

Verein für
Association pour le
Associazione per il



medizinische Qualitätskontrolle
contrôle de qualité médical
controllo di qualità medico

Survey Report

2022 - 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:
B1 Strep A Test, 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 (u_x) 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.

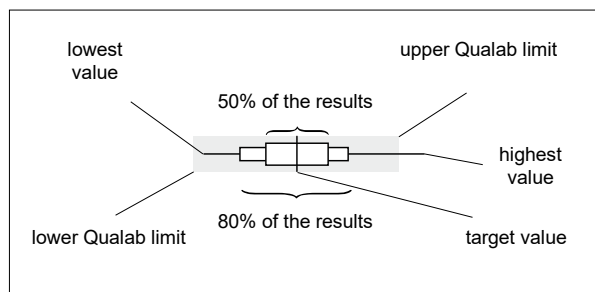
QUALAB and MQ tolerances

For all mandatory analyzes, QUALAB tolerances are used (www.qualab.ch, 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.

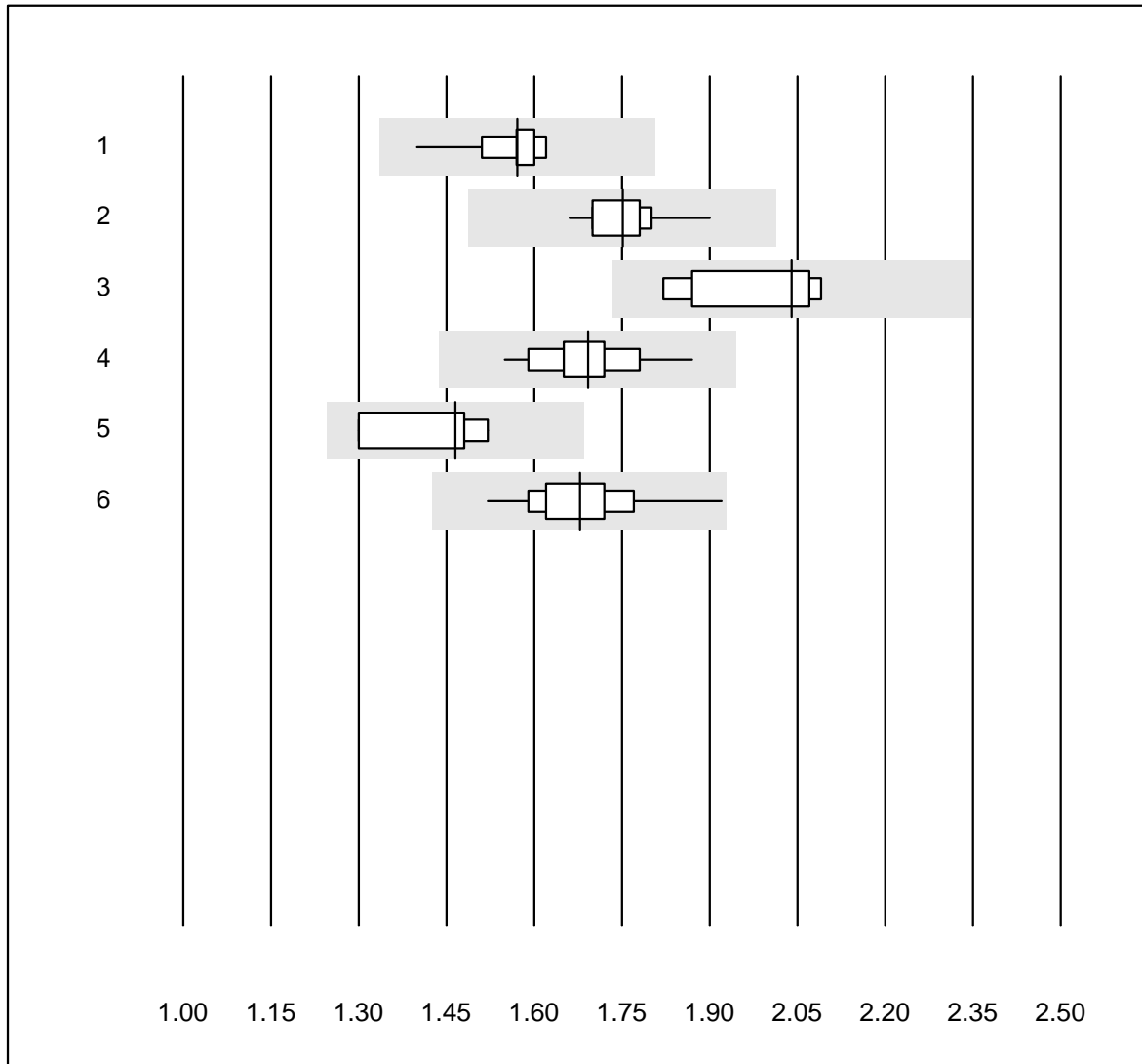
Zürich, 4.10.2022

Dr. R. Fried
Survey Director

Publication of this report or any portion thereof without our prior written consent is not permitted. The original is archived at www.mqzh.ch

G01 Coagulation INR

INR



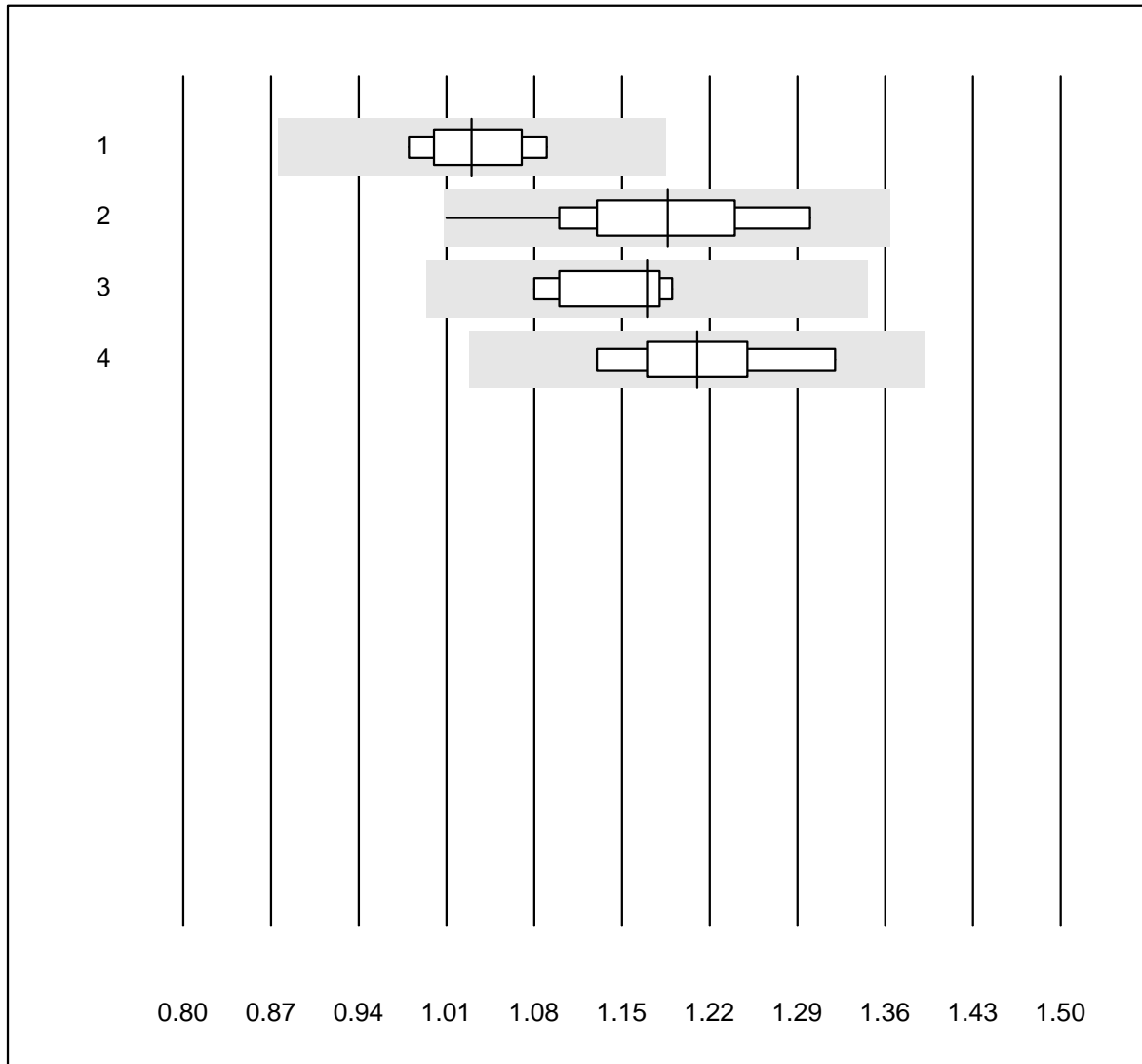
QUALAB tolerance : 15 %

INR ()

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Innovin	14	100.0	0.0	0.0	1.57	3.7	e
2	Neoplastin R	12	100.0	0.0	0.0	1.75	3.7	e
3	Neoplastin Plus	5	100.0	0.0	0.0	2.04	6.3	e*
4	Recombiplastin 2G	12	100.0	0.0	0.0	1.69	5.2	e
5	Eurolyser	4	100.0	0.0	0.0	1.47	6.7	e*
6	Other methods	14	100.0	0.0	0.0	1.68	5.8	e

