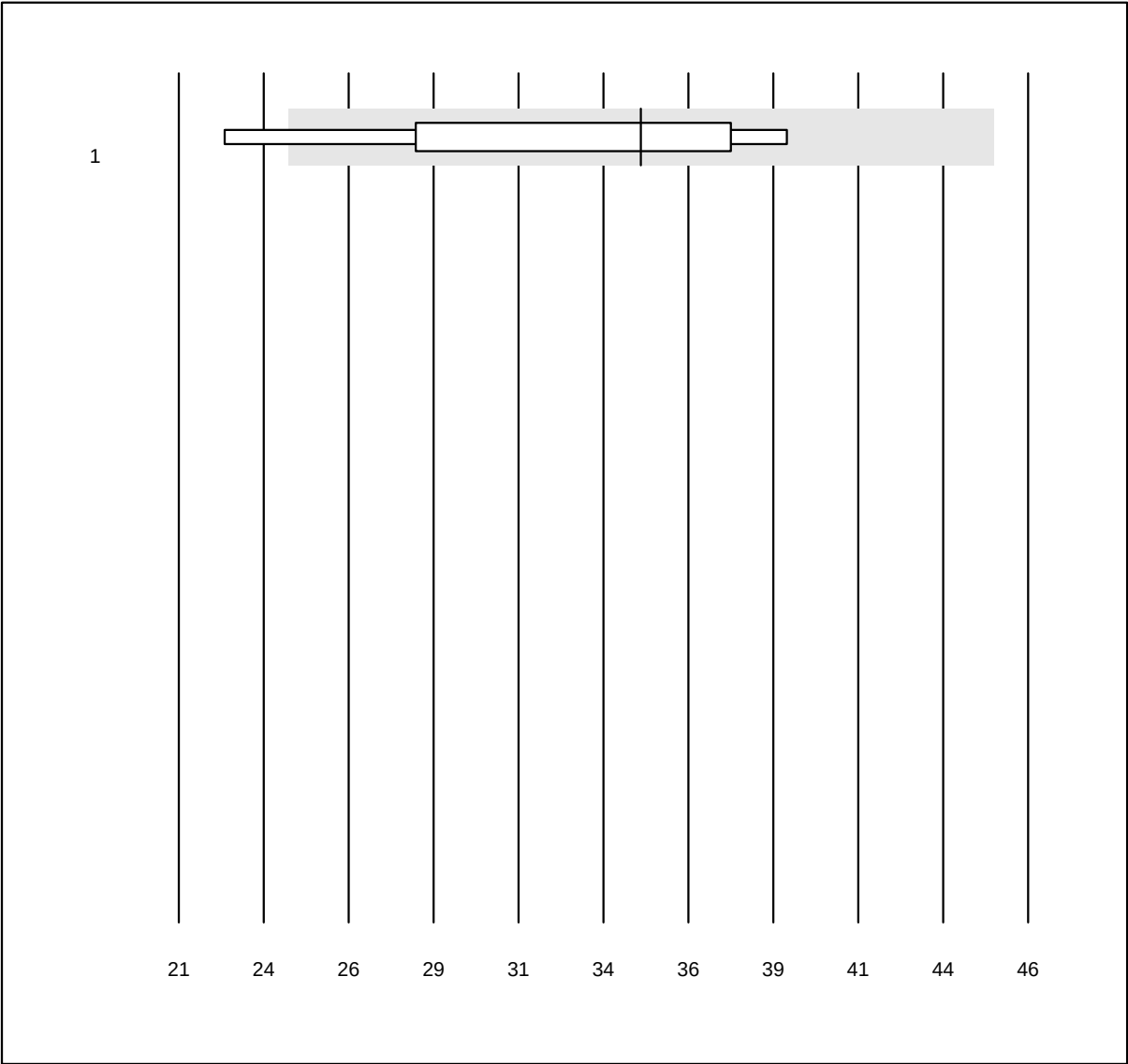


QUALAB Toleranz: 18%

Creatinine WB (µmol/l)

| No. Methode           | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|------|-----------|-----------|--------------|------|------|
| 1 Statsensor i / Nova | 81    | 87.7 | 9.9       | 2.5       | 236          | 10.5 | e    |

eGFR CDK-EPI WB

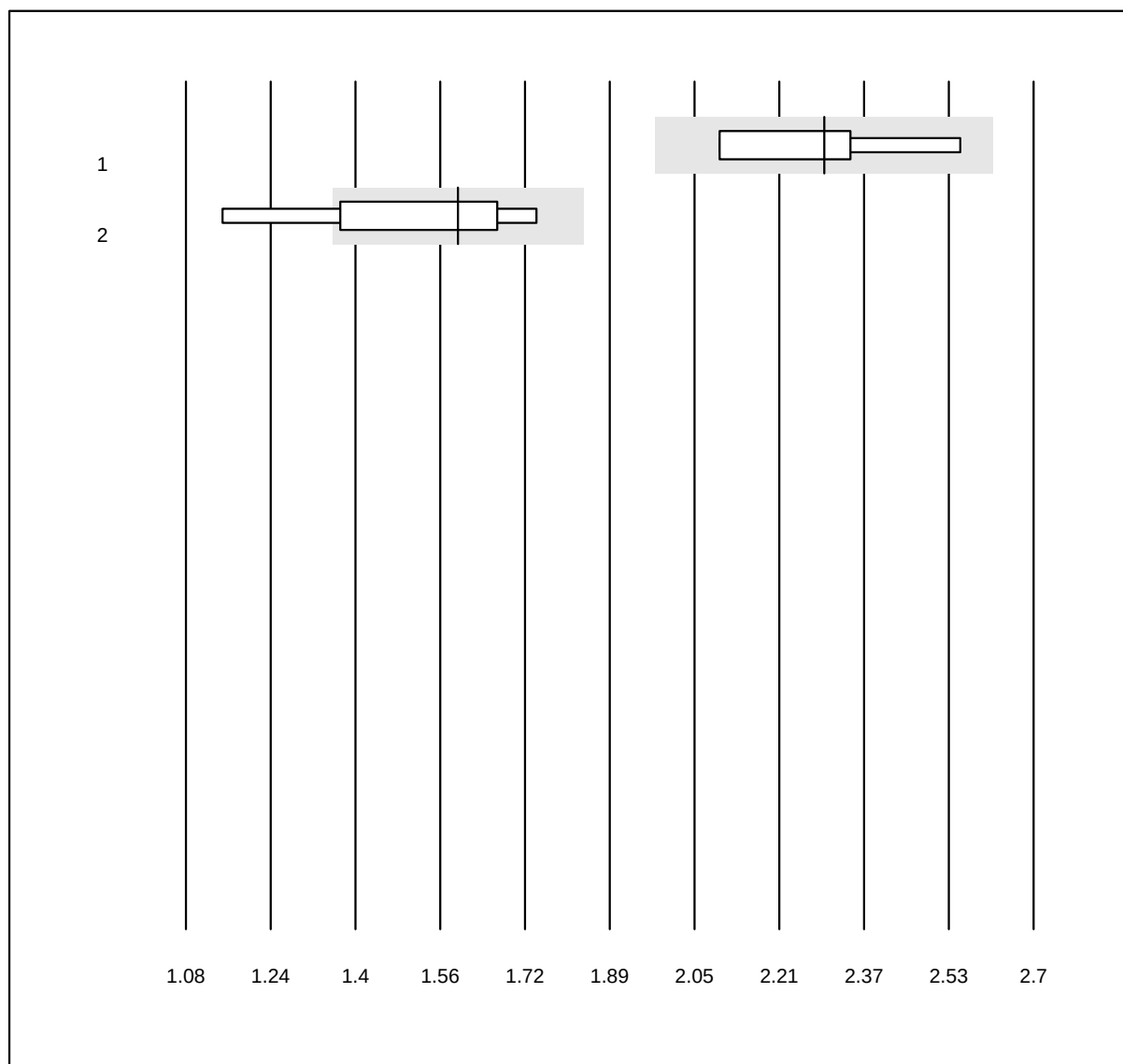


MQ Toleranz: 30%

eGFR CDK-EPI WB ()

| No. Methode |                     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Statsensor i / Nova | 4     | 100.0 | 0.0       | 0.0       | 35           | 15.3 | e*   |

## Keton WB

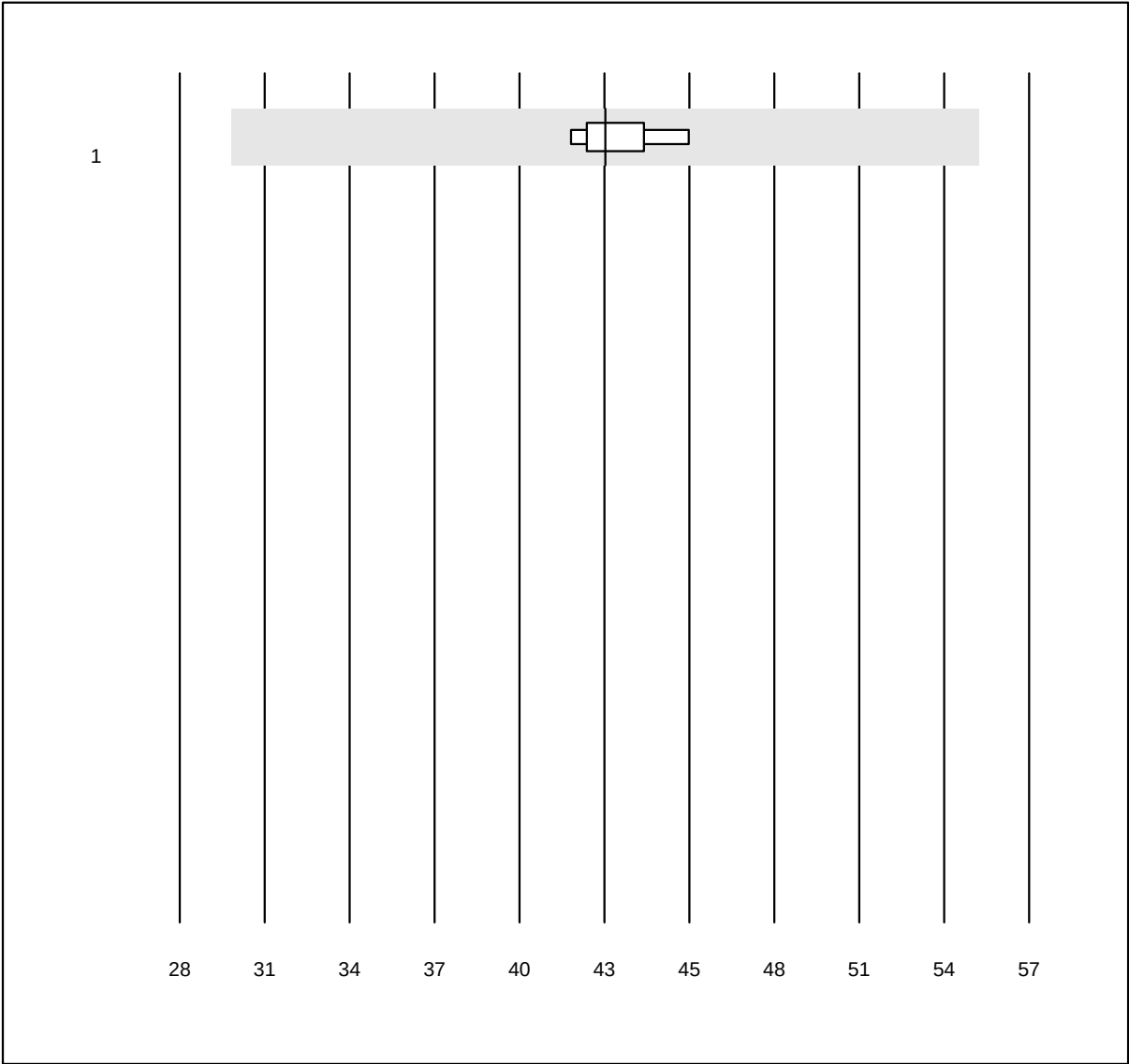


MQ Toleranz: 15%

Keton WB (mmol/l)

| No. Methode           | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Ketosure APEXBIO    | 6     | 100.0 | 0.0       | 0.0       | 2.30         | 6.7  | a*   |
| 2 Statsensor i / Nova | 4     | 75.0  | 25.0      | 0.0       | 1.60         | 11.2 | e*   |

IL6

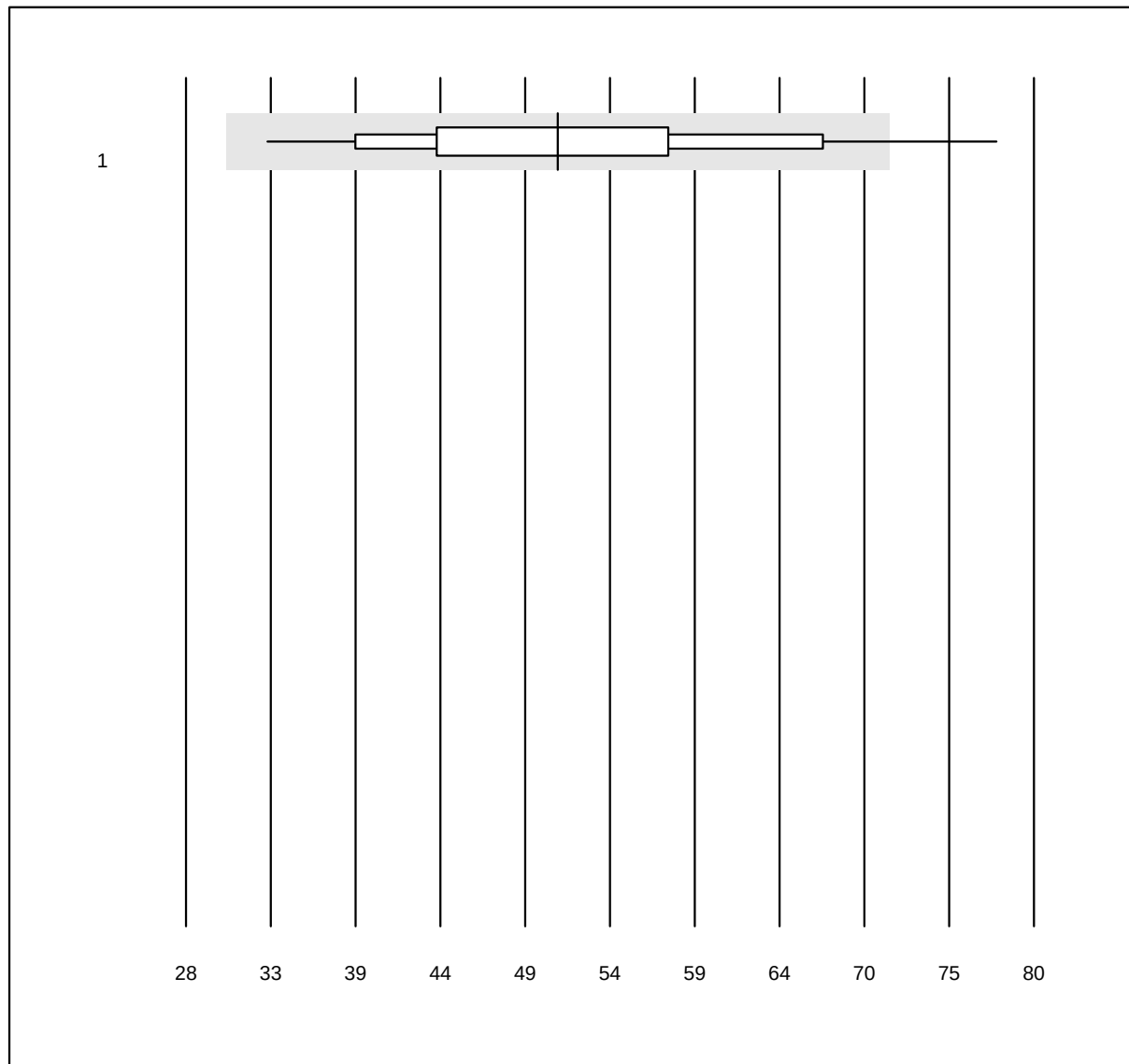


MQ Toleranz: 30%

IL6 (ng/l)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 5     | 100.0 | 0.0       | 0.0       | 42.5         | 2.8  | e    |