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

Fibrinogen OA



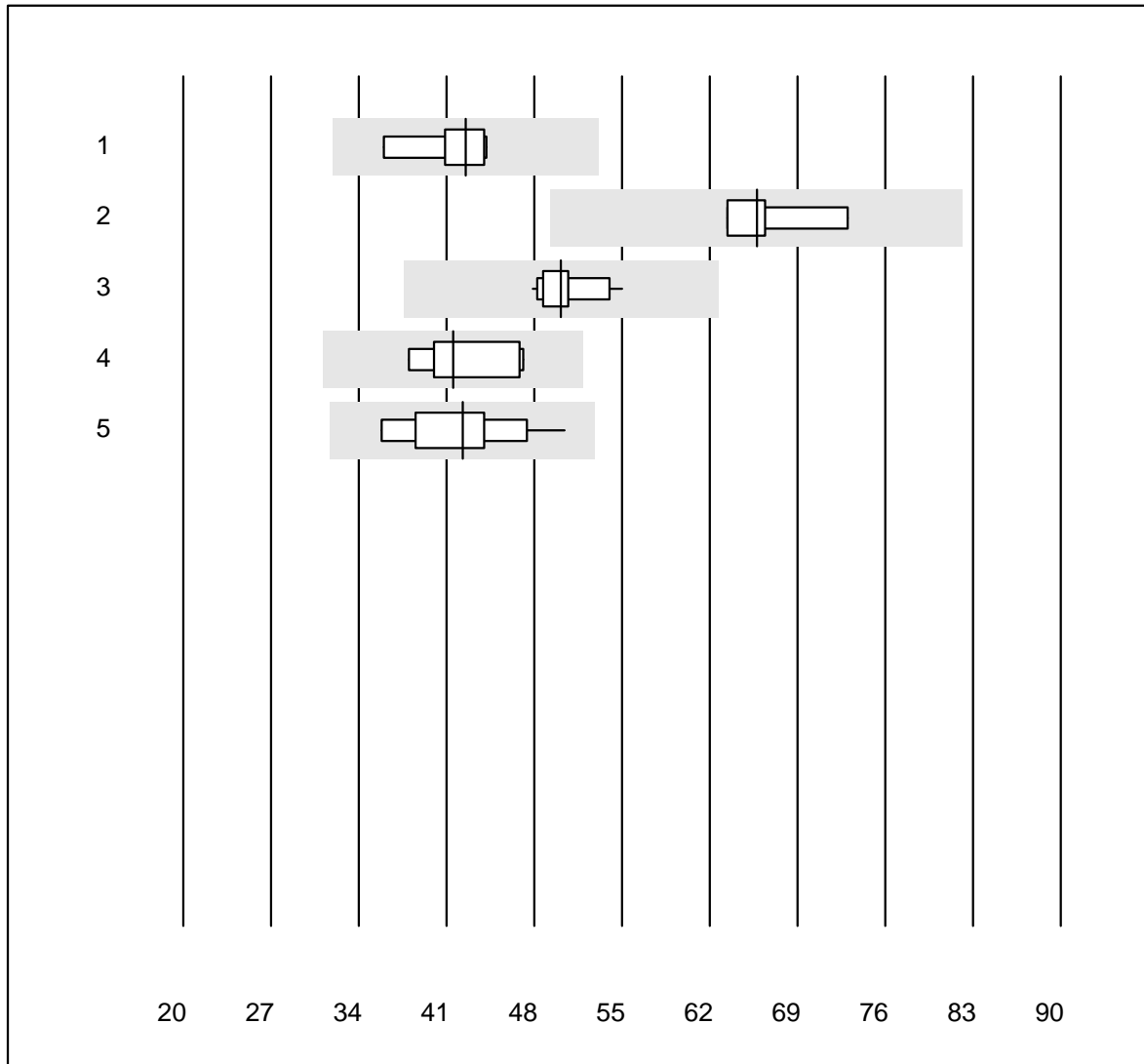
QUALAB tolerance : 15 %

Fibrinogen OA (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Siemens Thrombin	6	100.0	0.0	0.0	1.03	4.4	e
2	Stago/STA	16	100.0	0.0	0.0	1.19	6.5	e
3	Fibrinogen Q.F.A.	5	100.0	0.0	0.0	1.17	4.4	e*
4	Other methods	7	100.0	0.0	0.0	1.21	5.0	e*

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

Activated Prothrombin Time



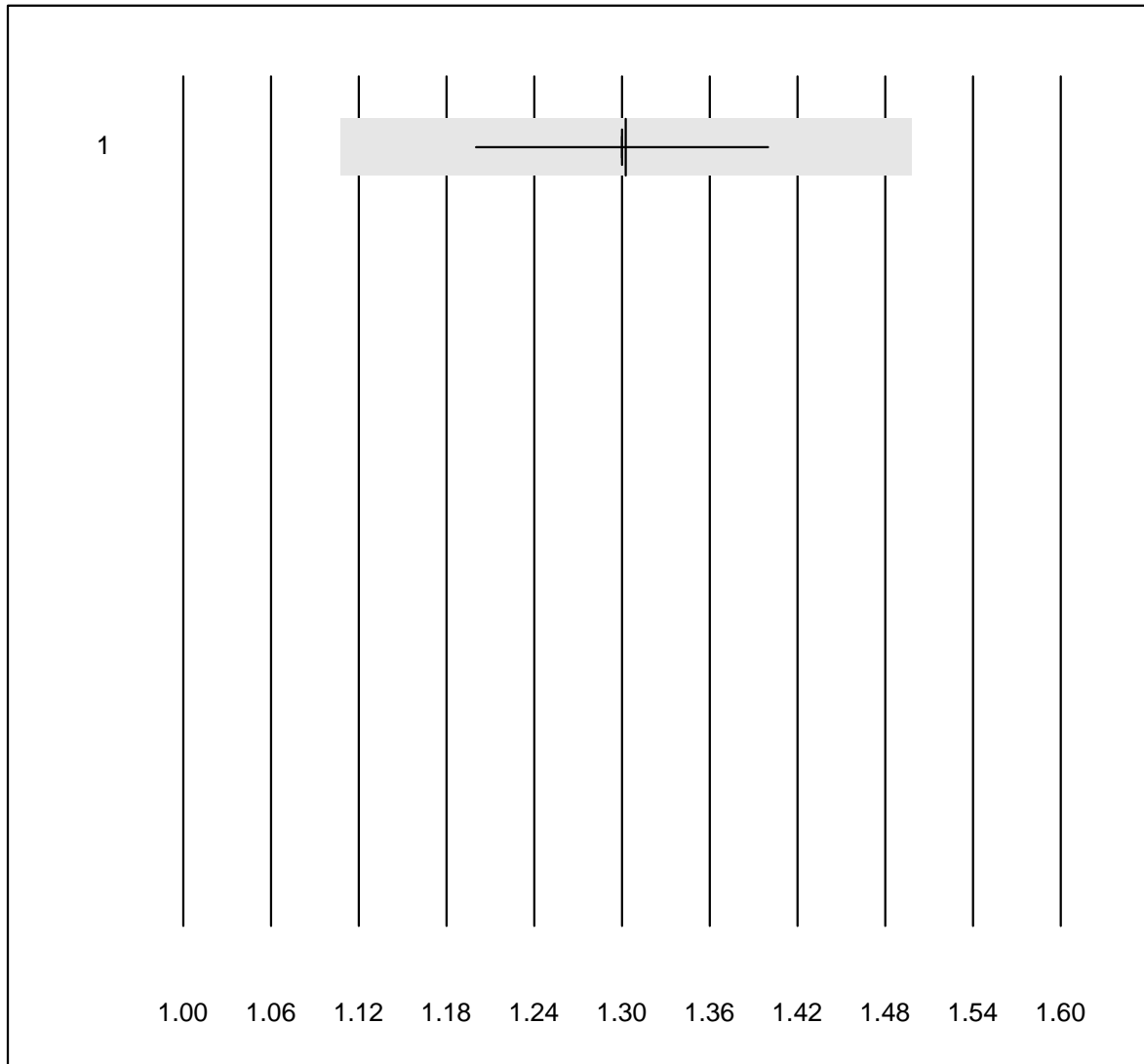
QUALAB tolerance : 25 %

Activated Prothrombin Time (Sek)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Actin FS	7	100.0	0.0	0.0	42.5	6.7	e
2	Pathromtin SL	4	100.0	0.0	0.0	65.8	6.3	e*
3	Stago/STA	15	100.0	0.0	0.0	50.1	4.1	e
4	aPTT-SP	7	100.0	0.0	0.0	41.5	8.1	e*
5	Other methods	10	100.0	0.0	0.0	42.3	11.2	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

INR CoaguChek

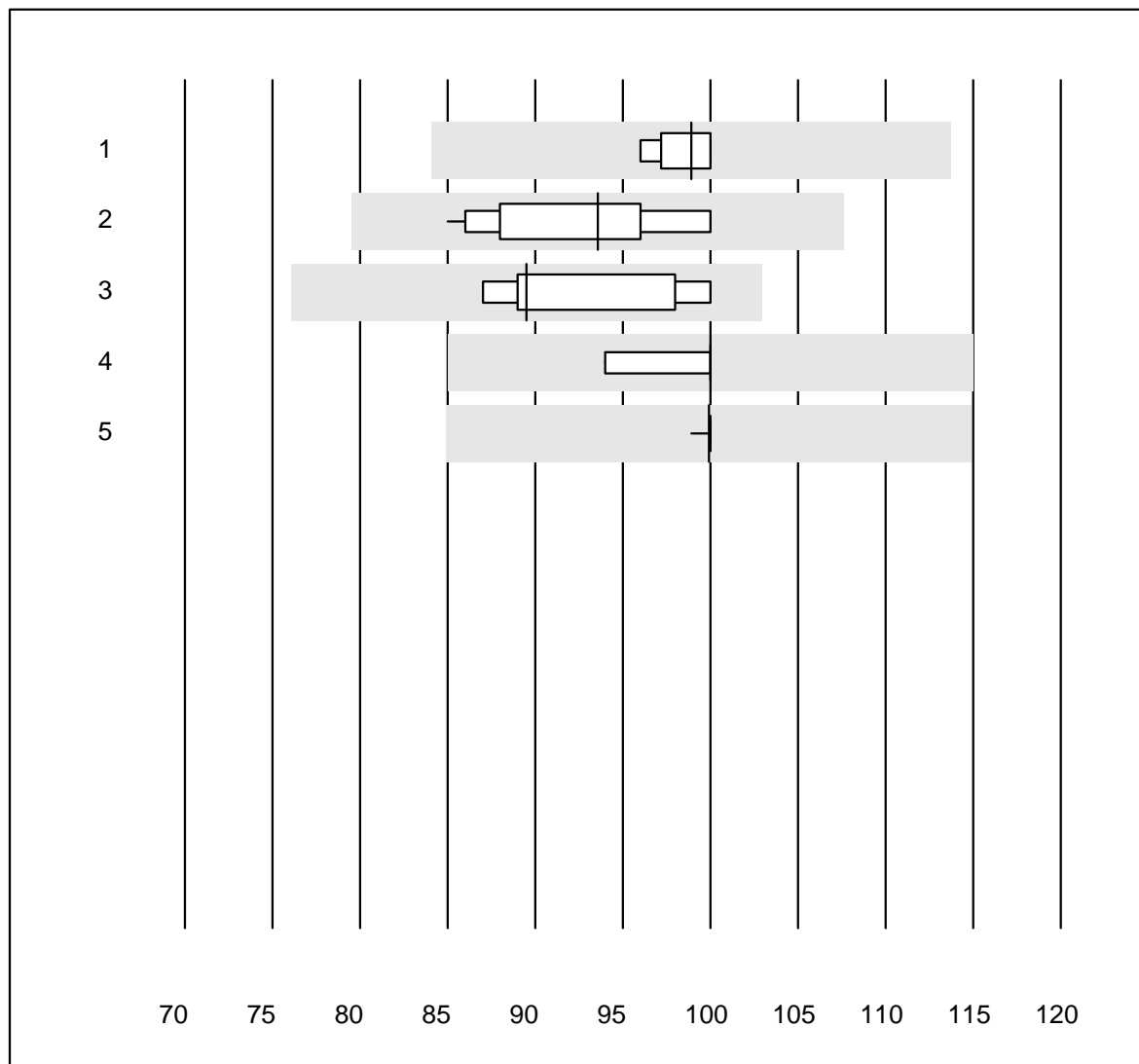


QUALAB tolerance : 15 %

INR CoaguChek ()

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	CoaguChek Pro II	742	99.1	0.0	0.9	1.3	1.5	e

Prothrombin time NT



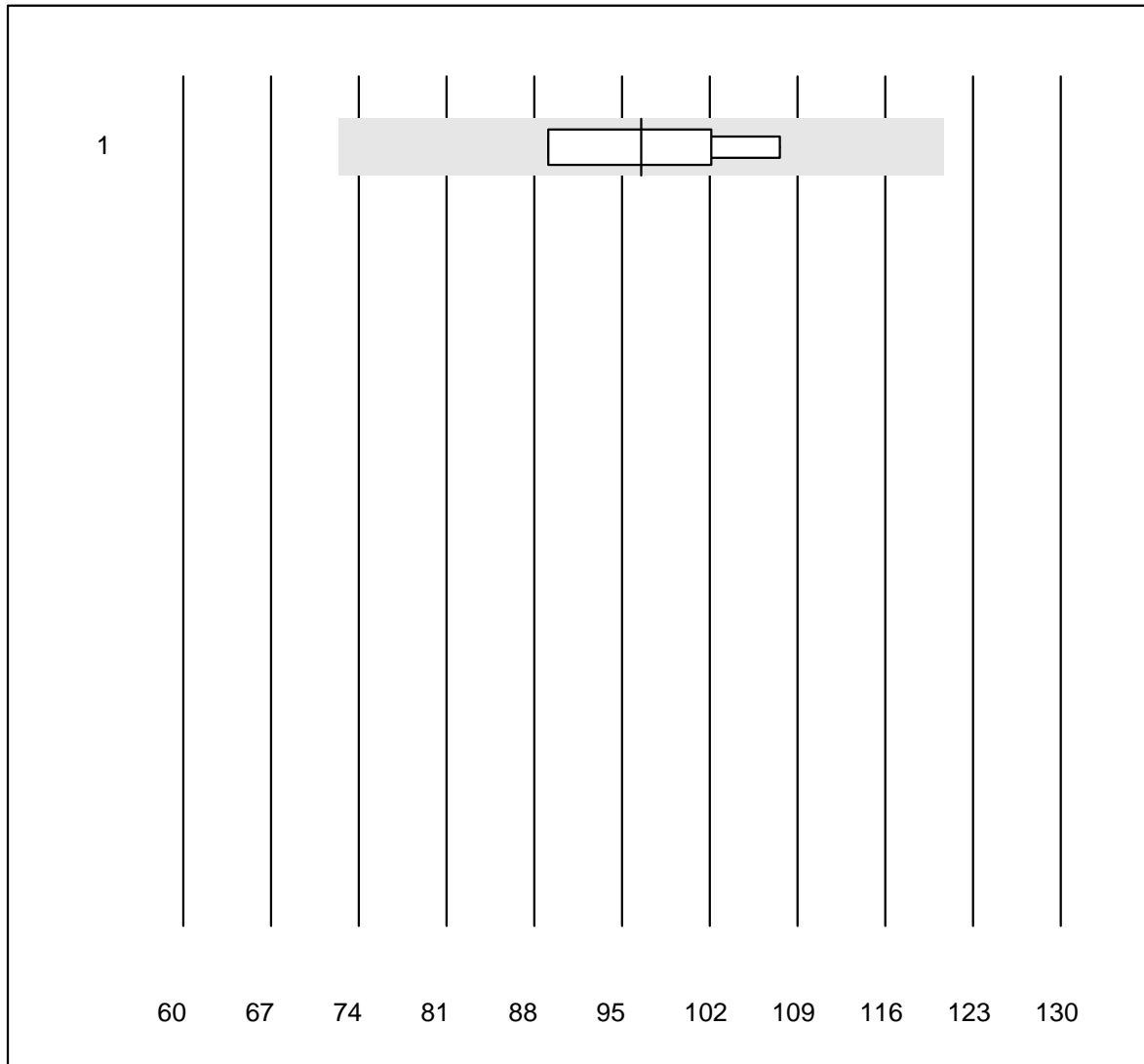
QUALAB tolerance : 15 %

Prothrombin time NT (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Innovin	10	100.0	0.0	0.0	99	1.6	e
2	Neoplastin R	12	100.0	0.0	0.0	94	5.5	e
3	Neoplastin Plus	6	100.0	0.0	0.0	90	5.9	e*
4	Recombiplastin 2G	8	87.5	0.0	12.5	100	2.3	e
5	Other methods	13	100.0	0.0	0.0	100	0.3	e