## Pankreas Elastase

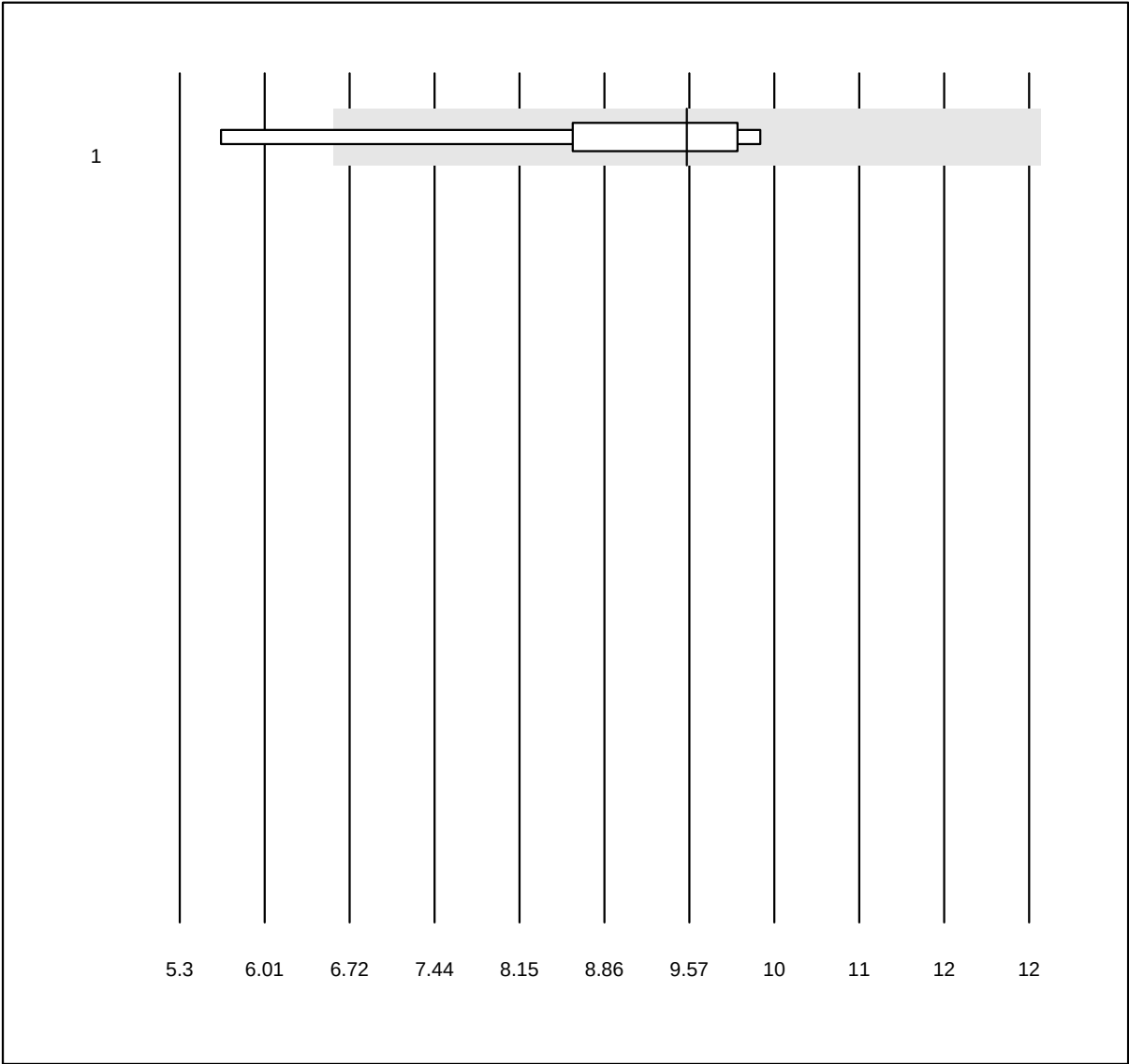


MQ Toleranz: 40%

Pankreas Elastase (ug/g)

| No. Methode |         | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Liaison | 16    | 93.8 | 6.2       | 0.0       | 51           | 21.0 | e*   |

Copeptin

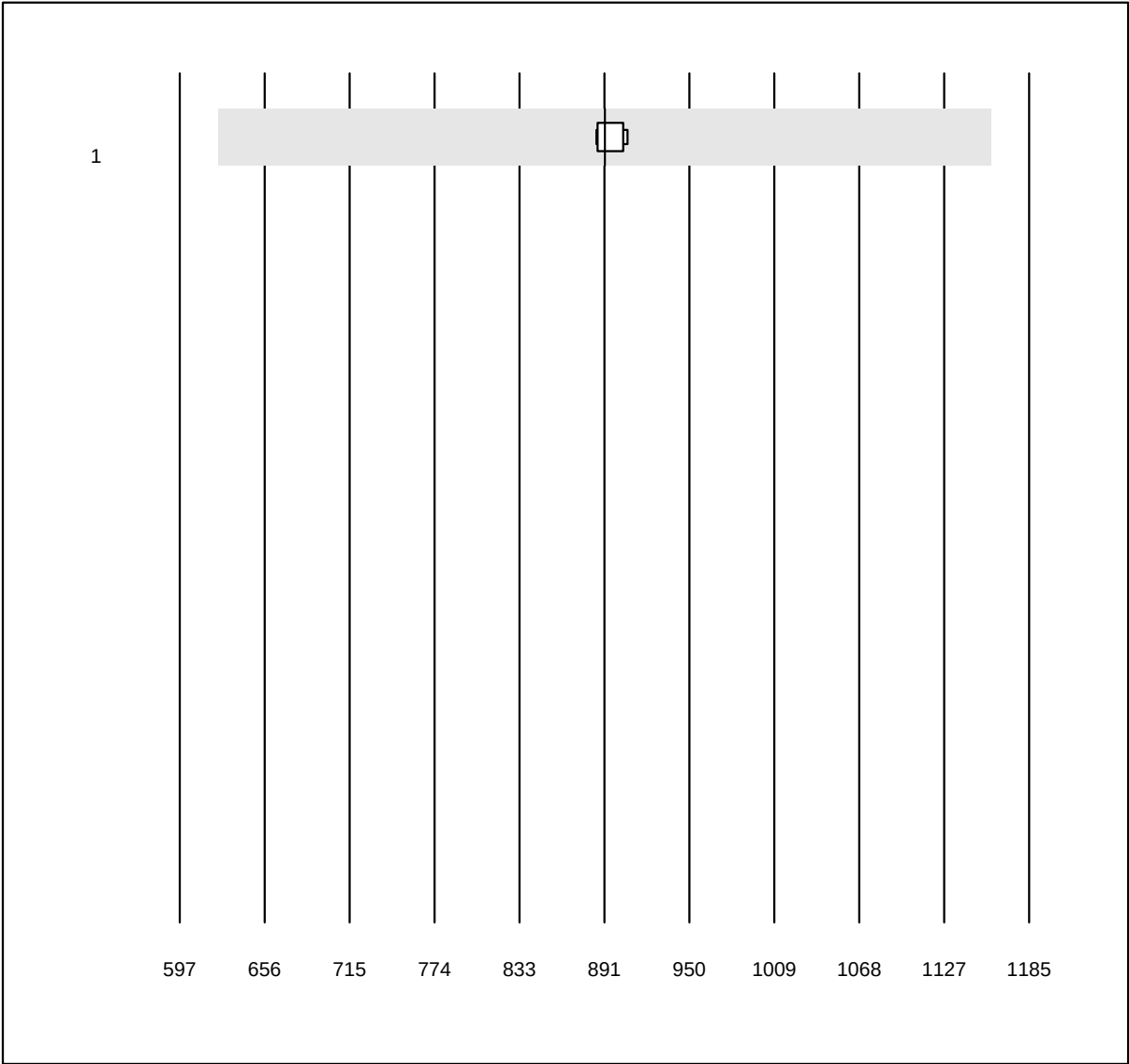


MQ Toleranz: 30%

Copeptin (pmol/l)

| No. Methode |         | Total | % OK | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------|-------|------|-----------|-----------|--------------|------|------|
| 1           | Kryptor | 7     | 85.7 | 14.3      | 0.0       | 9.3          | 15.0 | e*   |

SFIT1



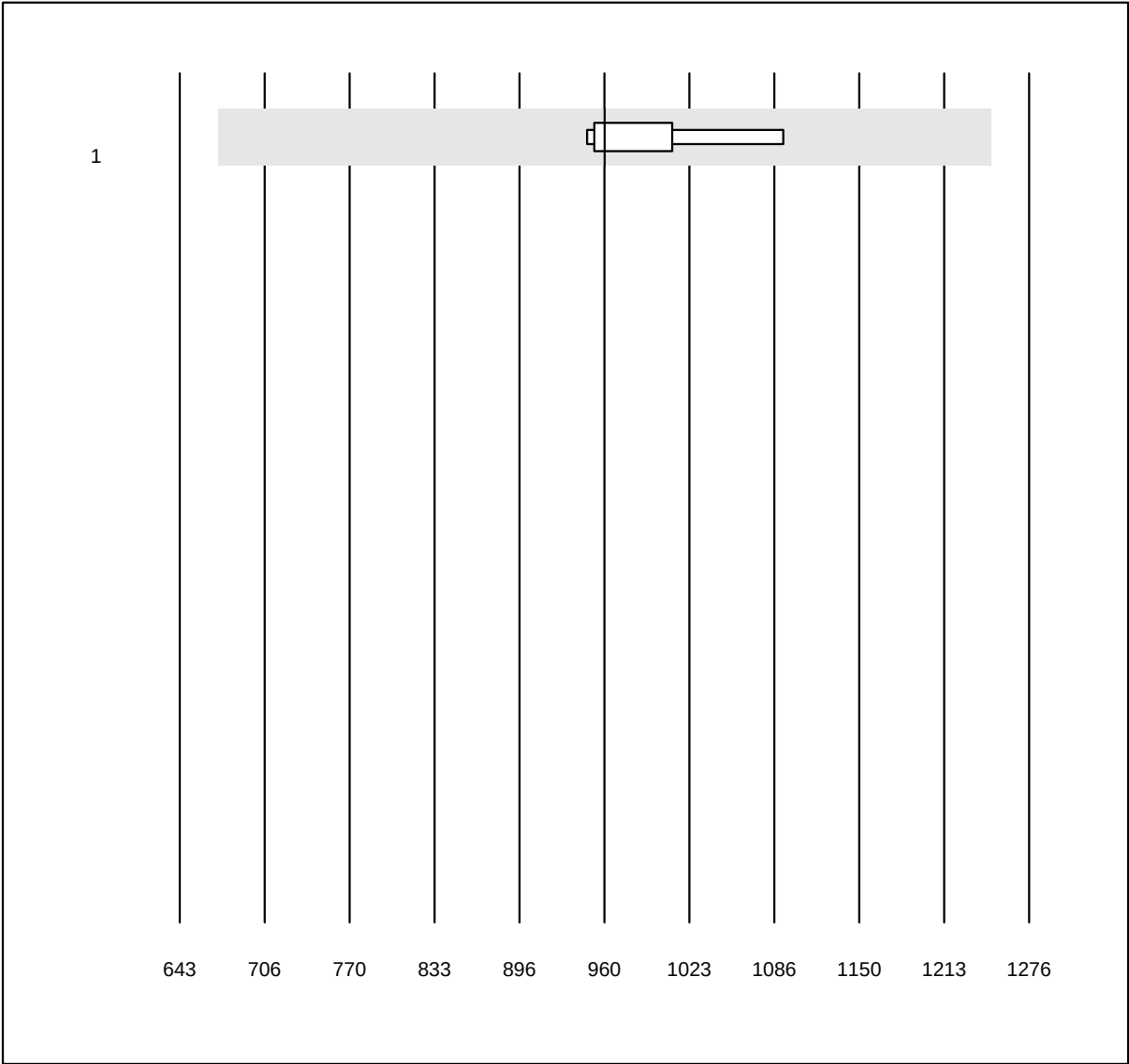
MQ Toleranz: 30%

SFIT1 (pg/ml)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 4     | 100.0 | 0.0       | 0.0       | 891.3        | 1.1  | e    |



PIGF

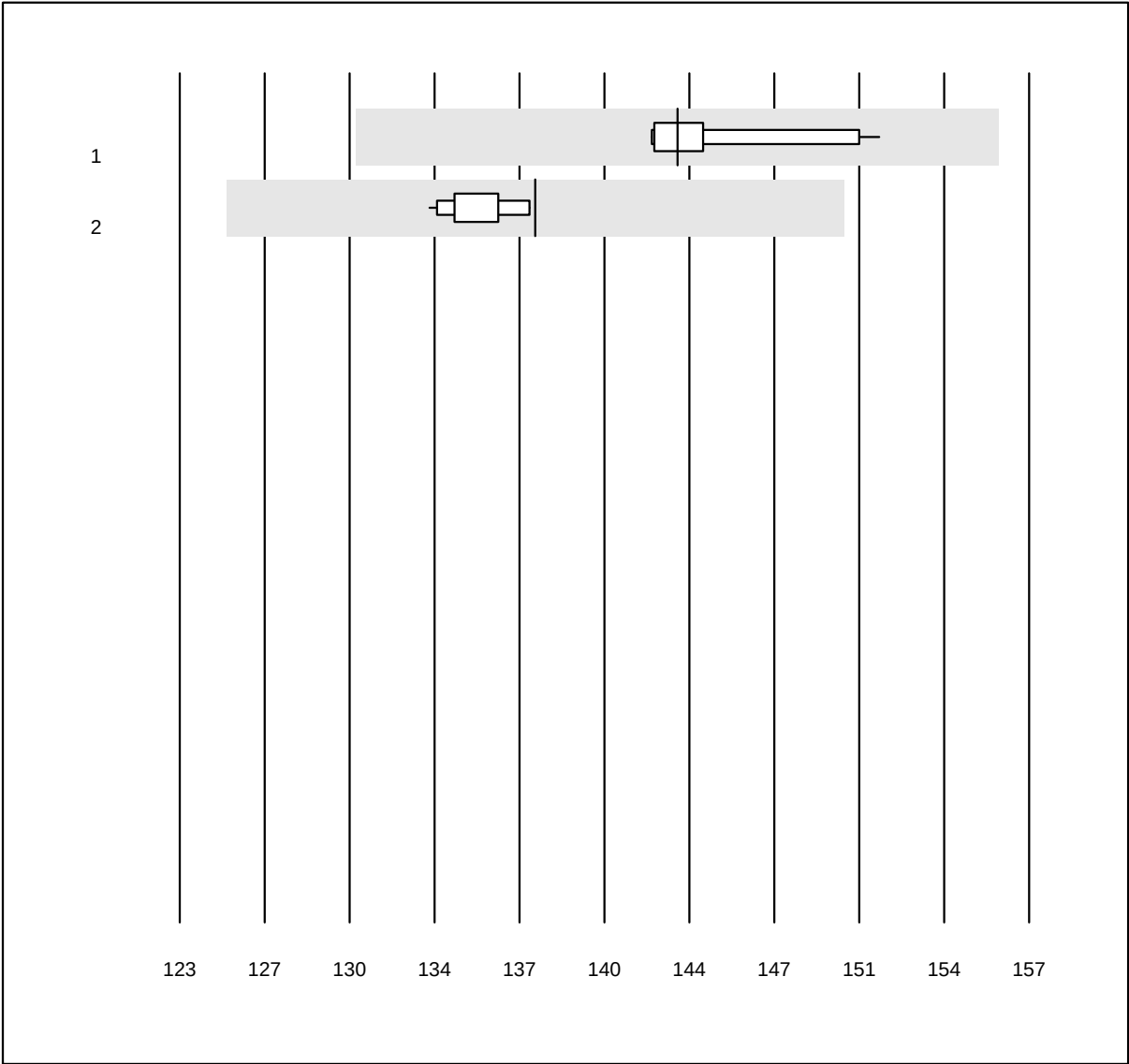


MQ Toleranz: 30%

PIGF (pg/ml)

| No. Methode |       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Roche | 5     | 100.0 | 0.0       | 0.0       | 959.7        | 4.6  | e    |