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Faktor II

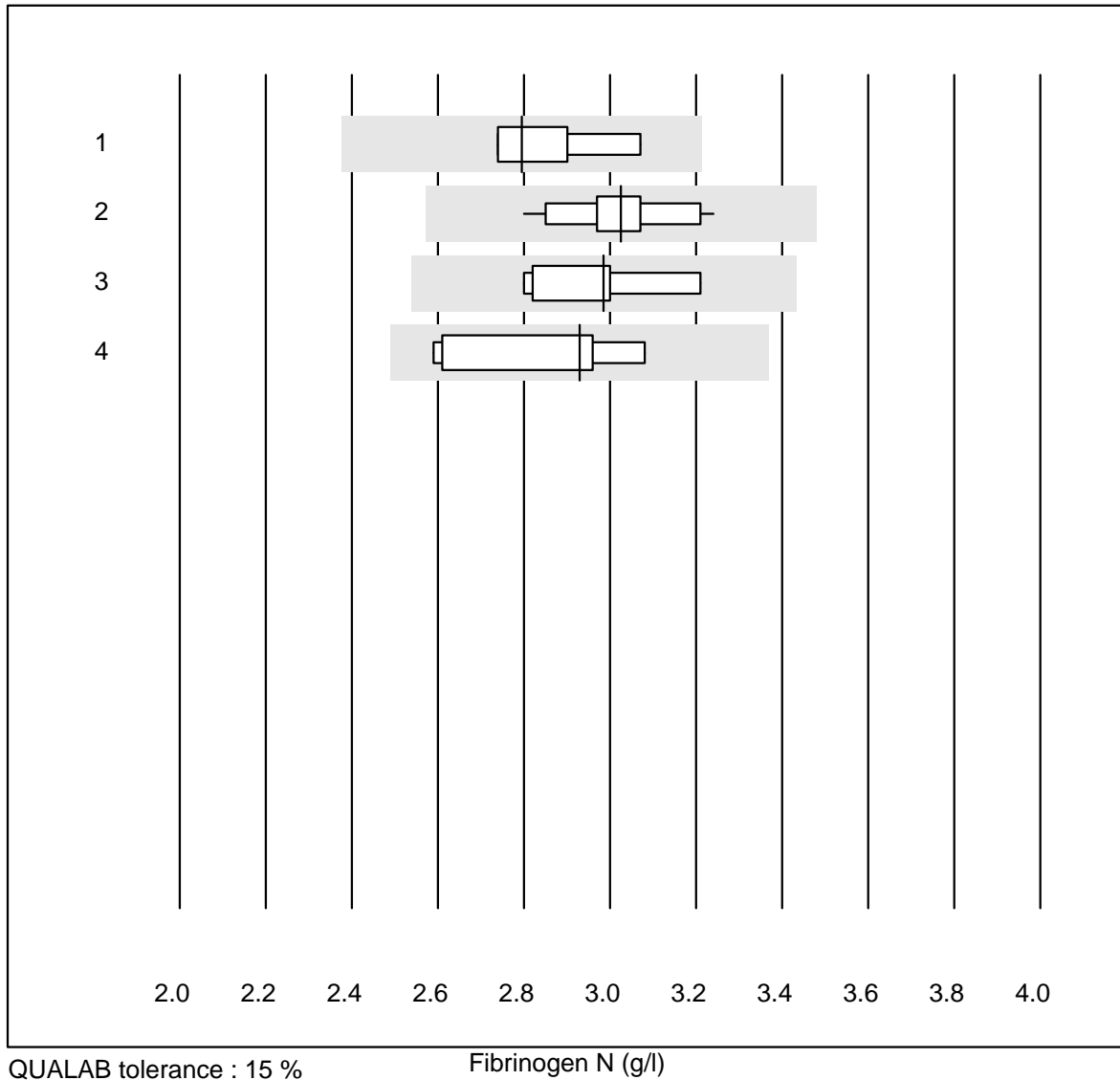


MQ tolerance : 25 %

Faktor II (%)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	4	100.0	0.0	0.0	96.6	9.1	e*

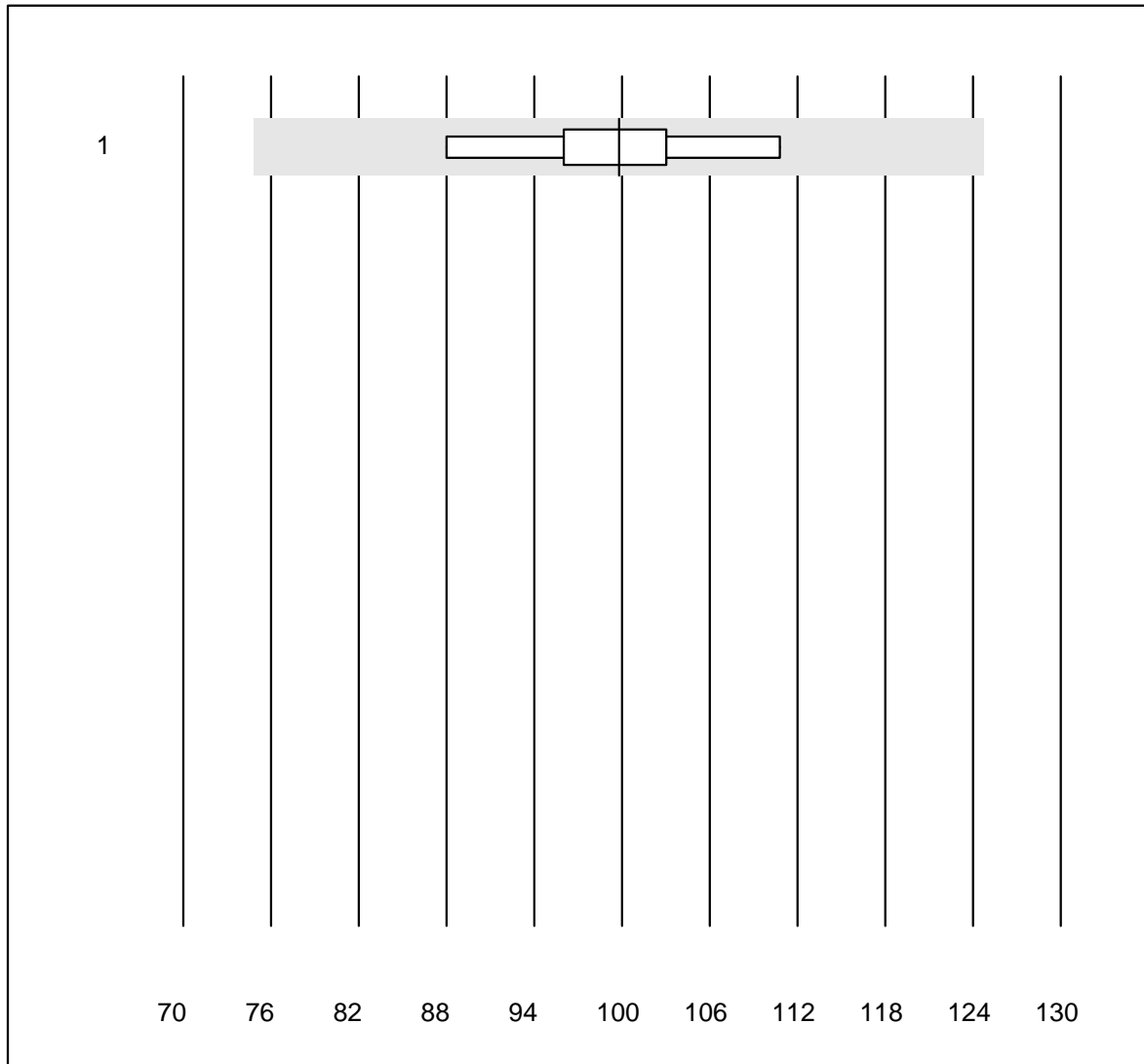
Fibrinogen N



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Siemens Thrombin	6	100.0	0.0	0.0	2.80	4.6	e*
2	Stago/STA	17	100.0	0.0	0.0	3.03	4.0	e
3	Fibrinogen Q.F.A.	8	100.0	0.0	0.0	2.99	4.6	e
4	Other methods	8	100.0	0.0	0.0	2.93	6.7	e*

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

Faktor V

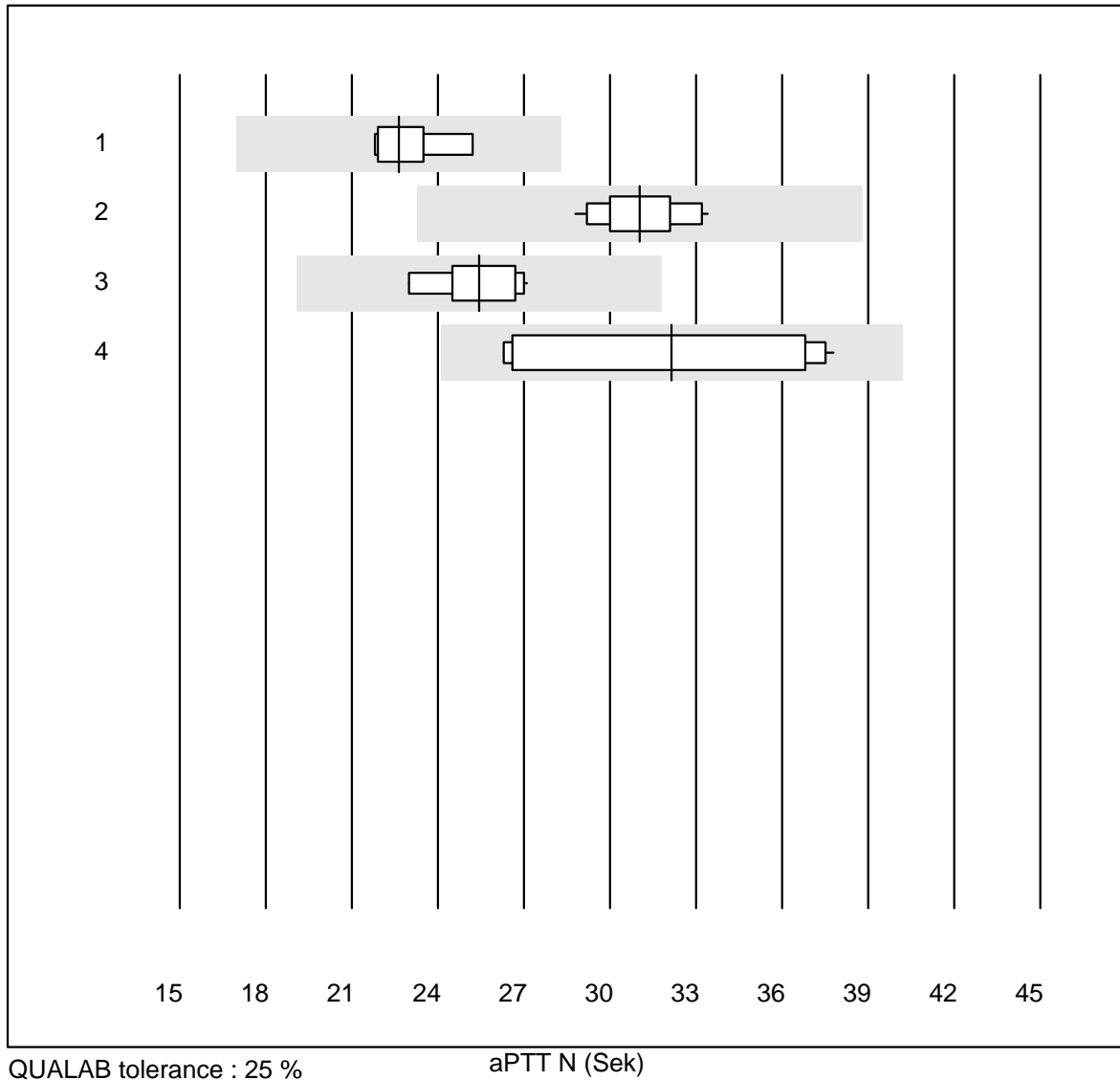


MQ tolerance : 25 %

Faktor V (%)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	8	100.0	0.0	0.0	99.8	6.9	e

aPTT N



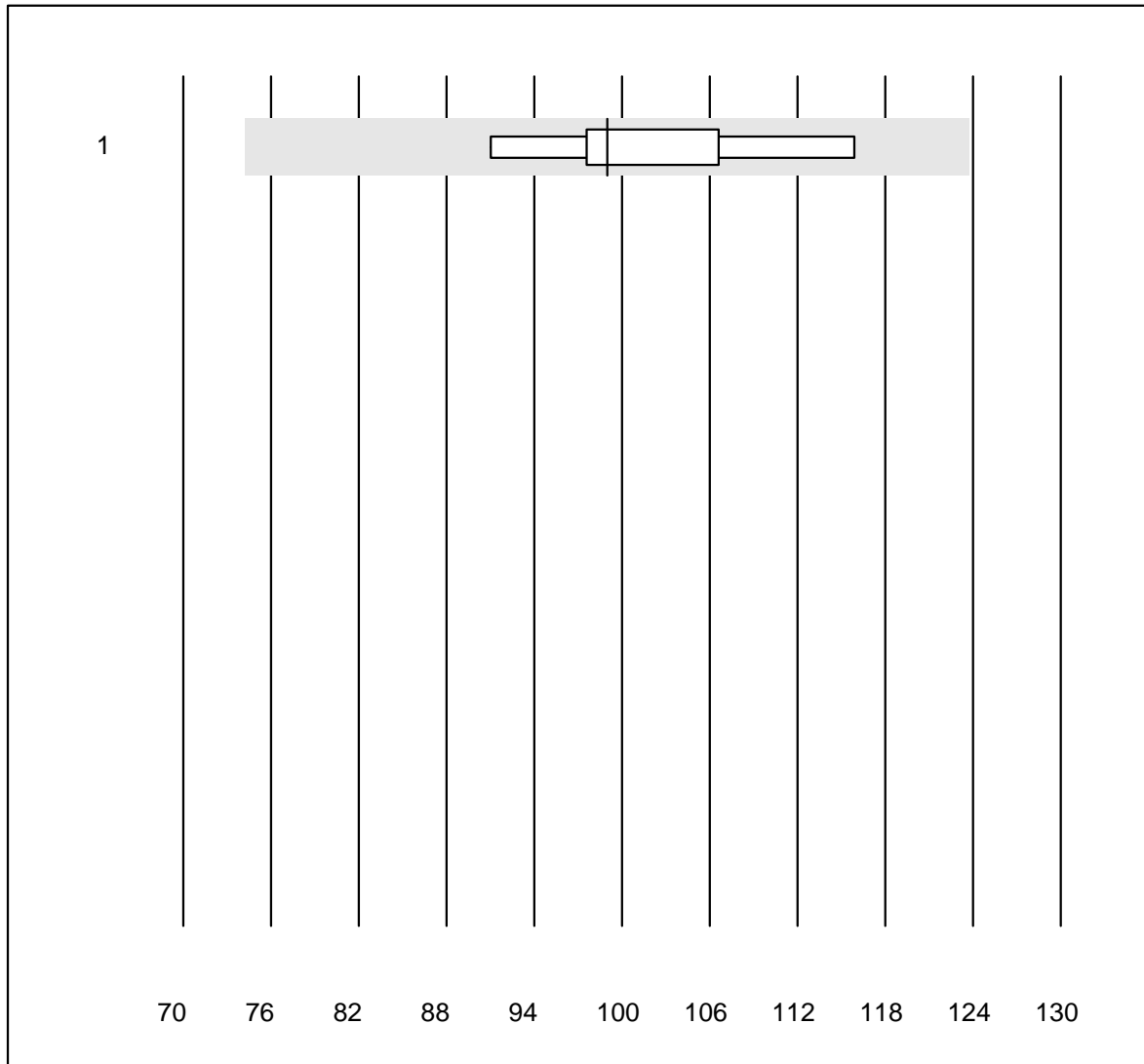
QUALAB tolerance : 25 %

aPTT N (Sek)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Actin FS	8	100.0	0.0	0.0	22.7	5.2	e
2	Stago/STA	19	100.0	0.0	0.0	31.0	4.3	e
3	aPTT-SP	10	100.0	0.0	0.0	25.4	5.4	e
4	Other methods	10	100.0	0.0	0.0	32.2	15.8	e*

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

Faktor VII

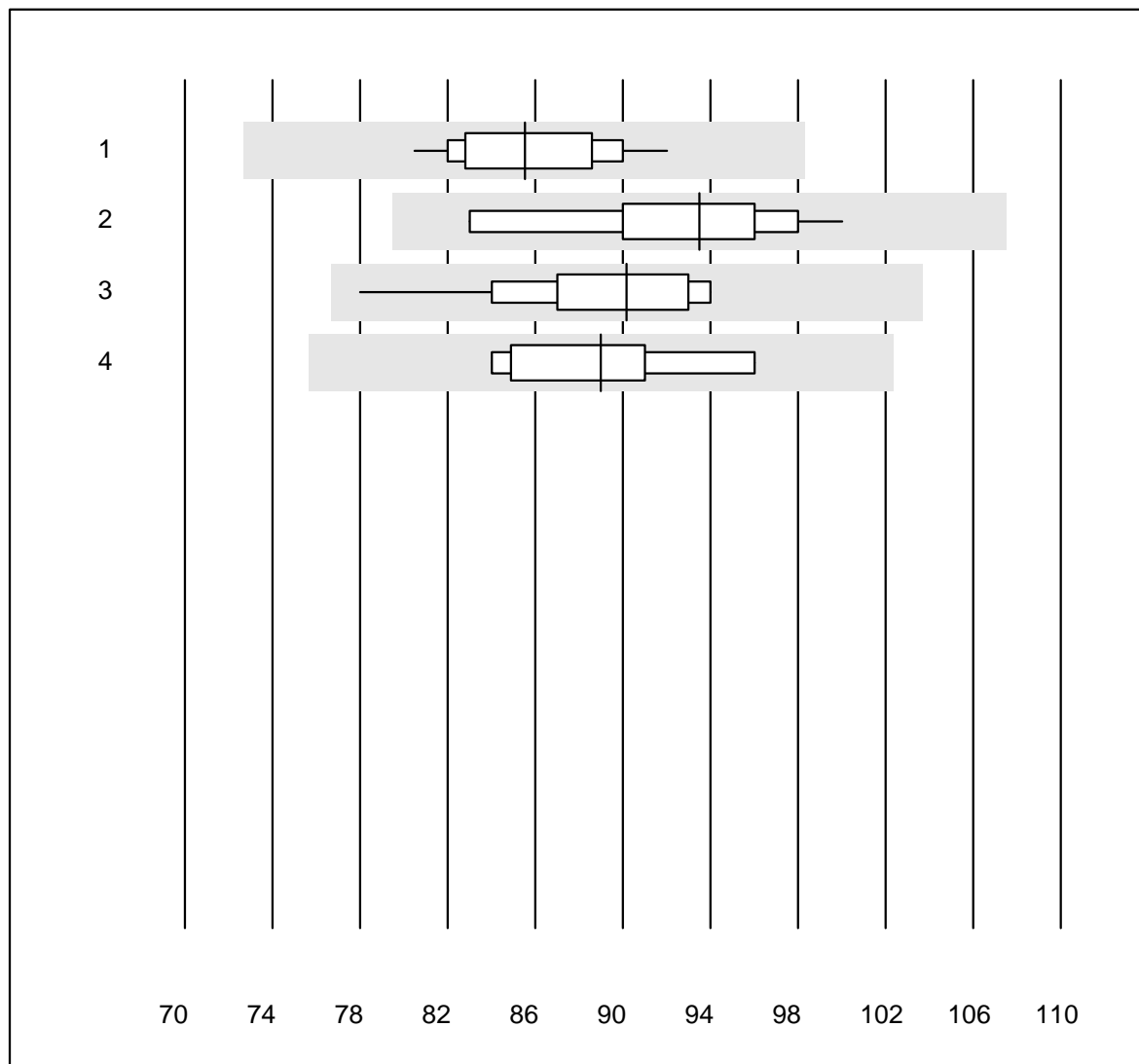


MQ tolerance : 25 %

Faktor VII (%)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	5	100.0	0.0	0.0	99.0	9.3	e*