tHb

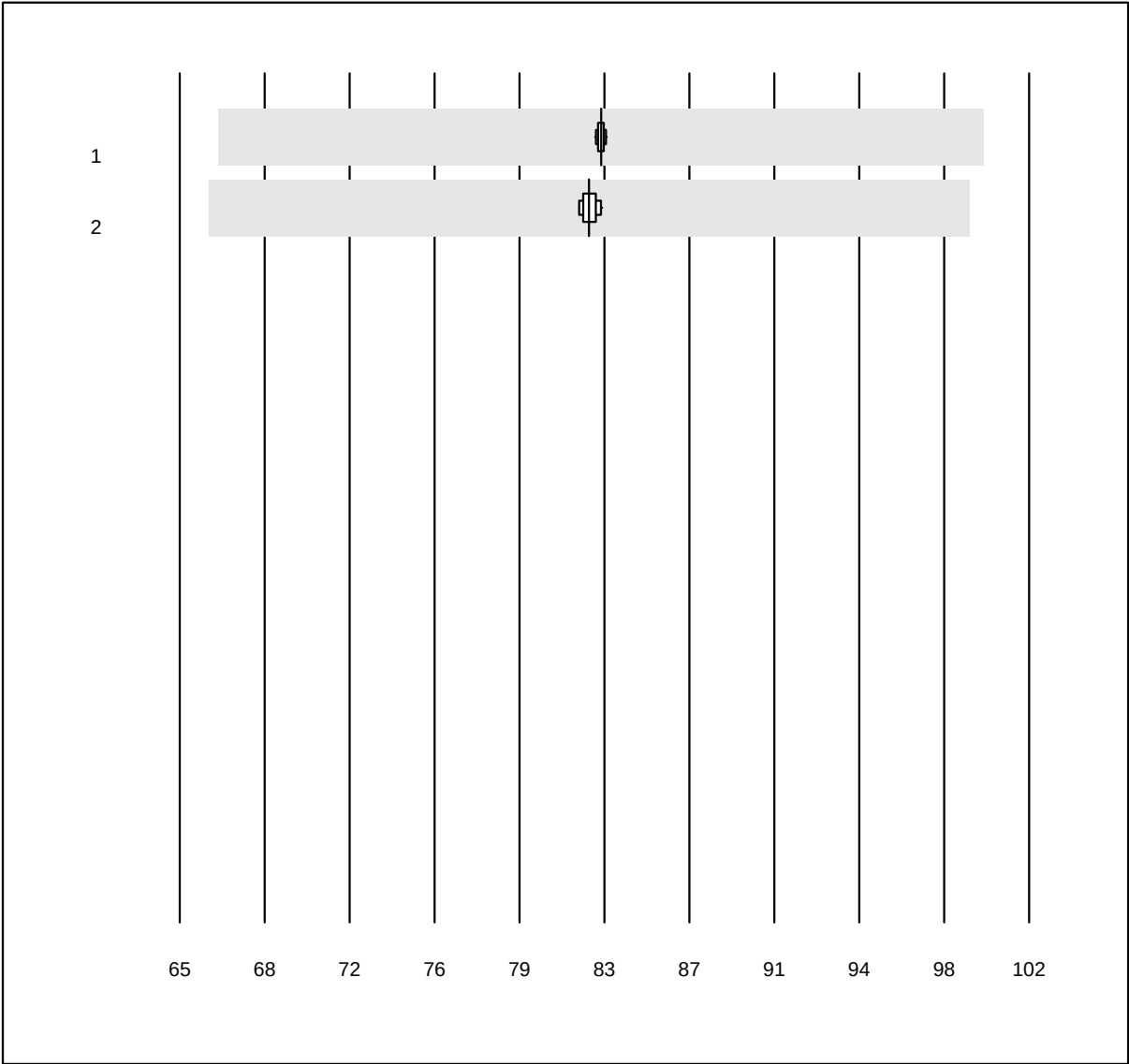


MQ Toleranz: 9%

tHb (g/l)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas b 123 | 17    | 100.0 | 0.0       | 0.0       | 142.9        | 1.8  | e    |
| 2 GEM         | 13    | 92.3  | 0.0       | 7.7       | 137.2        | 0.9  | e    |

O2Hb

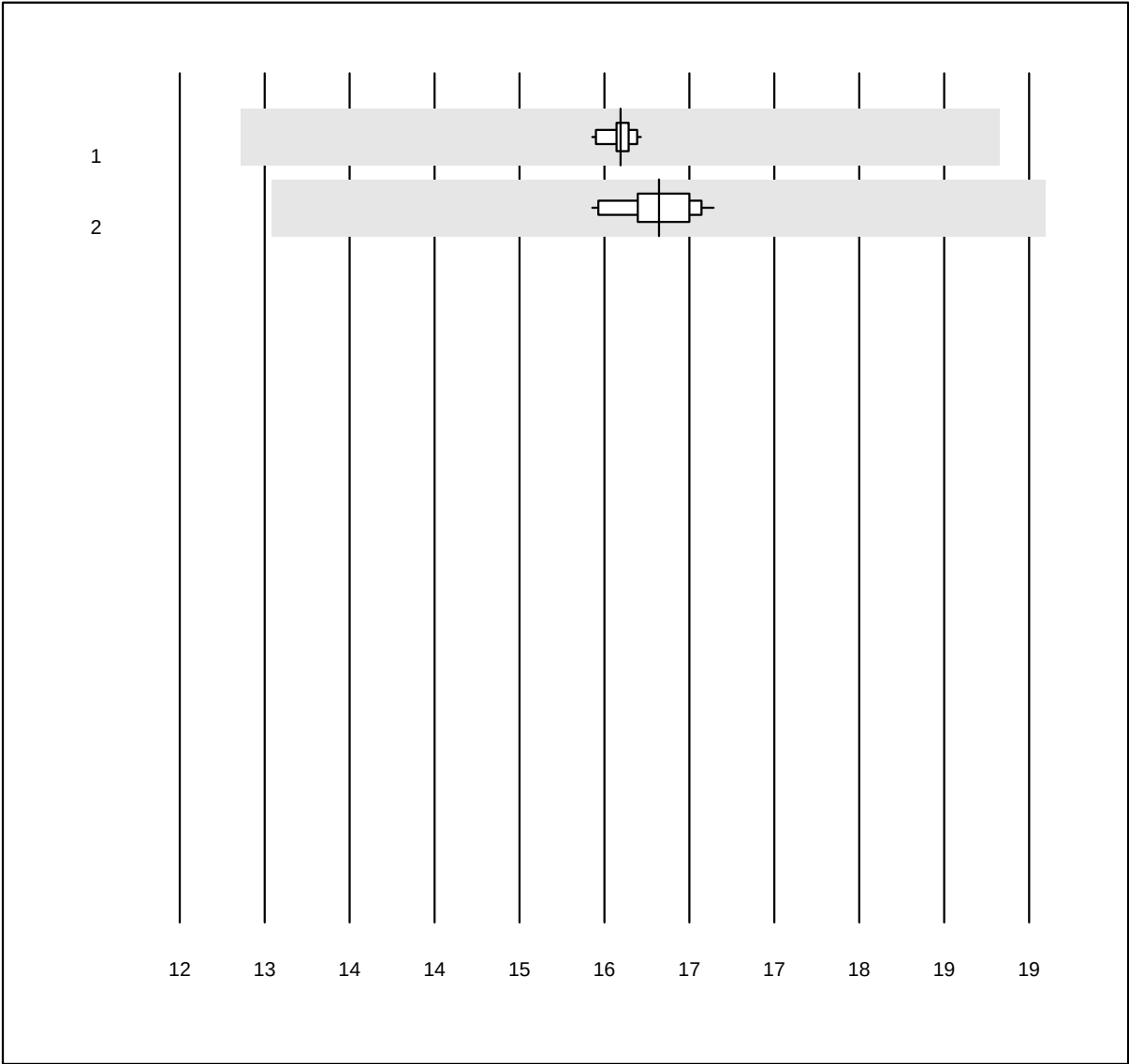


MQ Toleranz: 20%

O2Hb (%)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas b 123 | 12    | 100.0 | 0.0       | 0.0       | 83.4         | 0.2  | e    |
| 2 GEM         | 14    | 100.0 | 0.0       | 0.0       | 82.8         | 0.4  | e    |

COHb



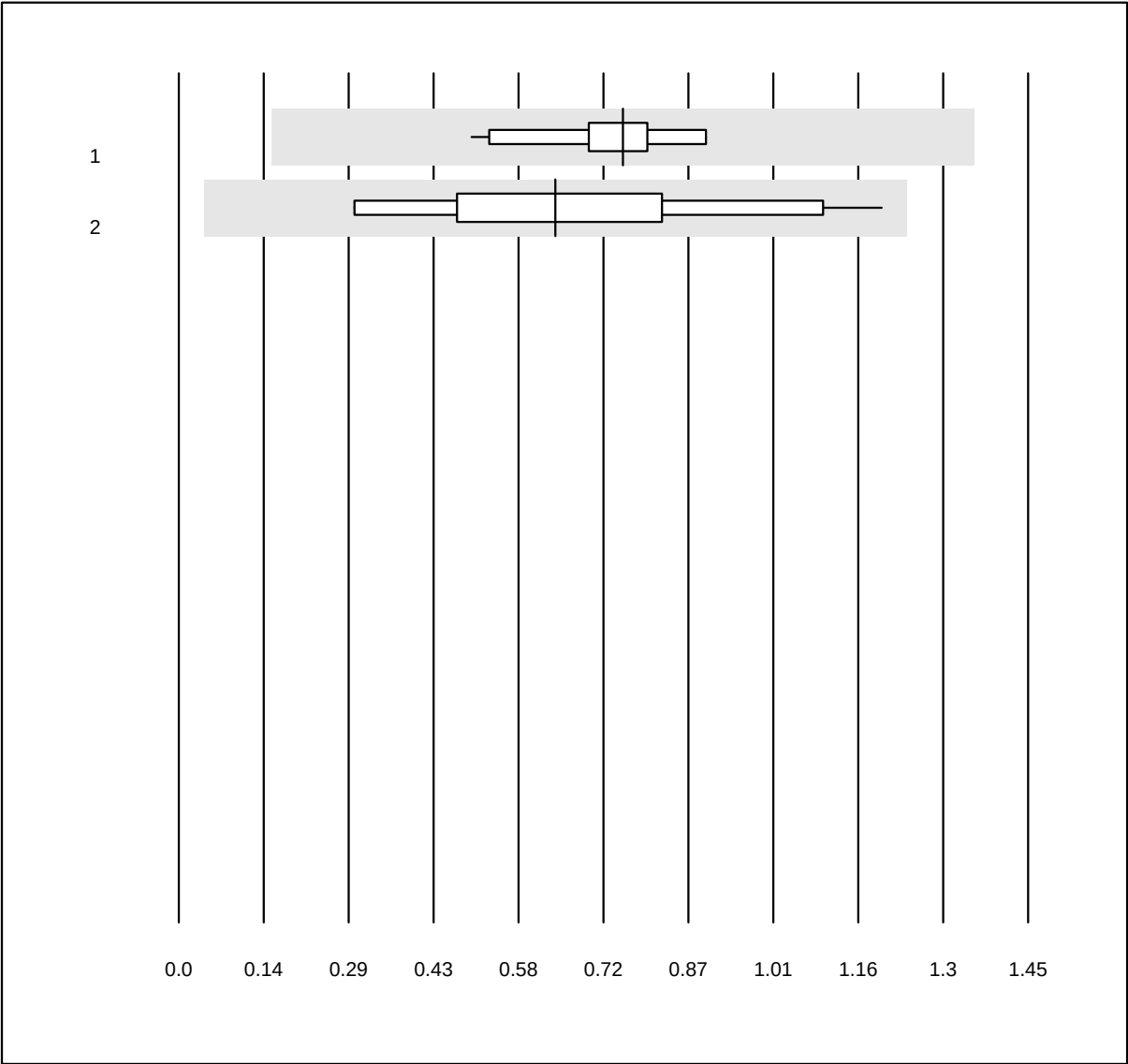
MQ Toleranz: 20%

COHb (%)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas b 123 | 12    | 100.0 | 0.0       | 0.0       | 15.6         | 0.7  | e    |
| 2 GEM         | 14    | 100.0 | 0.0       | 0.0       | 15.9         | 1.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

MetHb

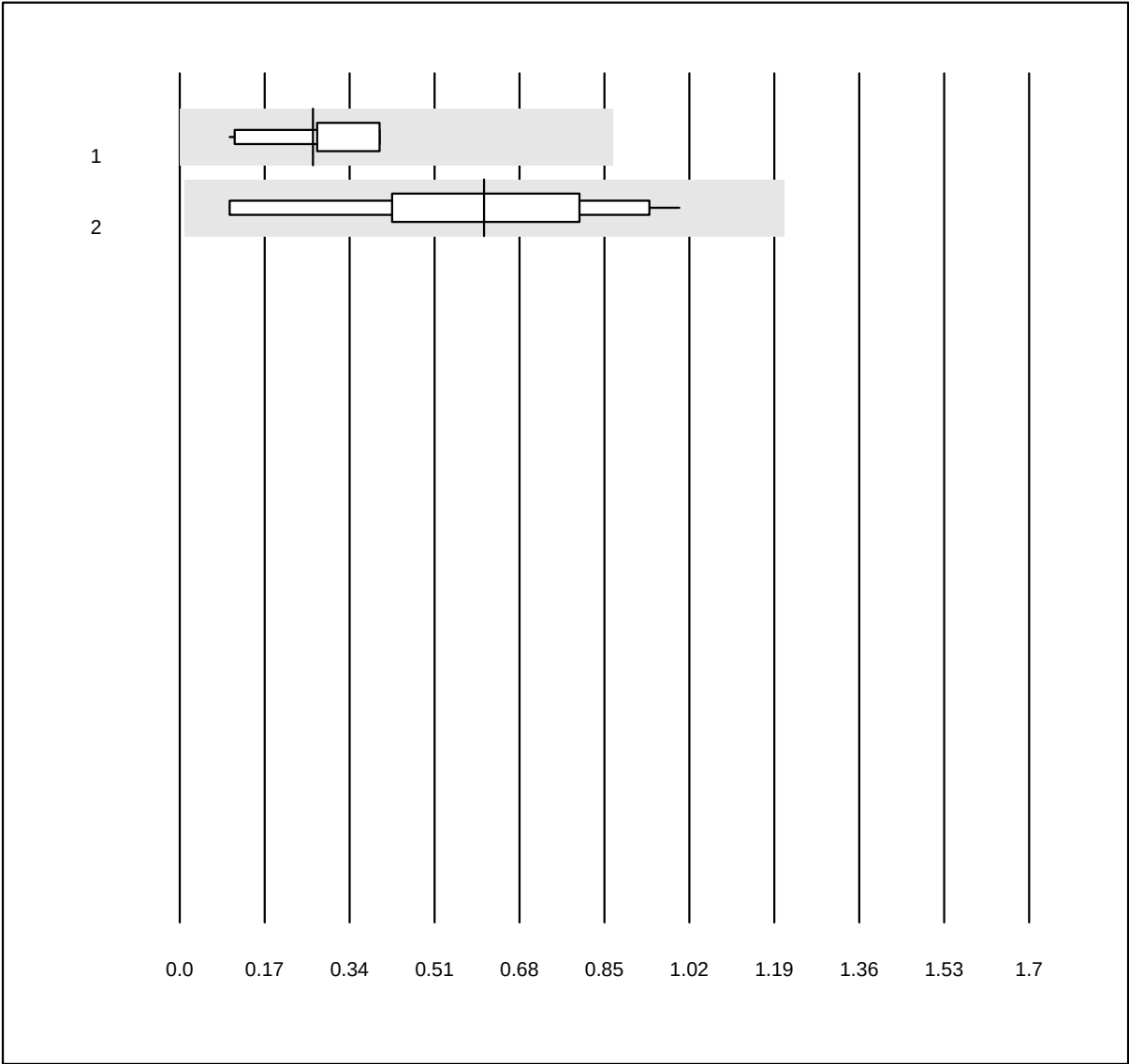


MQ Toleranz: 20%  
( < 3.0: +/- 0.6 %)

MetHb (%)

| No. Methode   | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Cobas b 123 | 12    | 100.0 | 0.0       | 0.0       | 0.8          | 15.4 | e    |
| 2 GEM         | 14    | 100.0 | 0.0       | 0.0       | 0.6          | 41.3 | e    |