Prothrombin time HT



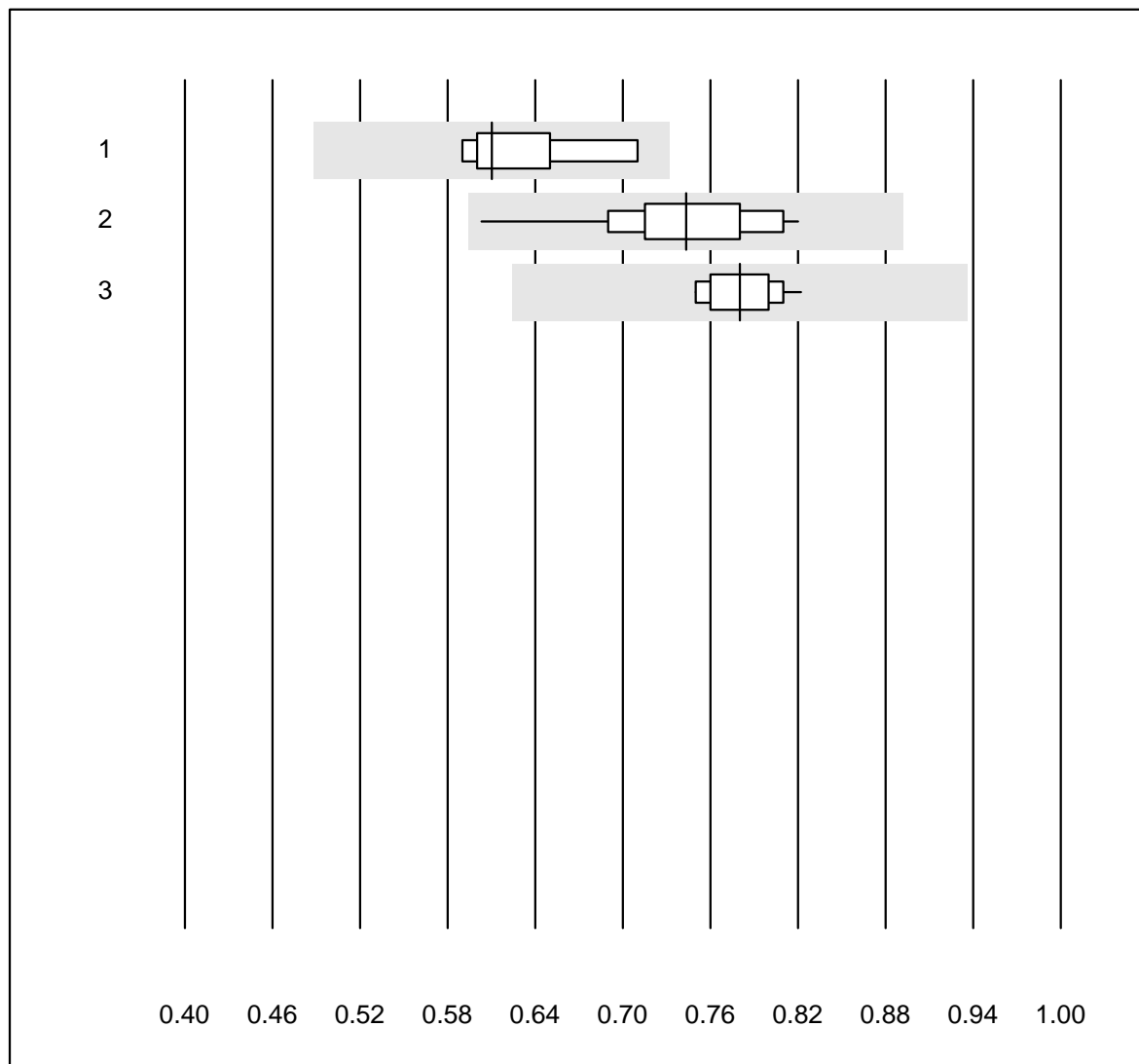
QUALAB tolerance : 15 %

Prothrombin time HT (%)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Innovin	11	100.0	0.0	0.0	86	4.2	e
2 Neoplastin R	10	100.0	0.0	0.0	93	5.5	e
3 Recombiplastin 2G	12	100.0	0.0	0.0	90	5.4	e
4 Other methods	8	100.0	0.0	0.0	89	4.5	e

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

Anti-FXa (unfrakt-Heparin)

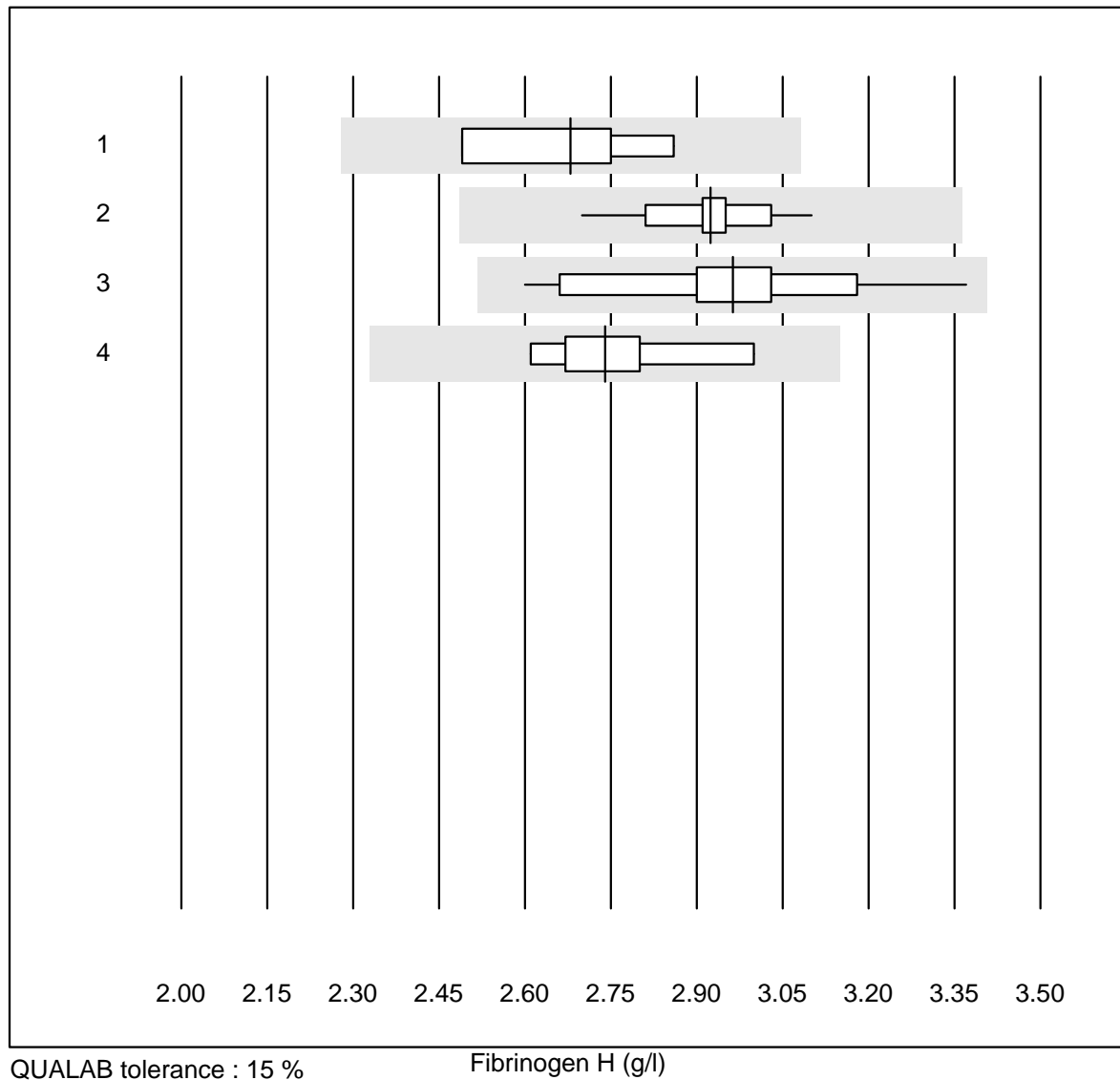


MQ tolerance : 20 %

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

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Stago/STA	7	100.0	0.0	0.0	0.61	6.5	e*
2 ACL	17	100.0	0.0	0.0	0.74	7.0	e
3 Other methods	11	100.0	0.0	0.0	0.78	3.1	e