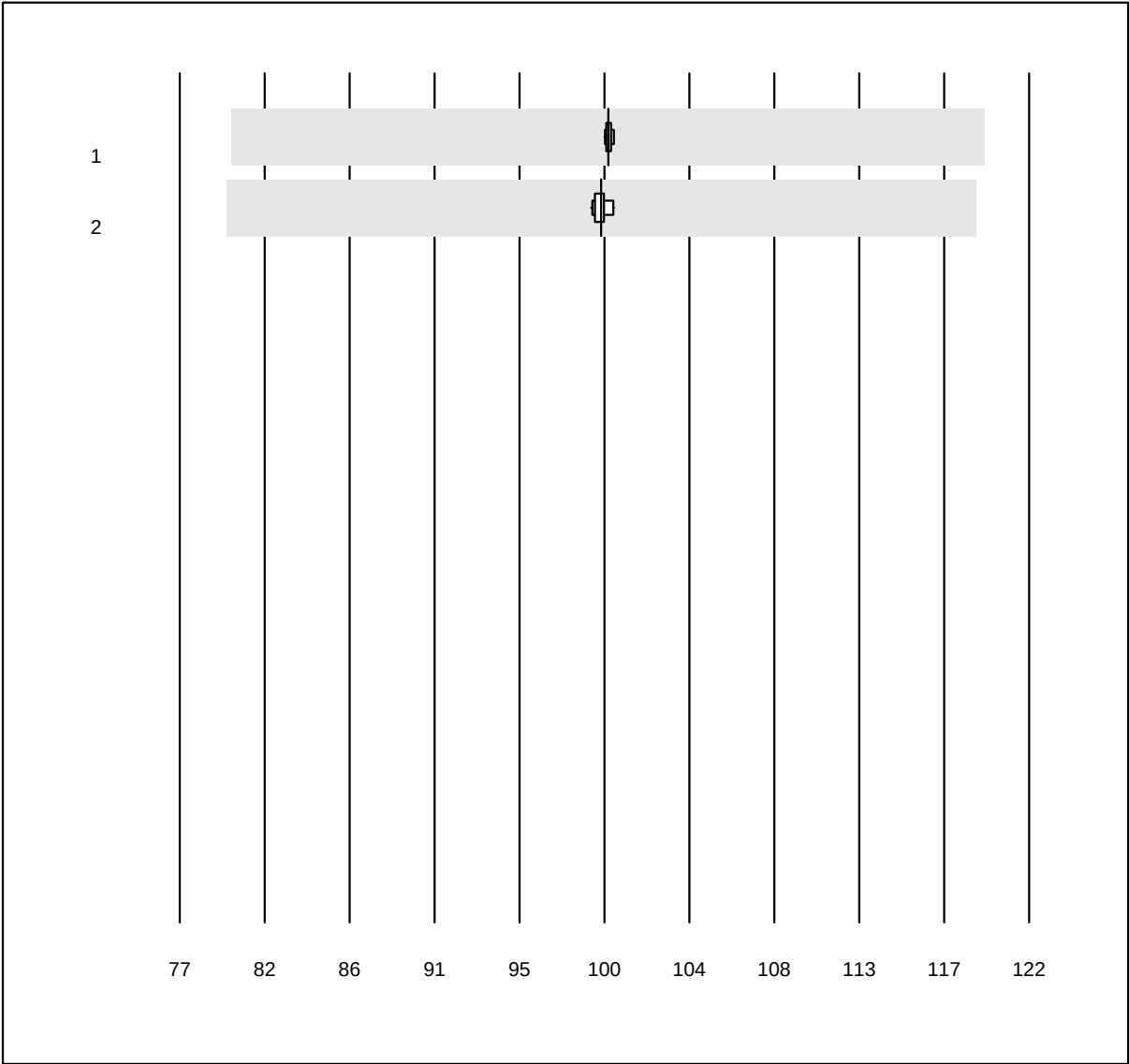
HHb



MQ Toleranz: 20%  
( < 3.0: +/- 0.6 %)

|     |             | HHb (%) |       |           |           |              |      |      |
|-----|-------------|---------|-------|-----------|-----------|--------------|------|------|
| No. | Methode     | Total   | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
| 1   | Cobas b 123 | 10      | 100.0 | 0.0       | 0.0       | 0.3          | 31.4 | e    |
| 2   | GEM         | 12      | 100.0 | 0.0       | 0.0       | 0.6          | 49.0 | e*   |

sO2

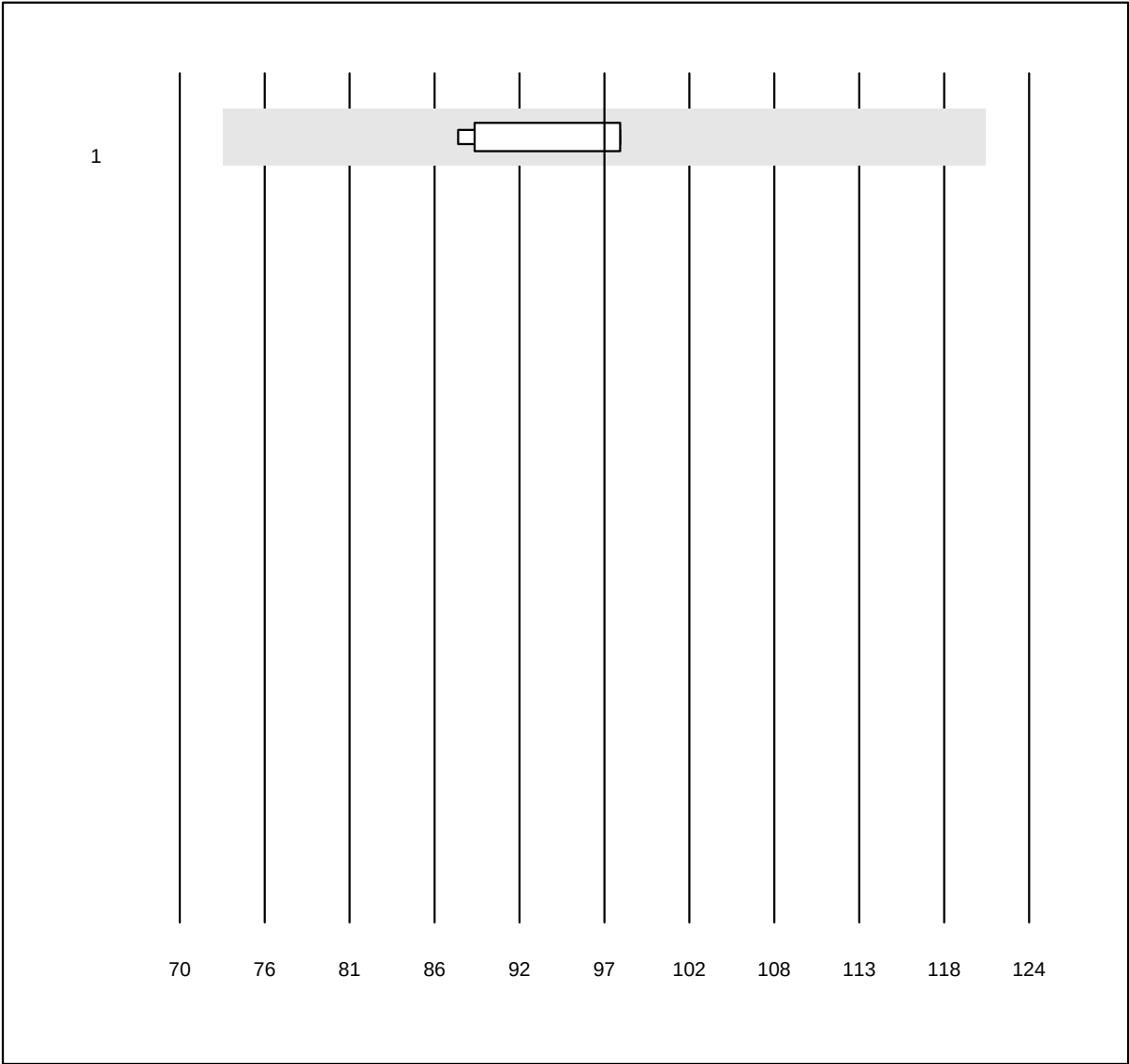


MQ Toleranz: 20%

sO2 (%)

| No. Methode |             | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Cobas b 123 | 12    | 100.0 | 0.0       | 0.0       | 99.7         | 0.2  | e    |
| 2           | GEM         | 12    | 100.0 | 0.0       | 0.0       | 99.3         | 0.4  | e    |

Amylase-Urine



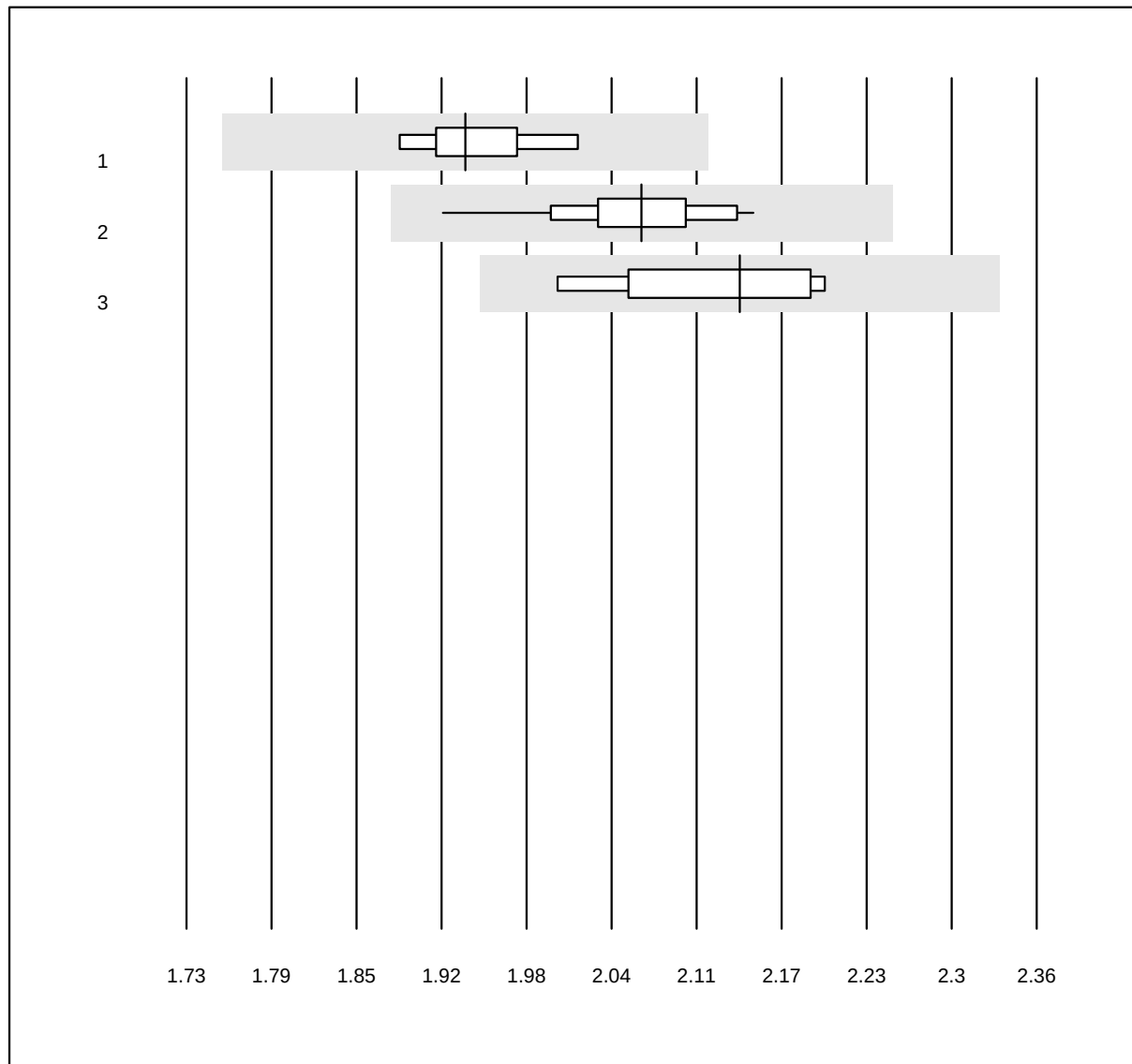
MQ Toleranz: 25%

Amylase-Urine (U/l)

| No. Methode |      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | IFCC | 6     | 100.0 | 0.0       | 0.0       | 97           | 5.0  | e    |



## Calcium-Urine

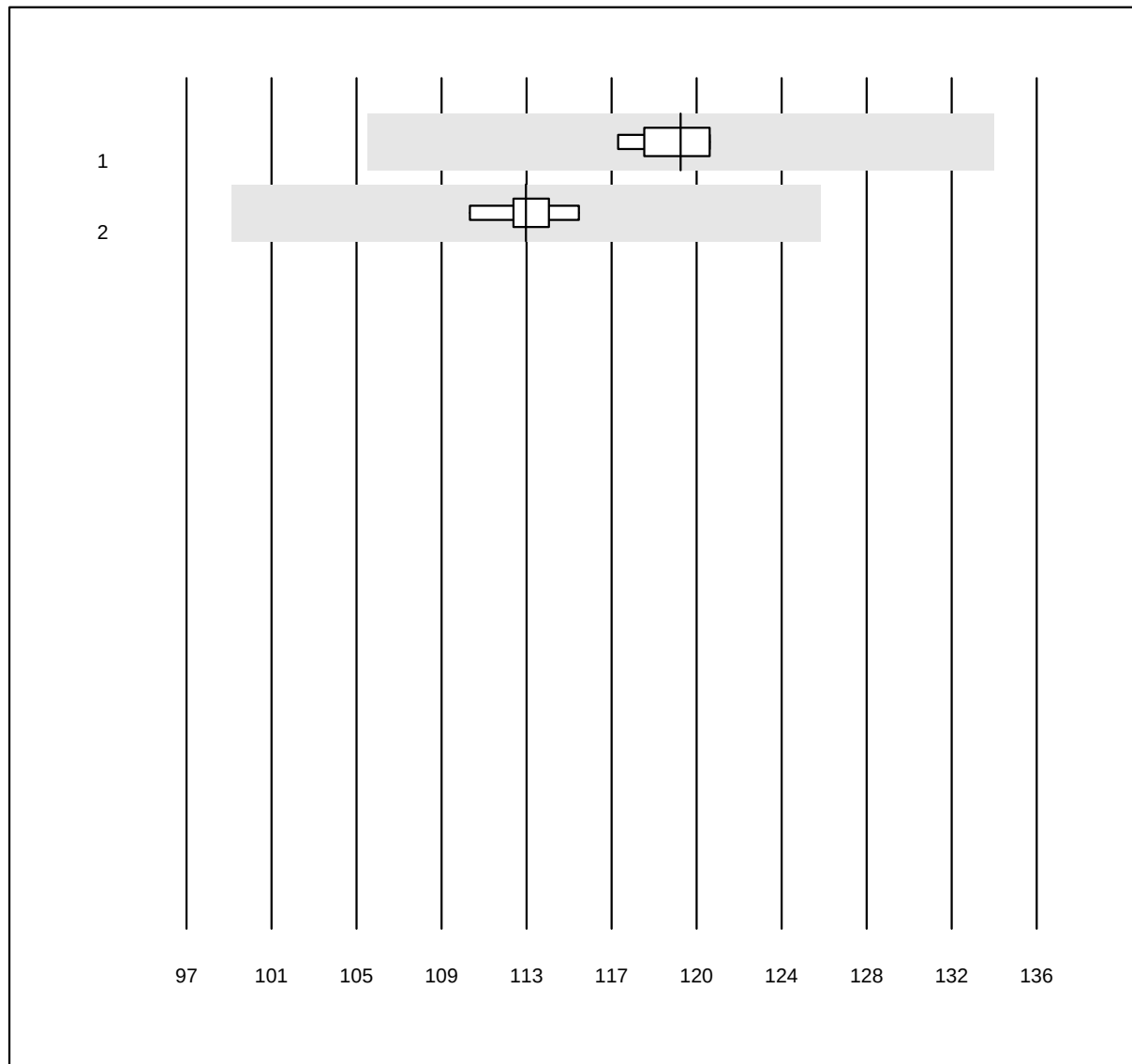


MQ Toleranz: 9%  
( < 2.0: +/- 0.18 mmol/l)

Calcium-Urine (mmol/l)

| No. Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott          | 5     | 100.0 | 0.0       | 0.0       | 1.94         | 1.9  | e    |
| 2 Roche           | 21    | 100.0 | 0.0       | 0.0       | 2.07         | 2.7  | e    |
| 3 andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 2.14         | 3.5  | e*   |

## Chloride-Urine



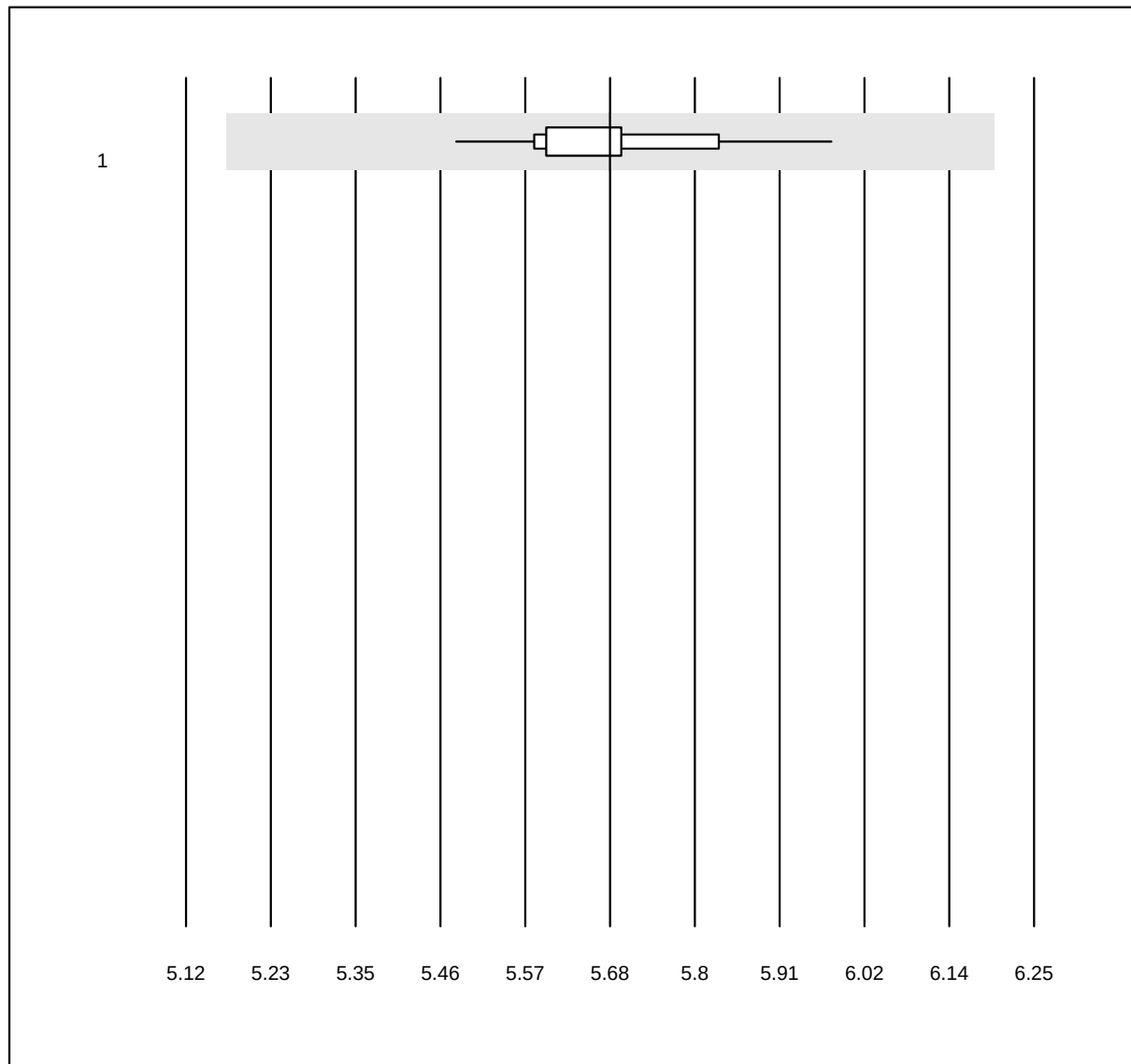
MQ Toleranz: 12%

Chloride-Urine (mmol/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 7     | 100.0 | 0.0       | 0.0       | 120          | 1.3  | e    |
| 2 Roche     | 18    | 100.0 | 0.0       | 0.0       | 113          | 1.3  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Glucose-Urine

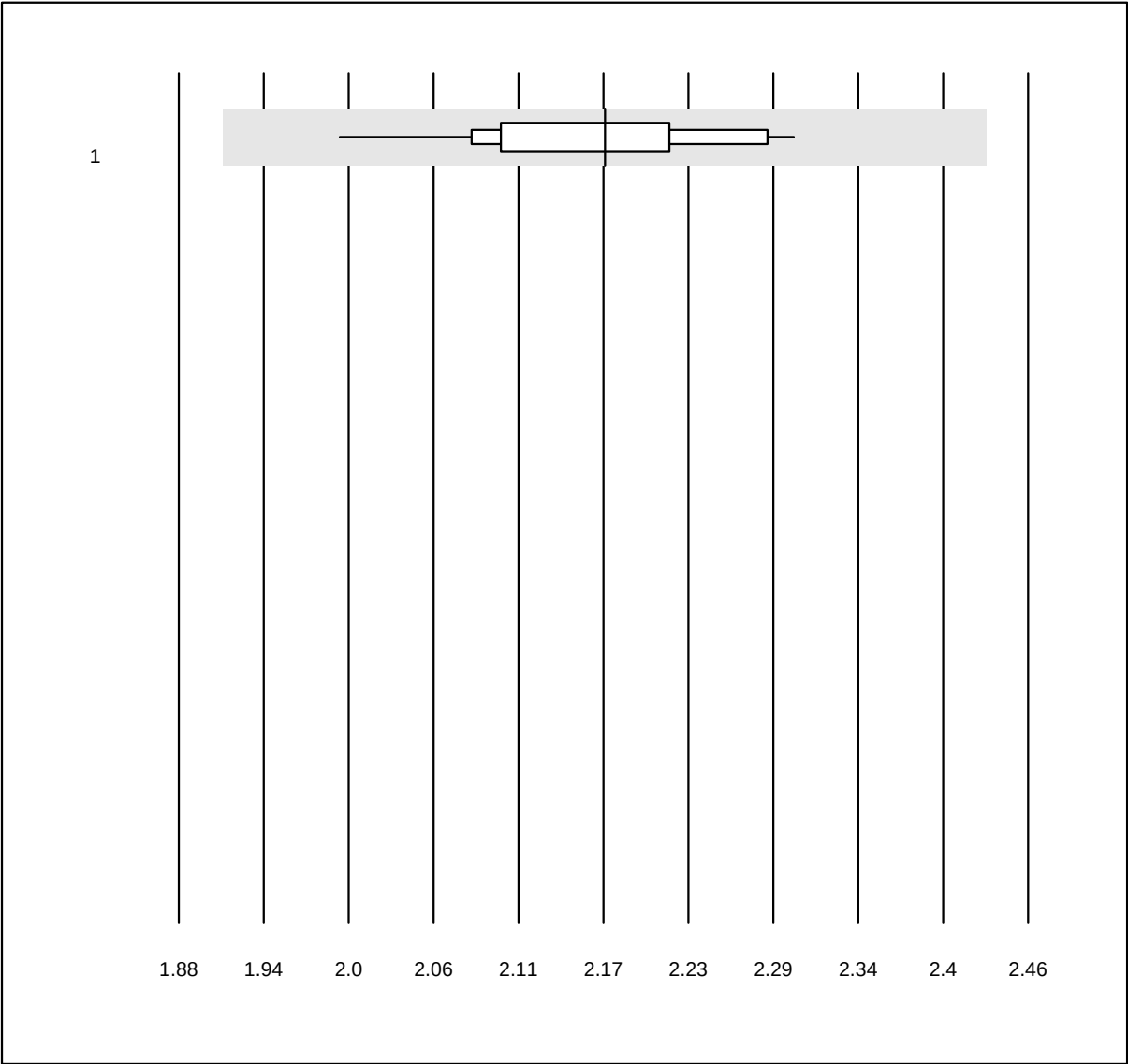


QUALAB Toleranz: 9%

Glucose-Urine (mmol/l)

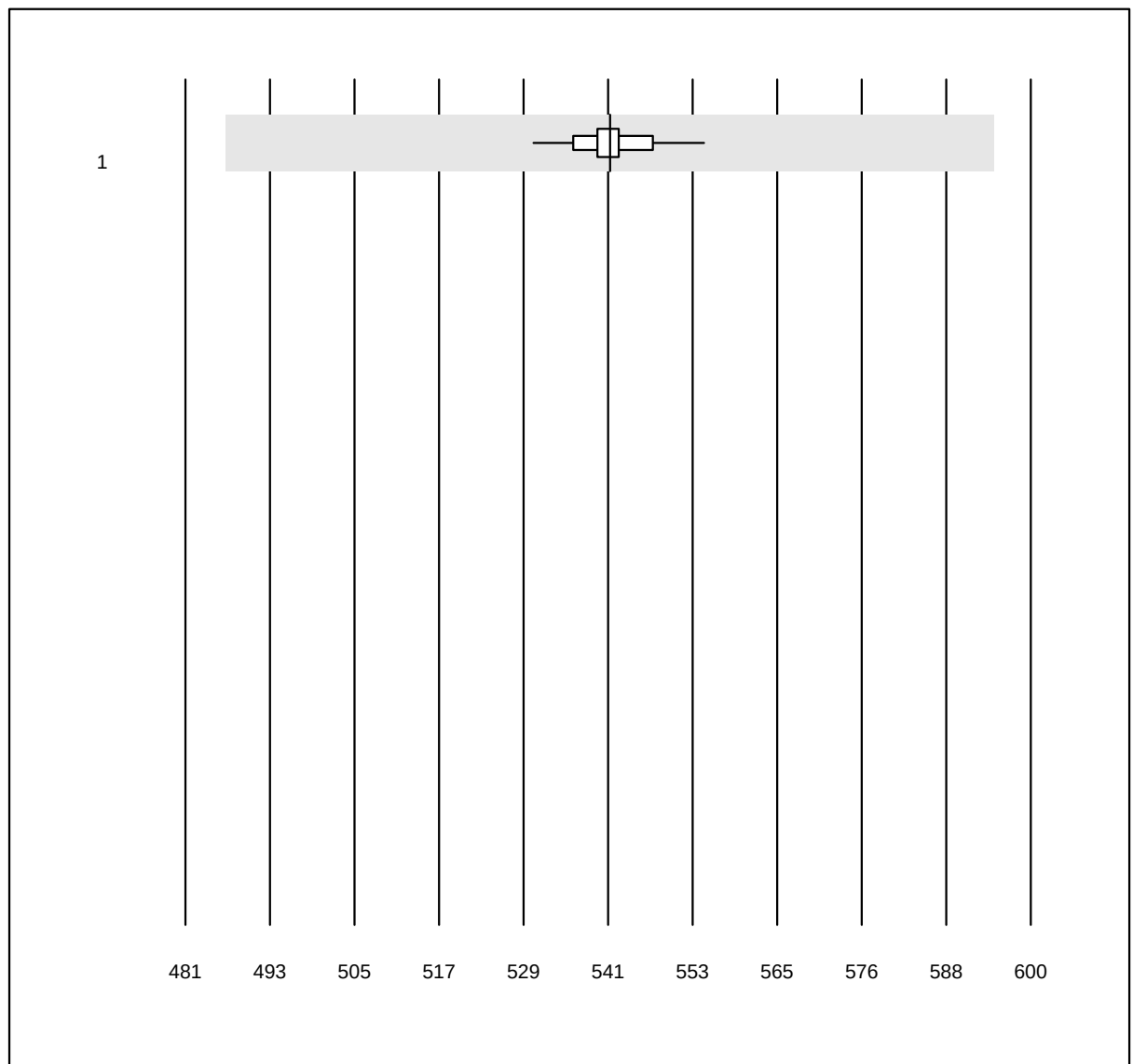
| No. | Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | nasschemisch | 26    | 100.0 | 0.0       | 0.0       | 5.7          | 1.8  | e    |

## Magnesium-Urine



| MQ Toleranz: 12%                                                                                                      |              | Magnesium-Urine (mmol/l) |       |           |           |              |      |      |
|-----------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|-------|-----------|-----------|--------------|------|------|
| No.                                                                                                                   | Methode      | Total                    | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
| 1                                                                                                                     | nasschemisch | 18                       | 100.0 | 0.0       | 0.0       | 2.17         | 3.6  | e    |
| 1 additional results were submitted but not published because the method groups were too small. (< results per group) |              |                          |       |           |           |              |      |      |

## Osmolality-Urine

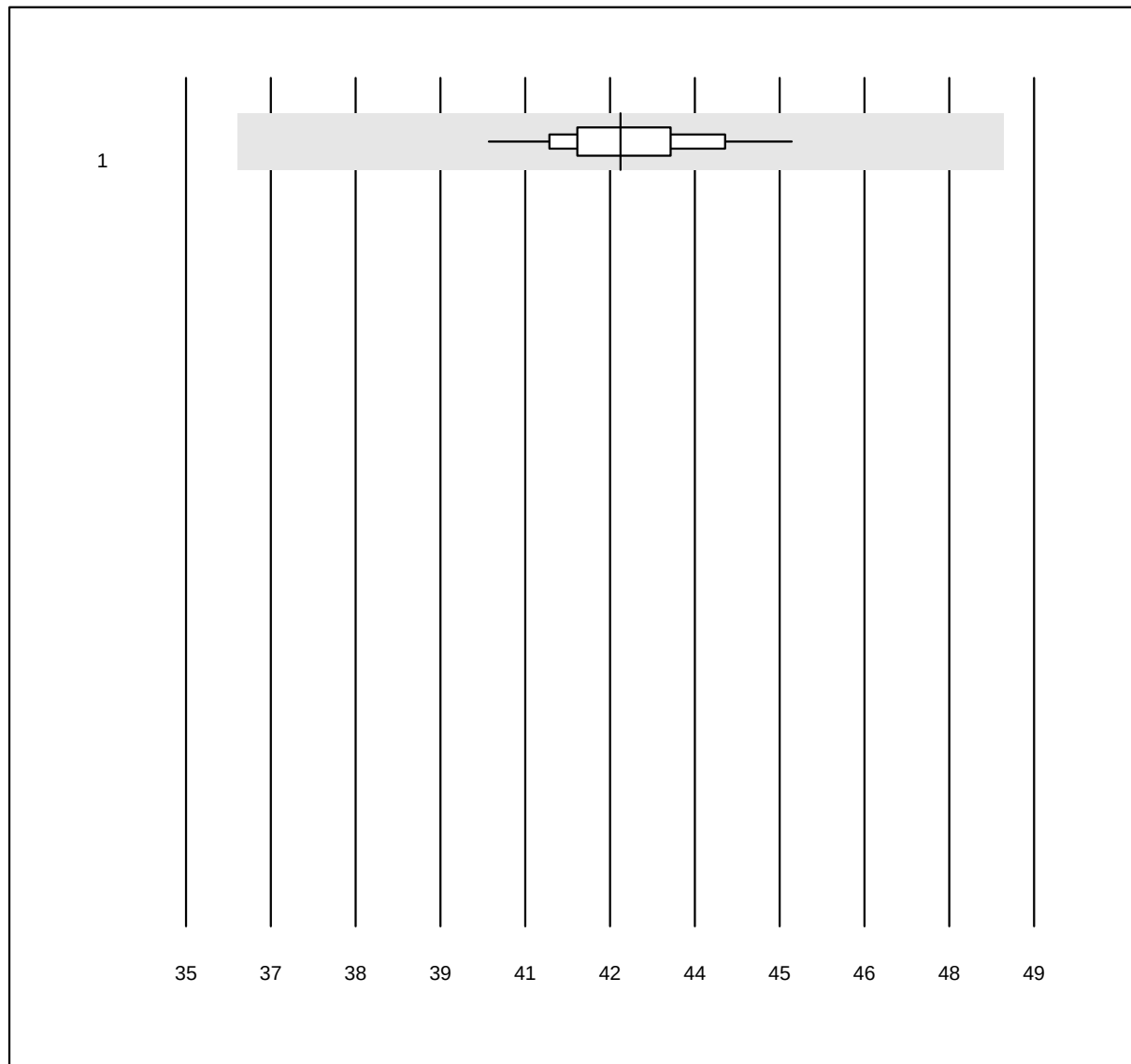


MQ Toleranz: 10%

Osmolality-Urine (mosm/kg)

| No. Methode |            | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Kryoskopie | 23    | 100.0 | 0.0       | 0.0       | 541          | 0.8  | e    |