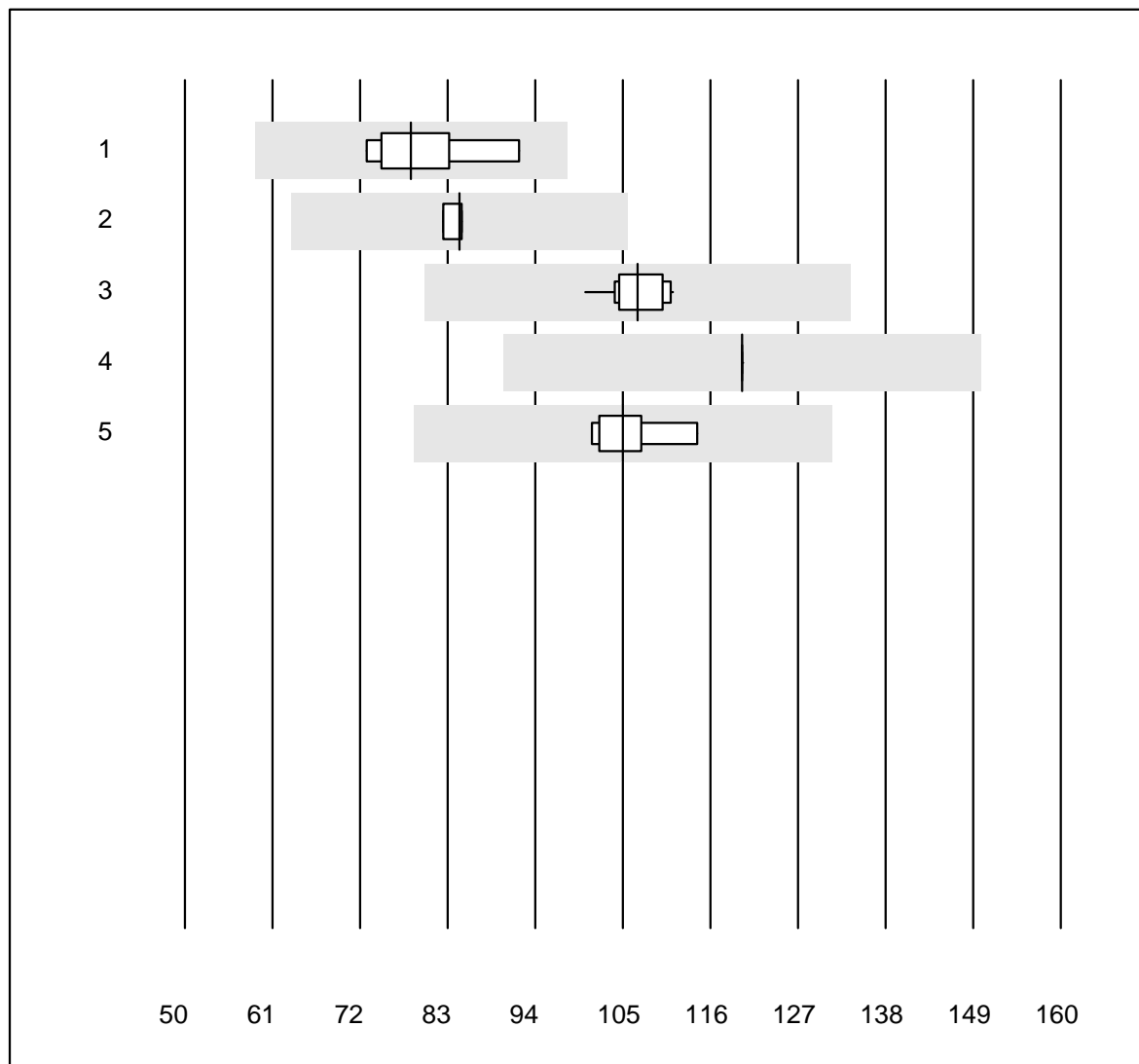
Fibrinogen H



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Siemens Thrombin	4	100.0	0.0	0.0	2.68	6.0	e*
2	Stago/STA	13	100.0	0.0	0.0	2.92	3.3	e
3	Fibrinogen Q.F.A.	14	100.0	0.0	0.0	2.96	6.6	e
4	Other methods	8	100.0	0.0	0.0	2.74	5.0	e

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

aPTT H



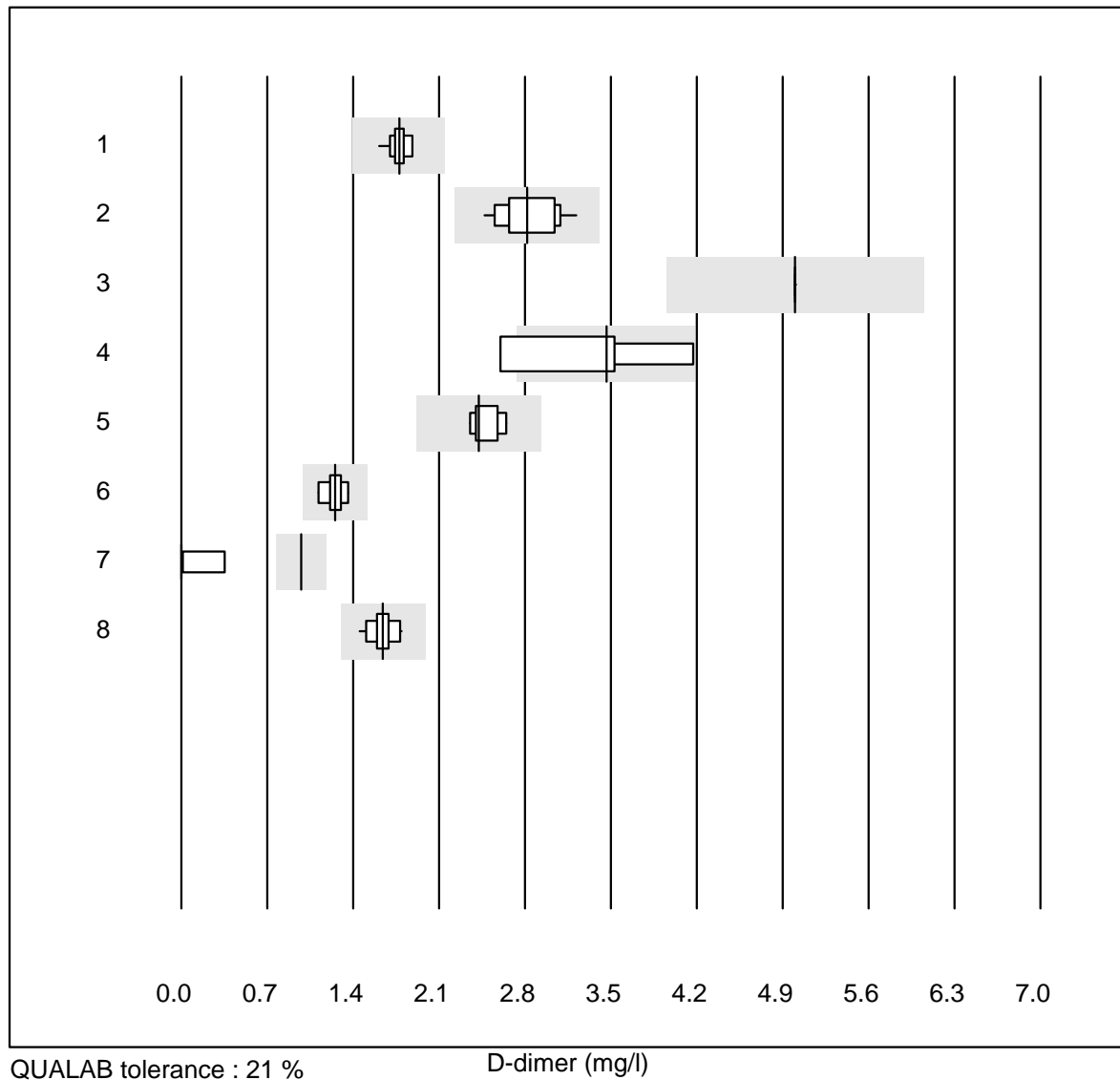
QUALAB tolerance : 25 %

aPTT H (Sek)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Actin FS	5	100.0	0.0	0.0	78.4	9.6	e*
2	Actin FSL	4	100.0	0.0	0.0	84.5	1.3	e
3	Stago/STA	11	100.0	0.0	0.0	106.9	3.3	e
4	aPTT-SP	13	100.0	0.0	0.0	120.0	0.0	e
5	Other methods	5	100.0	0.0	0.0	105.0	5.0	e

One result was submitted but not published because the method group was too small. (<4 results per group)