## Potassium-Urine

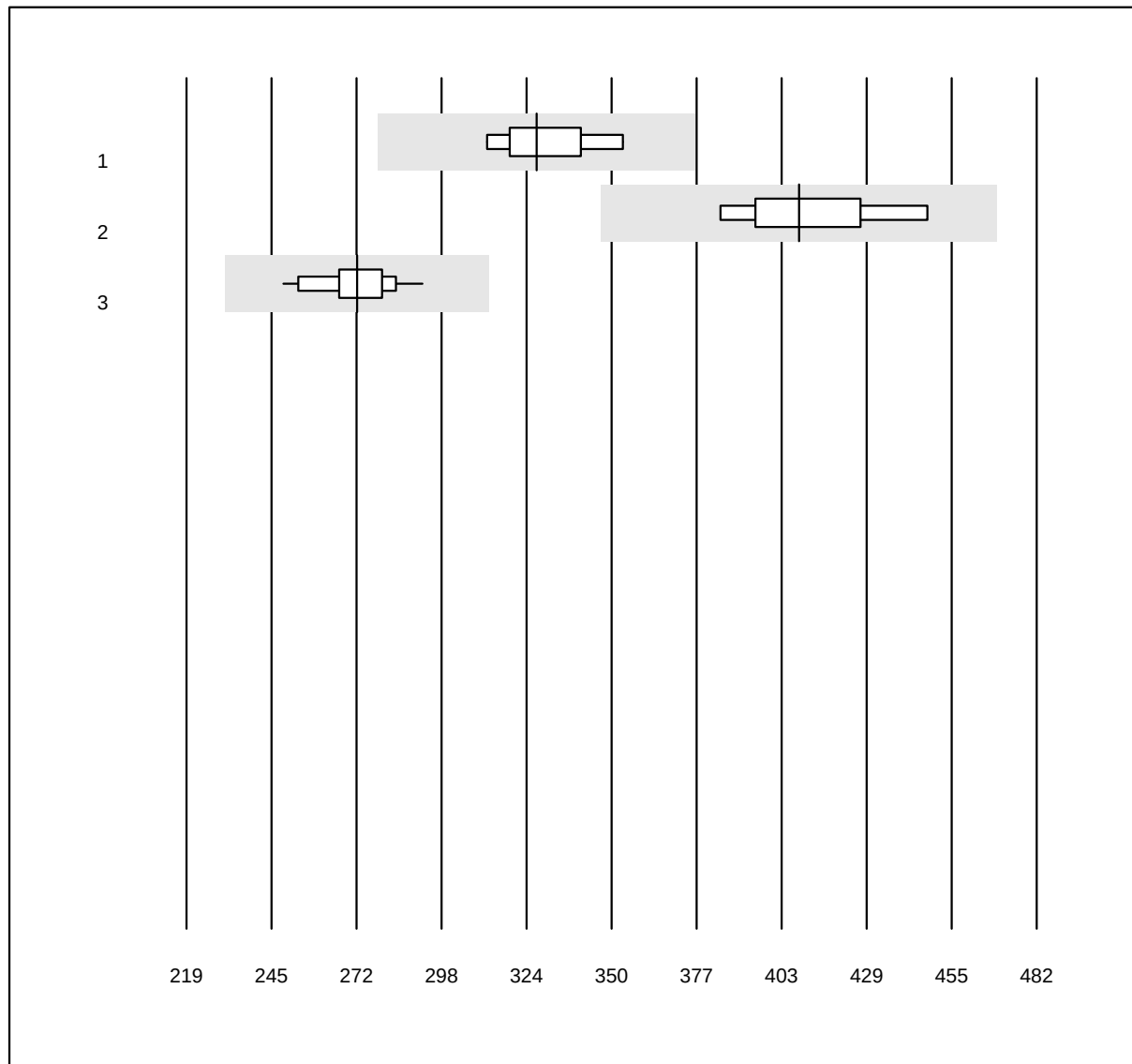


MQ Toleranz: 15%

Potassium-Urine (mmol/l)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 38    | 100.0 | 0.0       | 0.0       | 42           | 2.5  | e    |

## Protein-Urine



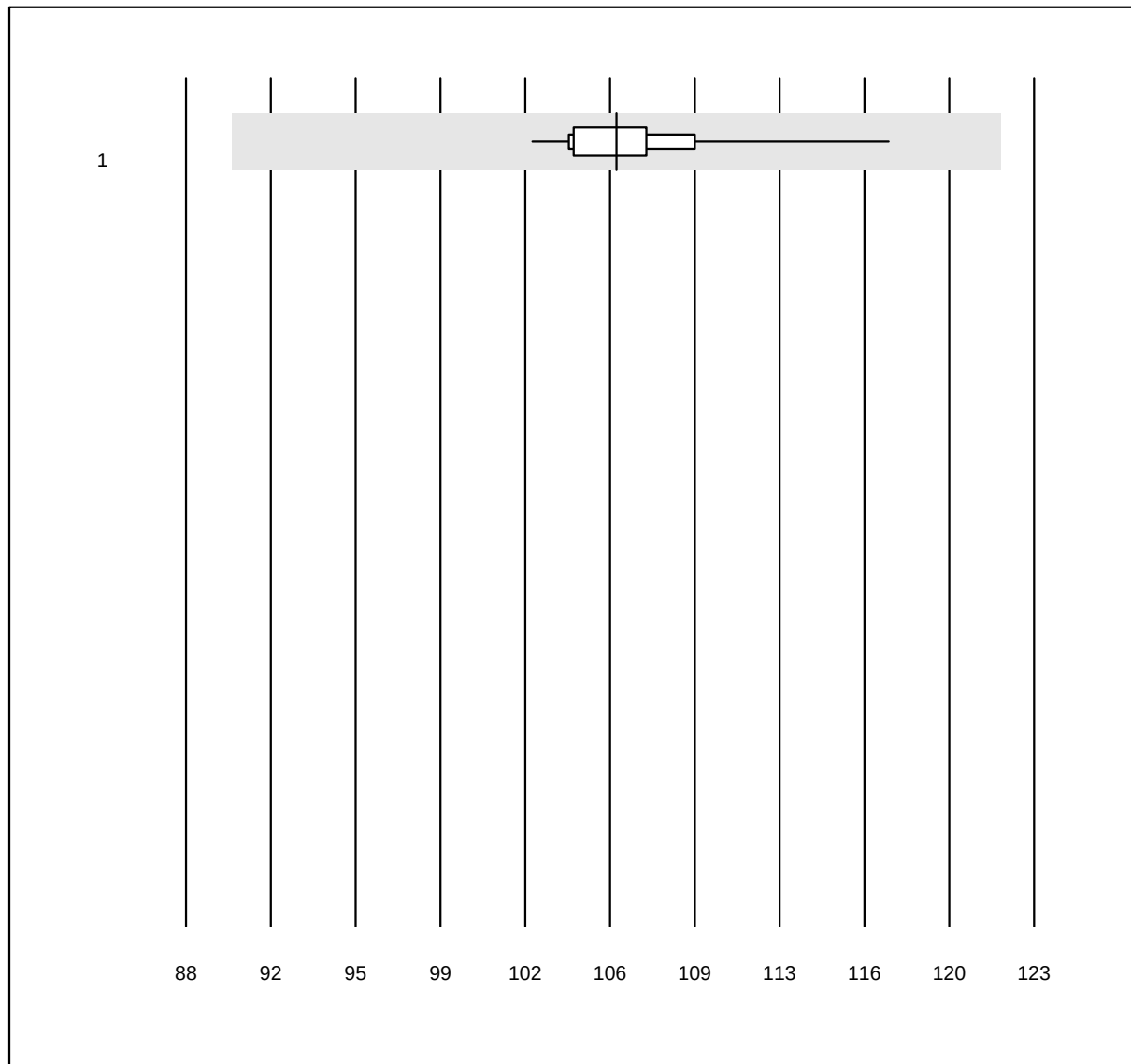
QUALAB Toleranz: 15%

Protein-Urine (mg/l)

| No. Methode | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott    | 9     | 100.0 | 0.0       | 0.0       | 327.3        | 4.2  | e    |
| 2 Dimension | 5     | 100.0 | 0.0       | 0.0       | 408.5        | 4.6  | e*   |
| 3 Roche     | 28    | 100.0 | 0.0       | 0.0       | 271.8        | 3.8  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Sodium-Urine



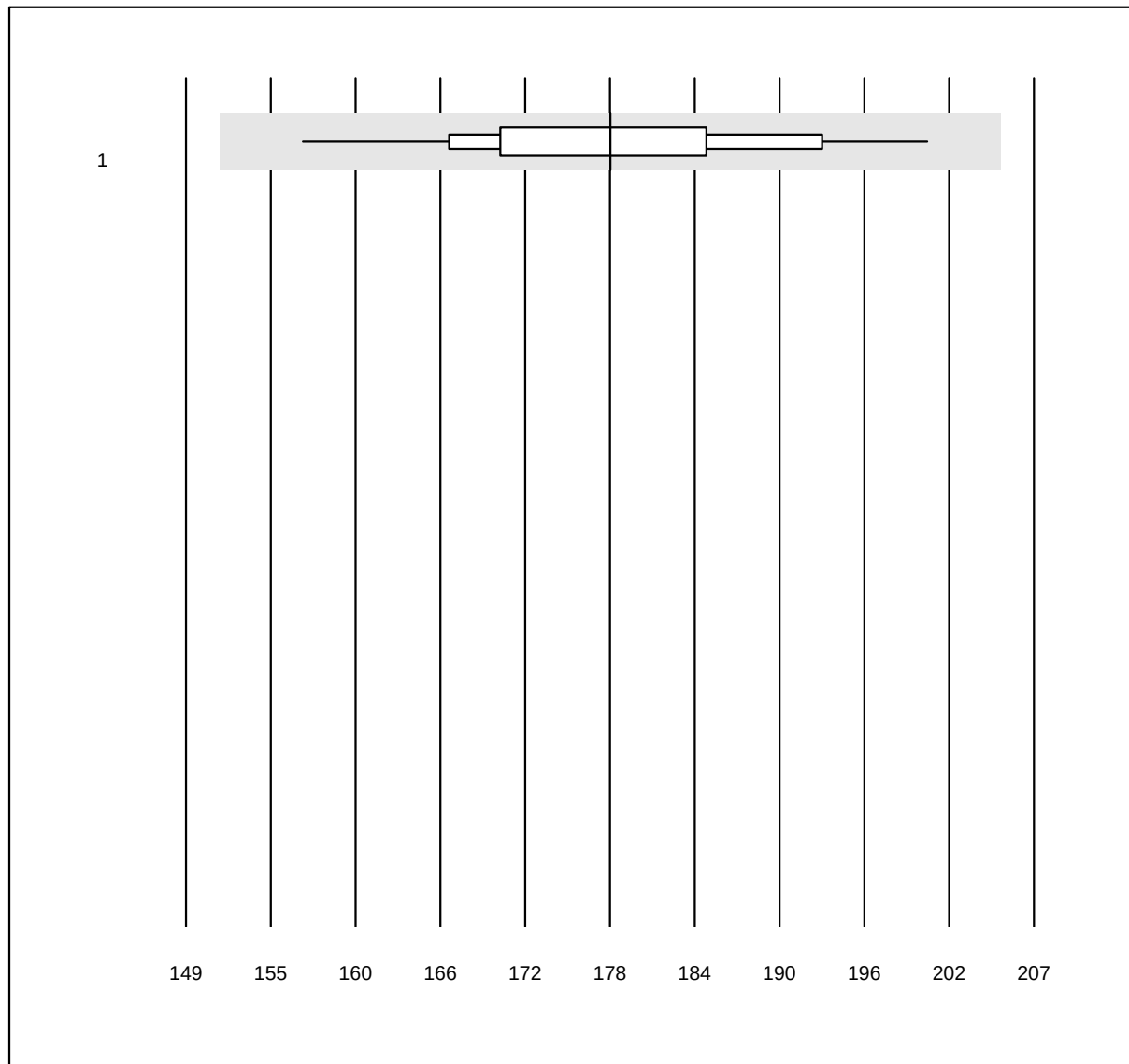
MQ Toleranz: 15%

Sodium-Urine (mmol/l)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alle Methoden | 37    | 100.0 | 0.0       | 0.0       | 106          | 2.5  | e    |



## Urea-Urine



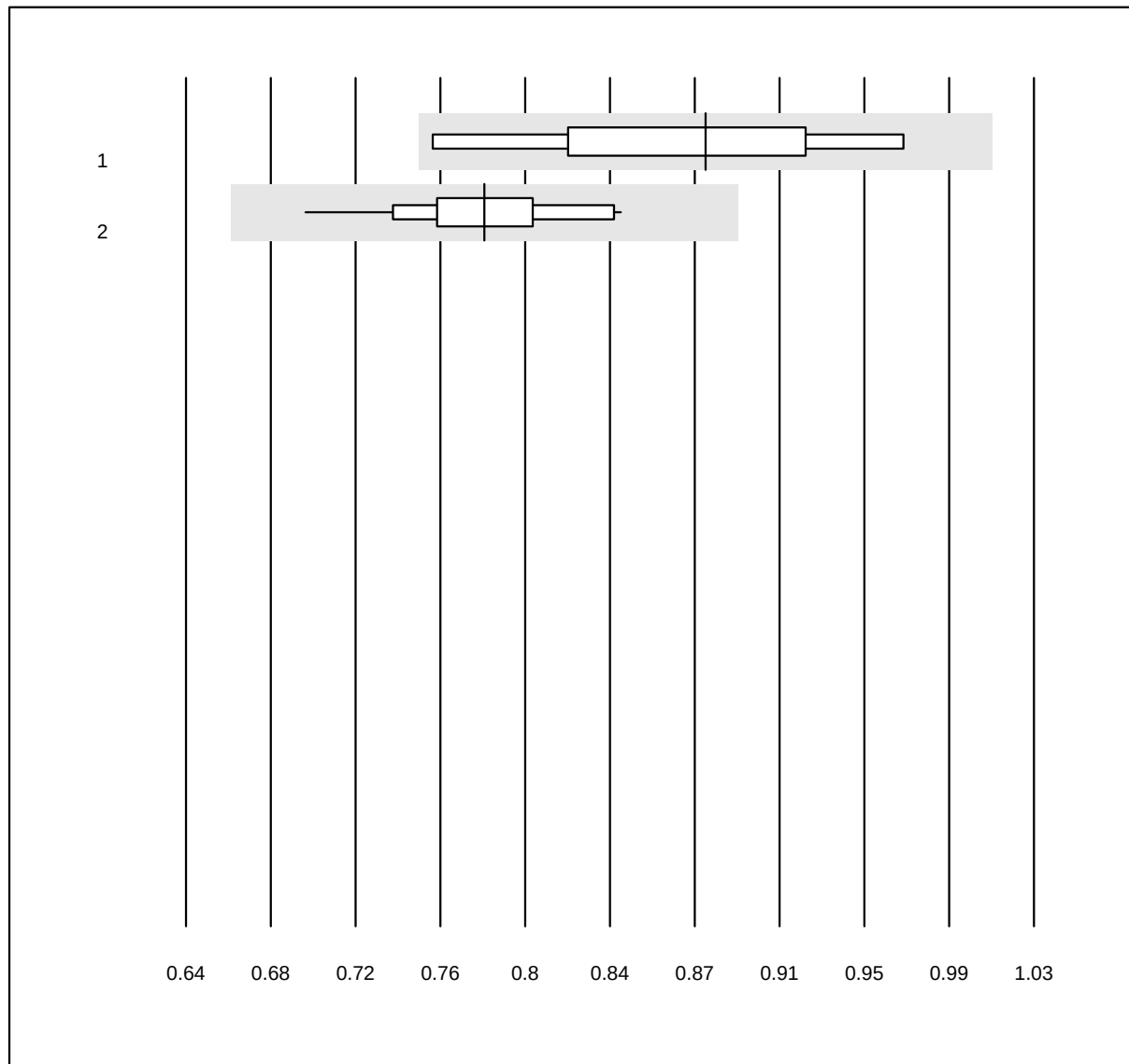
MQ Toleranz: 15%

Urea-Urine (mmol/l)

| No. | Methode      | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | nasschemisch | 36    | 100.0 | 0.0       | 0.0       | 178          | 5.5  | e    |

1 additional results were submitted but not published because the method groups were too small. (< results per group)

## Uric Acid-Urine

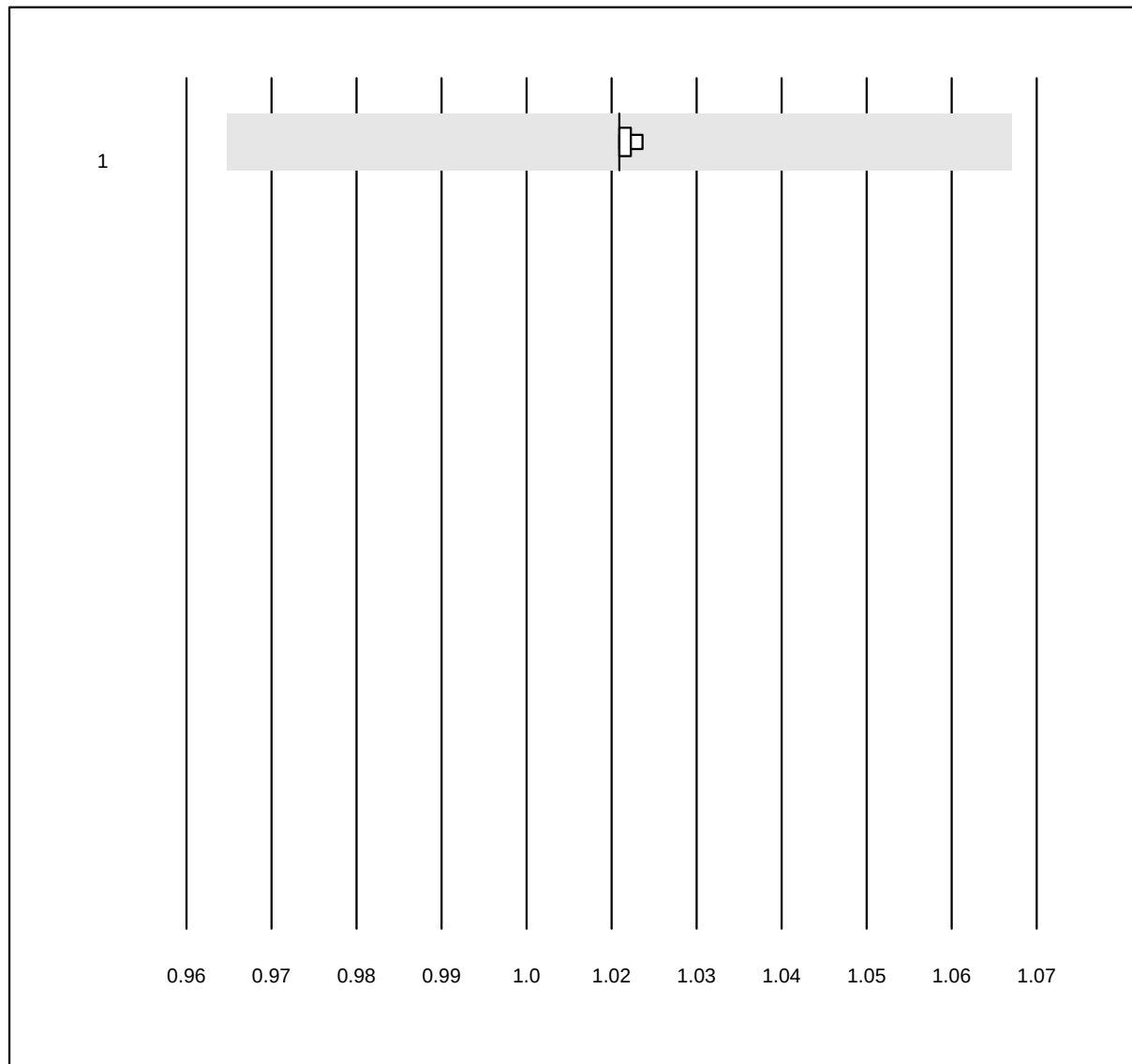


MQ Toleranz: 15%

Uric Acid-Urine (mmol/l)

| No. Methode    | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Siemens      | 4     | 100.0 | 0.0       | 0.0       | 0.88         | 6.8  | e*   |
| 2 nasschemisch | 25    | 100.0 | 0.0       | 0.0       | 0.78         | 4.4  | e    |

## Specific Gravity-Urine

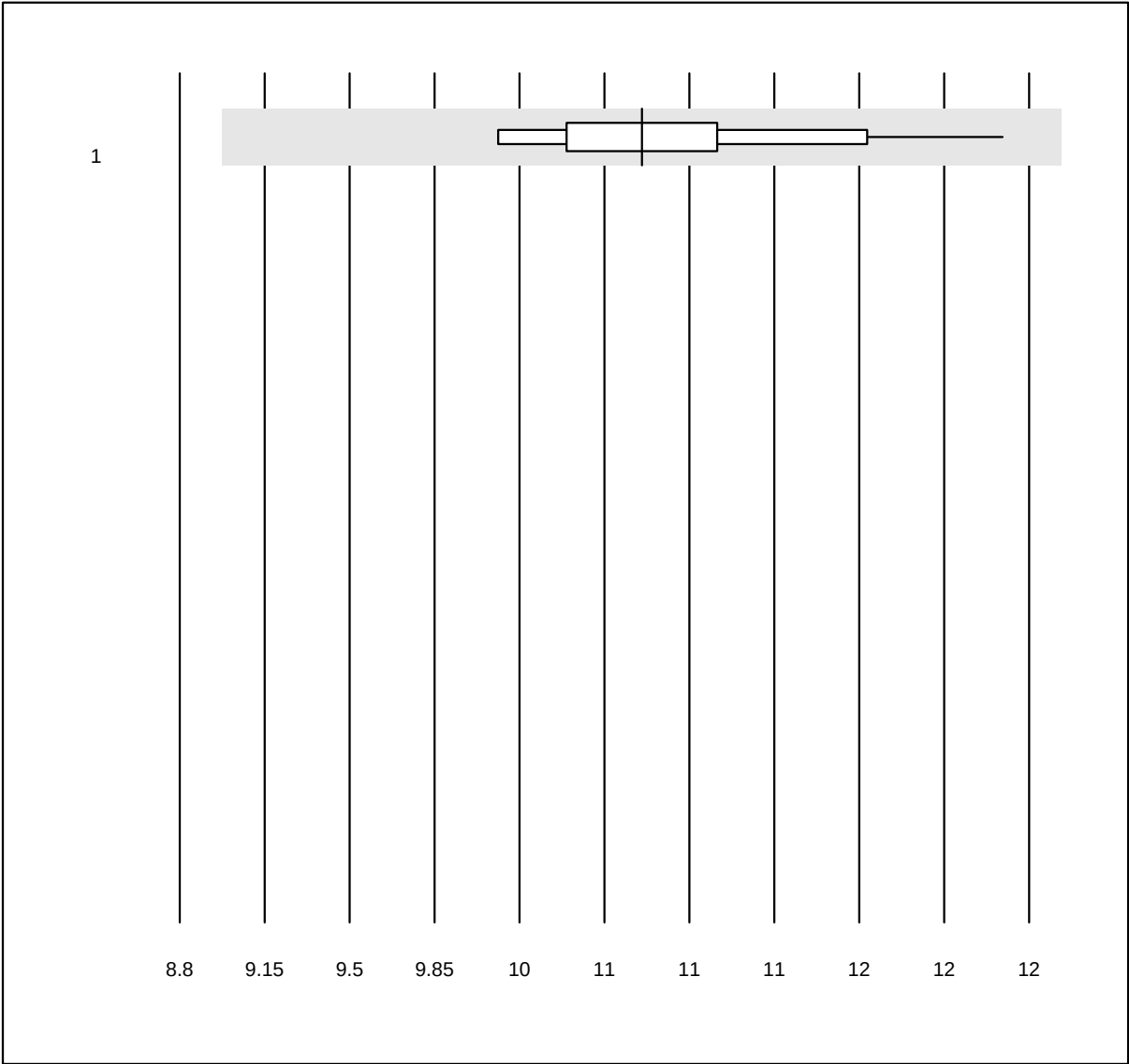


MQ Toleranz: 5%

Specific Gravity-Urine  
(g/ml)

| No. | Methode       | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1   | Refraktometer | 4     | 100.0 | 0.0       | 0.0       | 1.016        | 0.1  | e    |

Phosphate-Urine

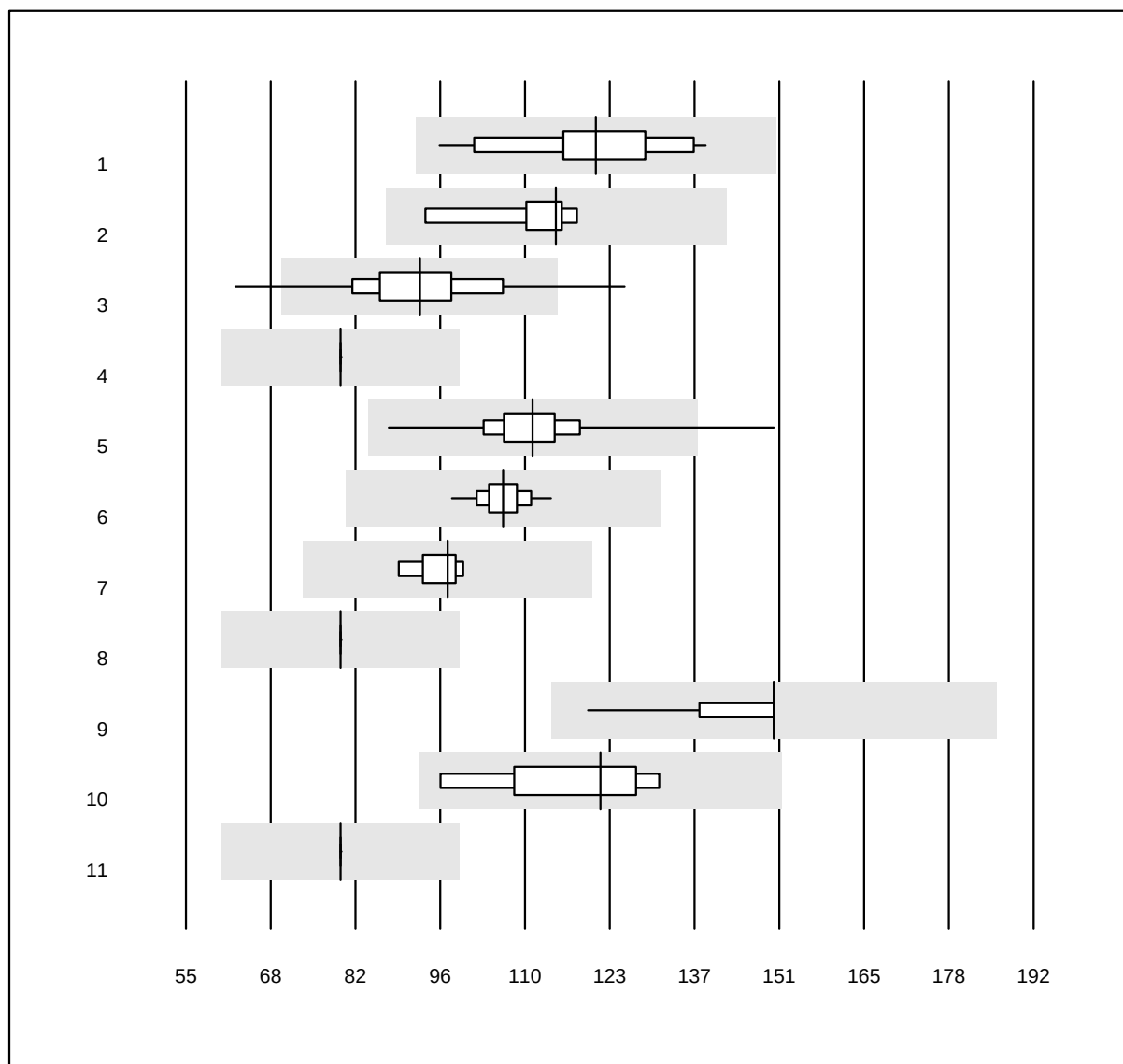


MQ Toleranz: 15%

Phosphate-Urine (mmol/l)

| No. Methode |              | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|--------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | nasschemisch | 26    | 100.0 | 0.0       | 0.0       | 10.5         | 4.7  | e    |

## Creatinine U

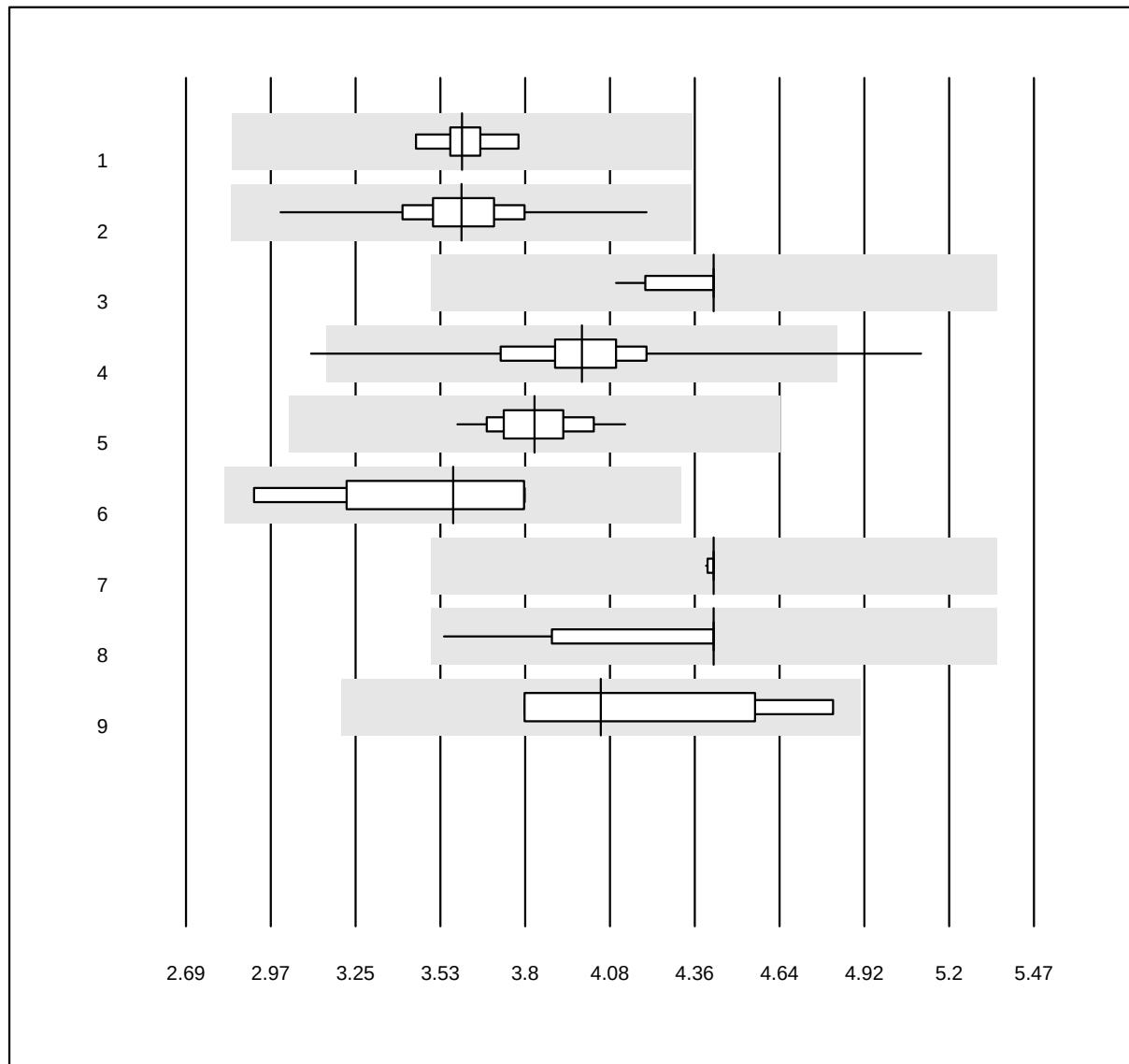


QUALAB Toleranz: 24%

Creatinine U (mg/l)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 AFIAS            | 18    | 88.9  | 0.0       | 11.1      | 121.3        | 9.4  | e    |
| 2 Abbott           | 8     | 100.0 | 0.0       | 0.0       | 114.8        | 6.5  | e    |
| 3 Afinion          | 533   | 95.5  | 3.0       | 1.5       | 92.8         | 10.3 | e    |
| 4 Aution           | 15    | 66.7  | 0.0       | 33.3      | 80.0         | 0.0  | a    |
| 5 DCA2000/Vantage  | 160   | 95.6  | 1.2       | 3.1       | 111.0        | 7.0  | e    |
| 6 Roche            | 25    | 100.0 | 0.0       | 0.0       | 106.3        | 3.2  | e    |
| 7 Siemens          | 4     | 100.0 | 0.0       | 0.0       | 97.3         | 3.2  | e    |
| 8 Siemens Clinitek | 25    | 84.0  | 0.0       | 16.0      | 80.0         | 0.0  | a    |
| 9 Sysmex U         | 19    | 78.9  | 0.0       | 21.1      | 150.0        | 5.2  | a    |
| 10 Turbidimetrie   | 4     | 100.0 | 0.0       | 0.0       | 122.0        | 9.0  | e*   |
| 11 andere Methoden | 6     | 100.0 | 0.0       | 0.0       | 80.0         | 0.0  | a    |

## Creatinine urine



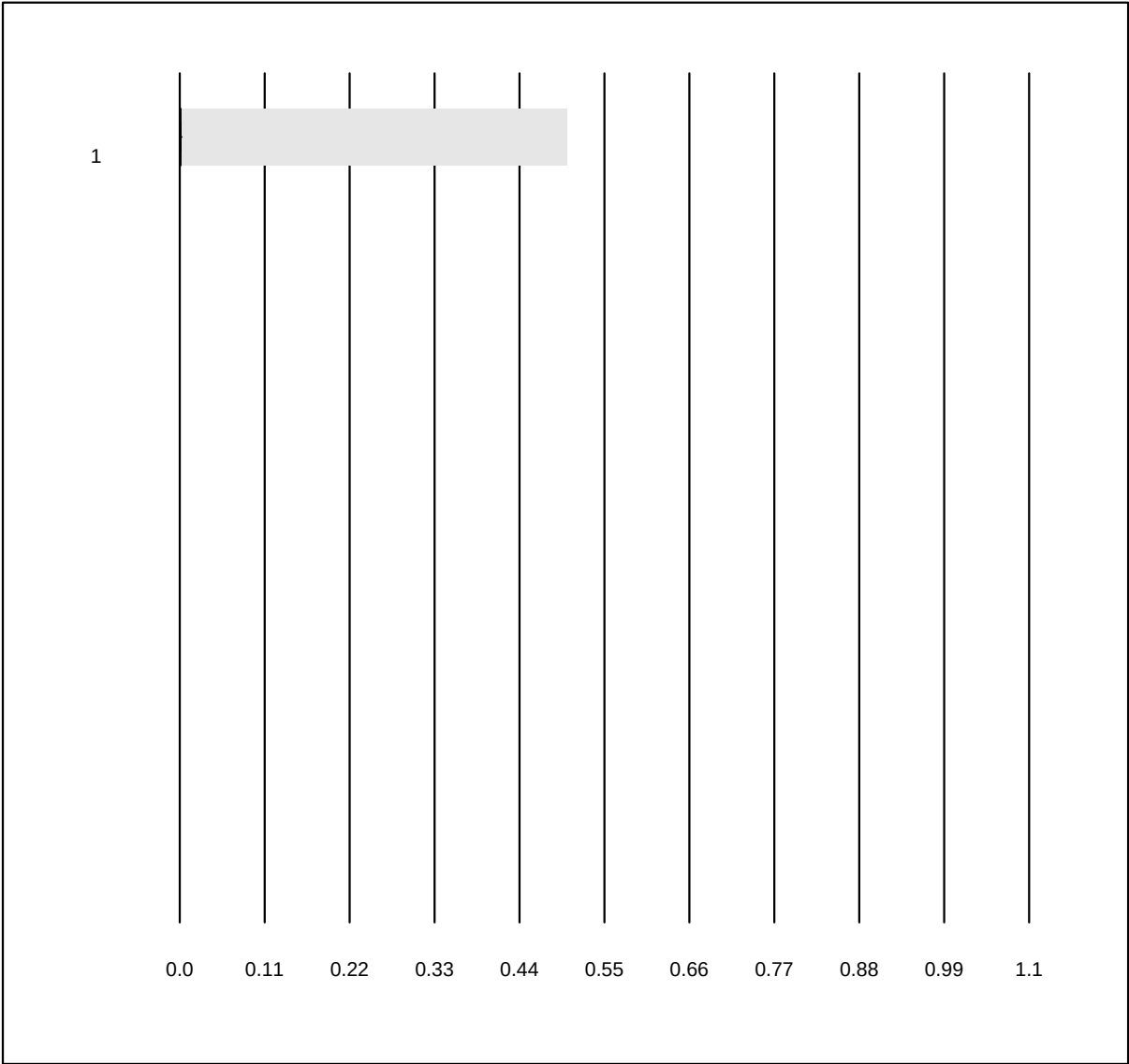
QUALAB Toleranz: 21%

Creatinine urine (mmol/l)

| No. Methode        | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|--------------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Abbott           | 9     | 100.0 | 0.0       | 0.0       | 3.6          | 2.6  | e    |
| 2 Afinion          | 530   | 99.1  | 0.0       | 0.9       | 3.6          | 4.7  | e    |
| 3 Aution           | 15    | 80.0  | 0.0       | 20.0      | 4.4          | 2.1  | a    |
| 4 DCA2000/Vantage  | 160   | 93.8  | 1.9       | 4.4       | 4.0          | 6.7  | e    |
| 5 Roche            | 31    | 100.0 | 0.0       | 0.0       | 3.8          | 3.5  | e    |
| 6 Siemens          | 6     | 100.0 | 0.0       | 0.0       | 3.6          | 8.9  | e*   |
| 7 Siemens Clinitek | 23    | 82.6  | 0.0       | 17.4      | 4.4          | 0.2  | a    |
| 8 Sysmex U         | 16    | 81.2  | 0.0       | 18.8      | 4.4          | 5.6  | a    |
| 9 nasschemisch     | 4     | 100.0 | 0.0       | 0.0       | 4.0          | 9.9  | e*   |

3 additional results were submitted but not published because the method groups were too small. (&lt; results per group)

CMV NAT qn

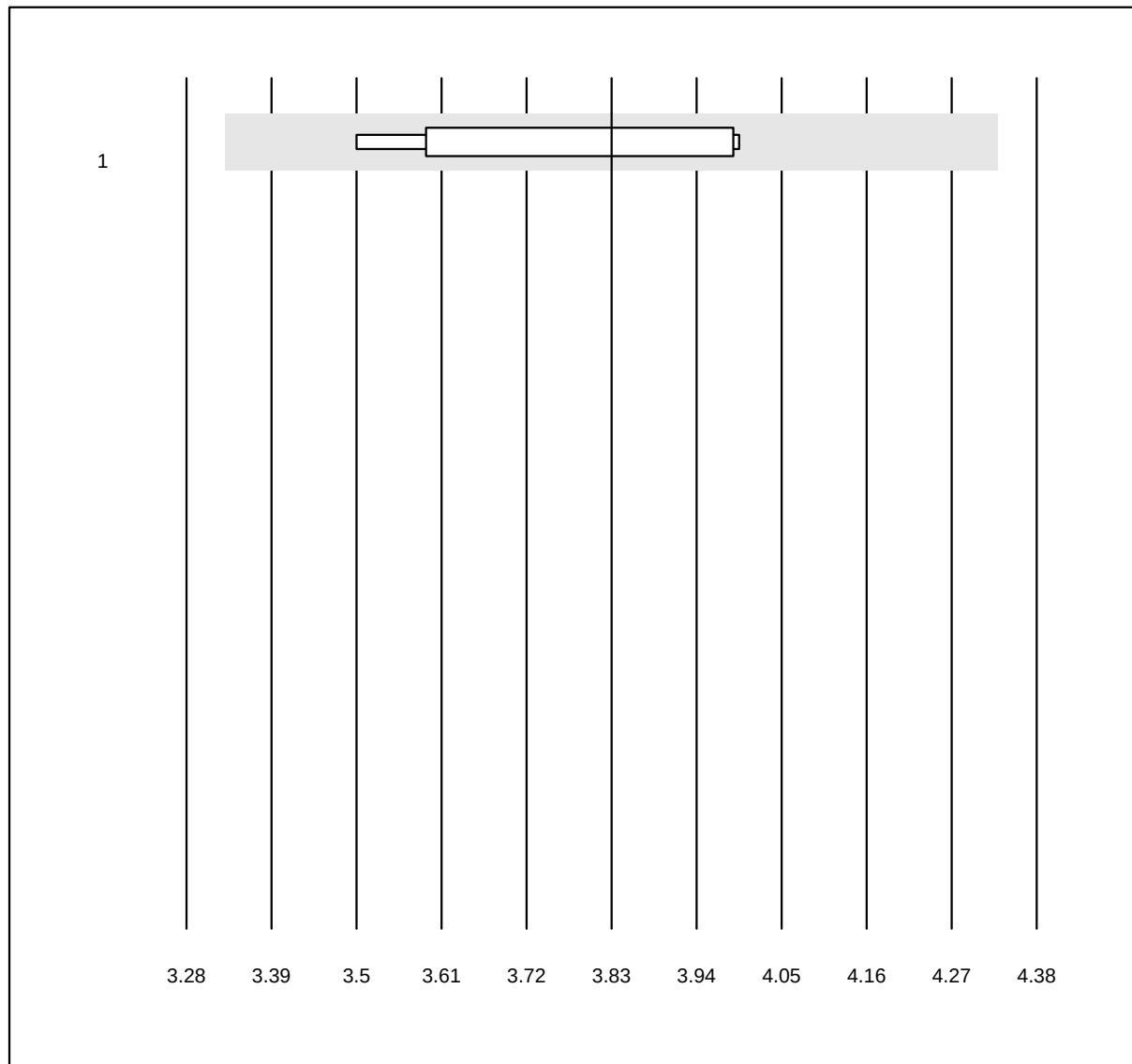


QUALAB Toleranz: 0%  
( < 15.0: +/- 0.5 Log10 IU/ml)

CMV NAT qn (Log10 IU/ml)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 4     | 100.0 | 0.0       | 0.0       | 0.00         | 0.0  | e    |

## EBV NAT qn



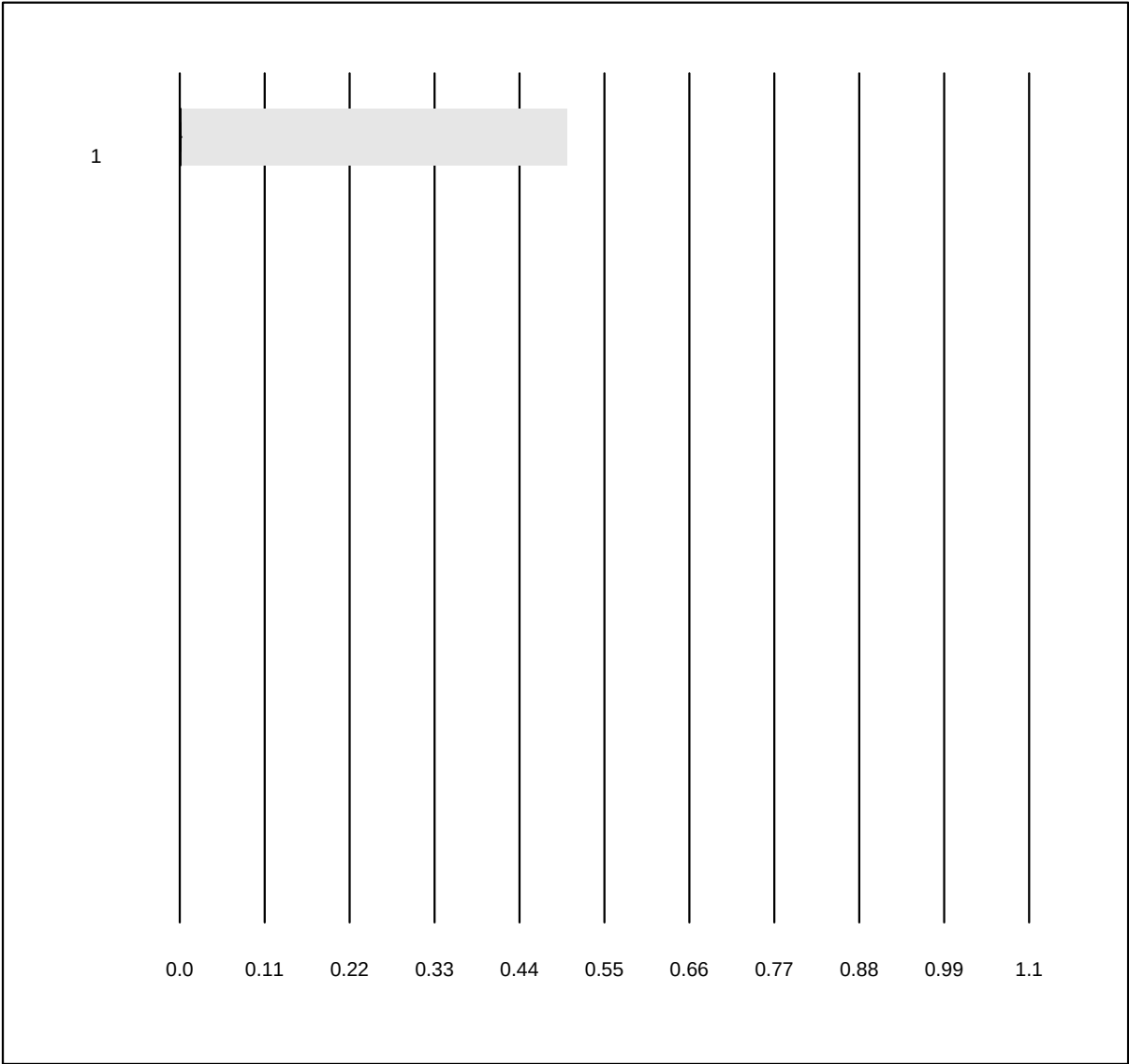
QUALAB Toleranz: 0%  
( < 15.0: +/- 0.5 Log10 IU/ml)

EBV NAT qn (Log10 IU/ml)

| No. Methode     | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-----------------|-------|-------|-----------|-----------|--------------|------|------|
| 1 Alle Methoden | 4     | 100.0 | 0.0       | 0.0       | 3.83         | 5.7  | a*   |



HBV NAT qn

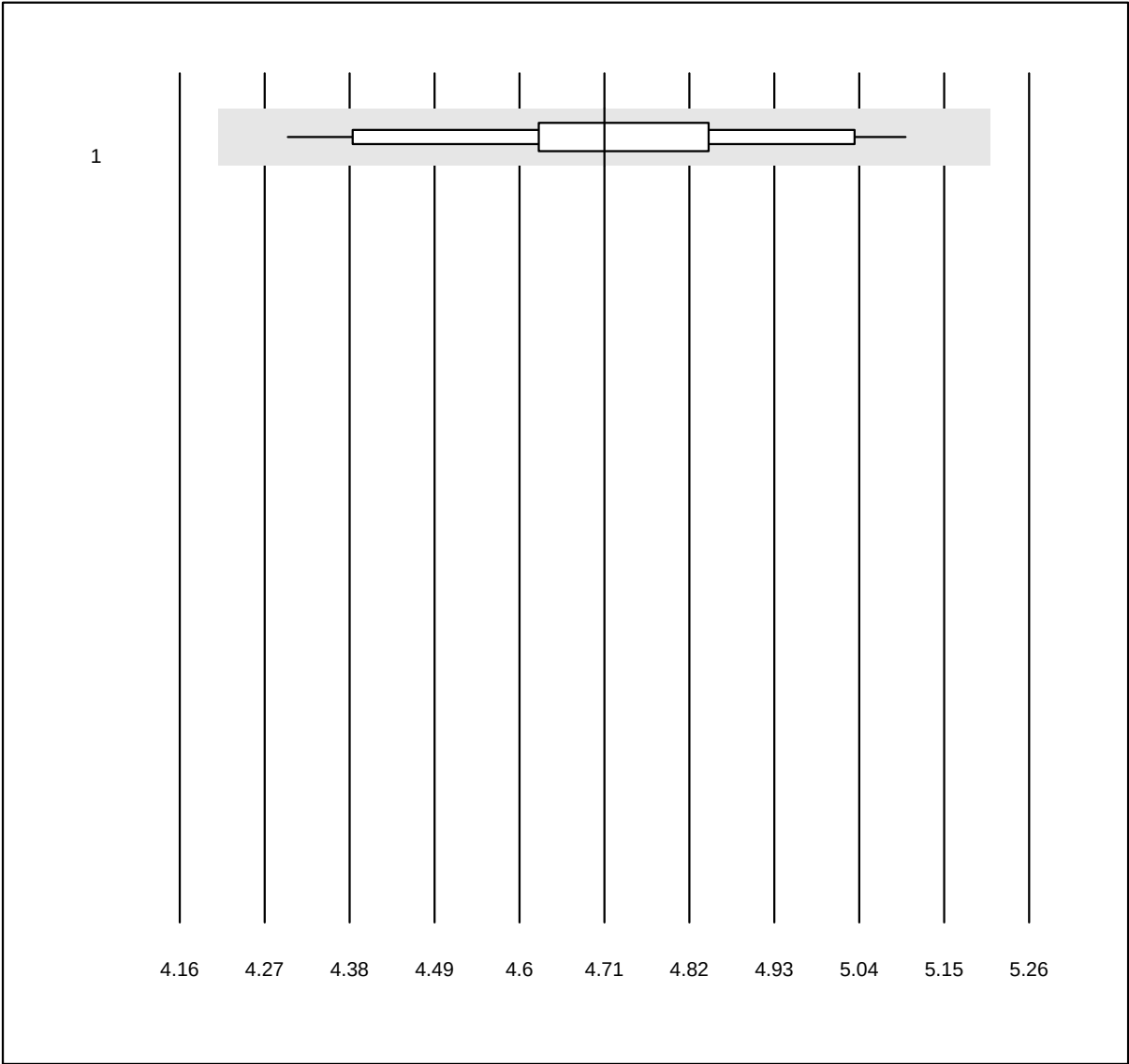


QUALAB Toleranz: 0%  
( < 15.0: +/- 0.5 Log10 IU/ml)

HBV NAT qn (Log10 IU/ml)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 11    | 100.0 | 0.0       | 0.0       | 0.00         | 0.0  | e    |

HCV NAT qn



QUALAB Toleranz: 0%  
( < 15.0: +/- 0.5 Log10 IU/ml)

HCV NAT qn (Log10 IU/ml)

| No. Methode |               | Total | % OK  | % insuff. | % outlier | Target Value | VK % | Type |
|-------------|---------------|-------|-------|-----------|-----------|--------------|------|------|
| 1           | Alle Methoden | 12    | 100.0 | 0.0       | 0.0       | 4.71         | 4.1  | a    |