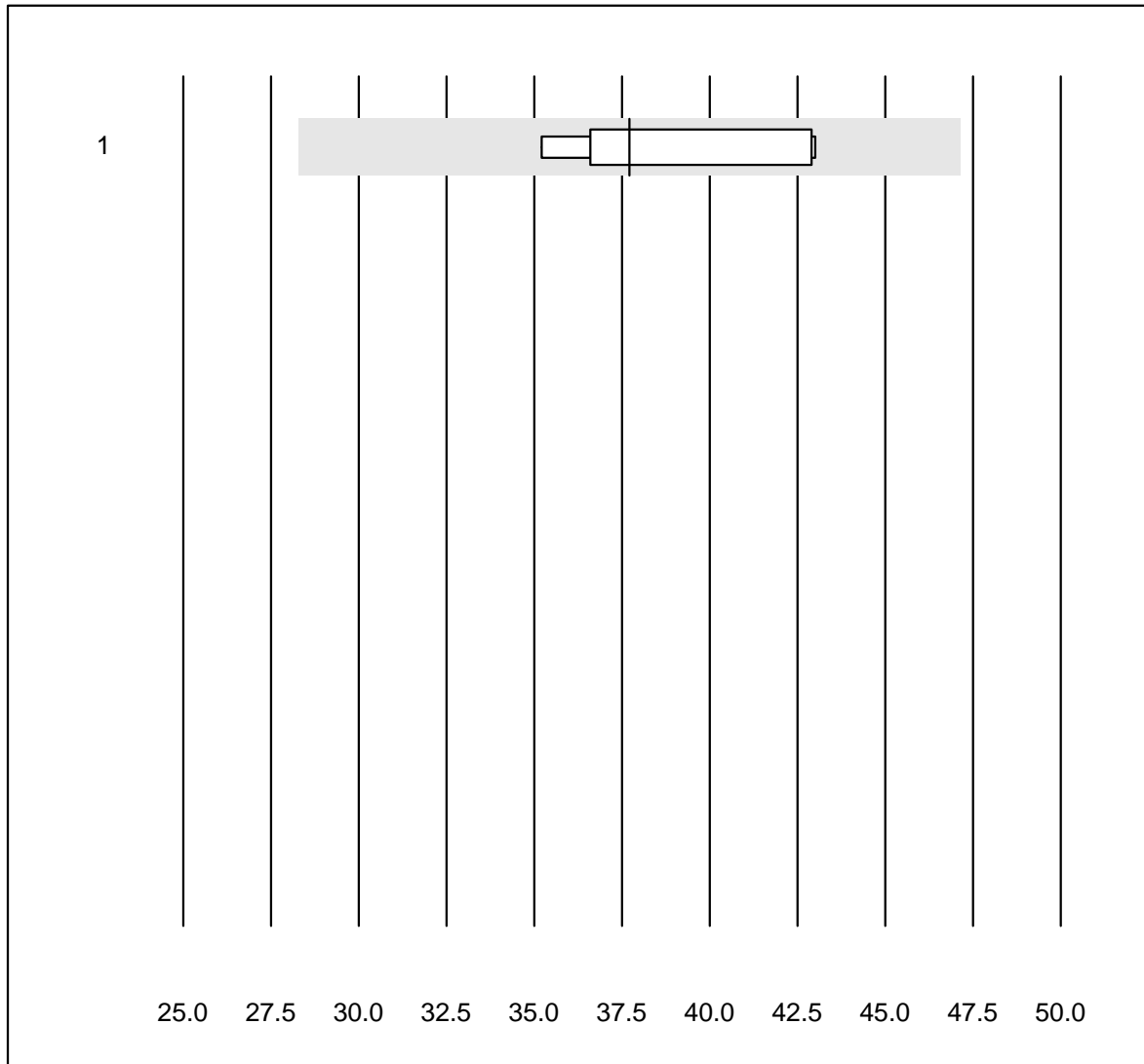
D-dimer



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	STA Liatest	15	100.0	0.0	0.0	1.77	4.0	e
2	Siemens Innovance	11	100.0	0.0	0.0	2.82	8.1	e
3	Pathfast	9	88.9	0.0	11.1	5.00	0.0	e
4	Eurolyser	4	75.0	25.0	0.0	3.46	18.9	e*
5	ACL	9	100.0	0.0	0.0	2.42	4.5	e
6	AQT 90 FLEX	9	100.0	0.0	0.0	1.25	5.9	e
7	Lumira Dx	4	0.0	0.0	100.0	0.97	0.0	e
8	VIDAS	16	100.0	0.0	0.0	1.64	5.5	e

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

CoaguChek APTT

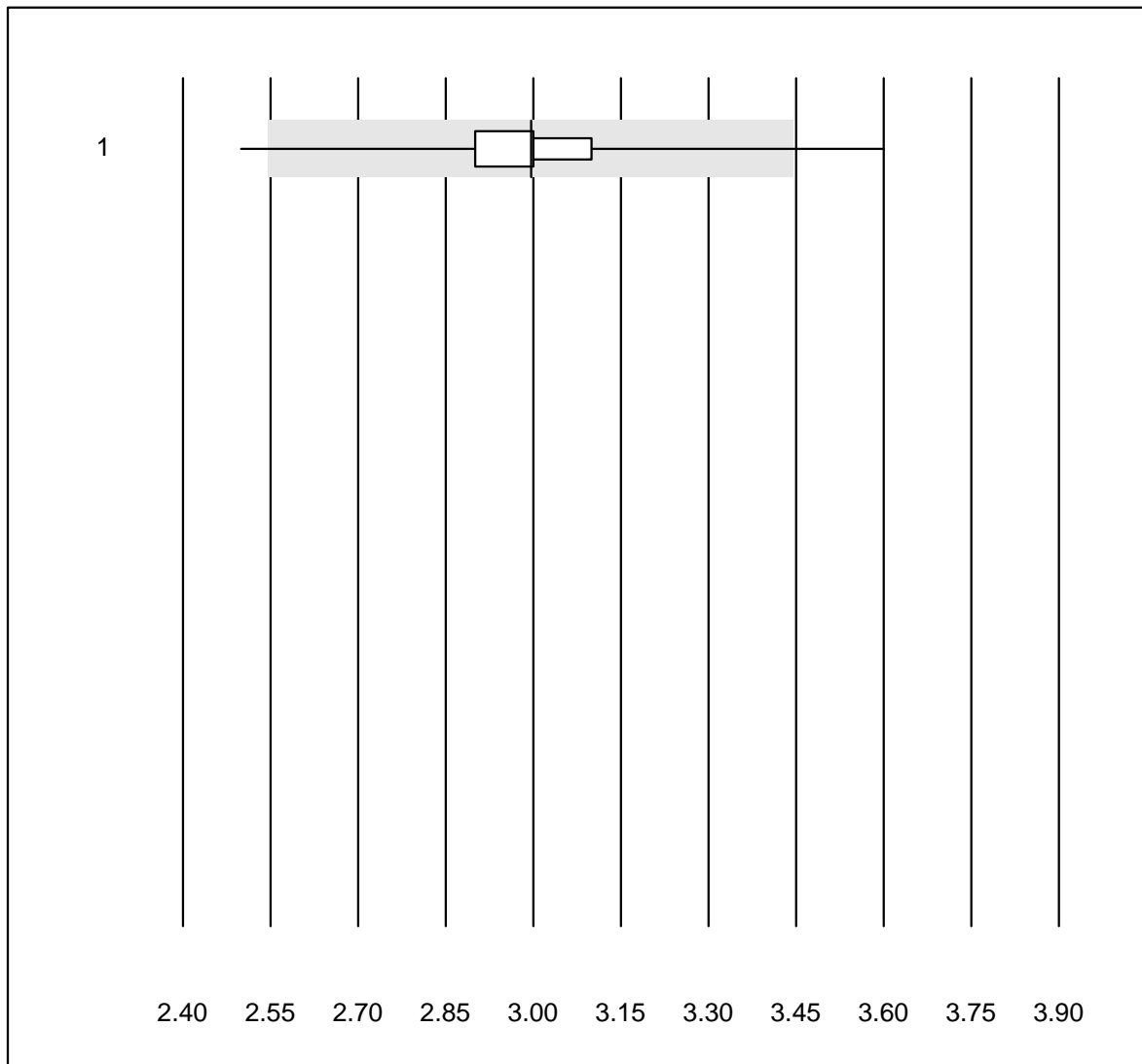


QUALAB tolerance : 25 %

CoaguChek APTT (Sek)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	CoaguChek Pro II	5	100.0	0.0	0.0	37.7	9.3	e*

INR CCXS

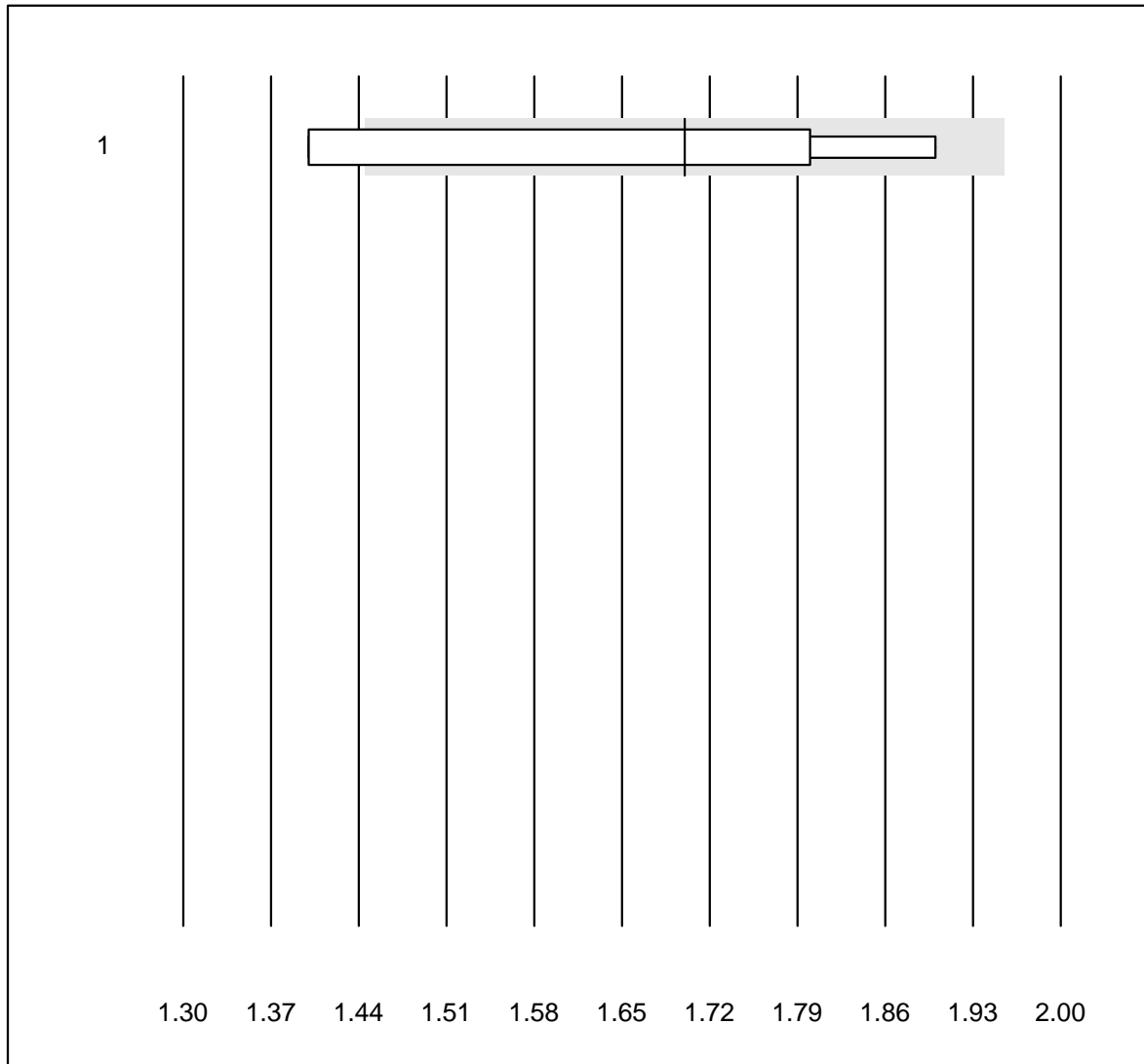


QUALAB tolerance : 15 %

INR CCXS ()

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	CoaguChek XS	1548	98.9	0.5	0.6	3.0	3.4	e

INR HC

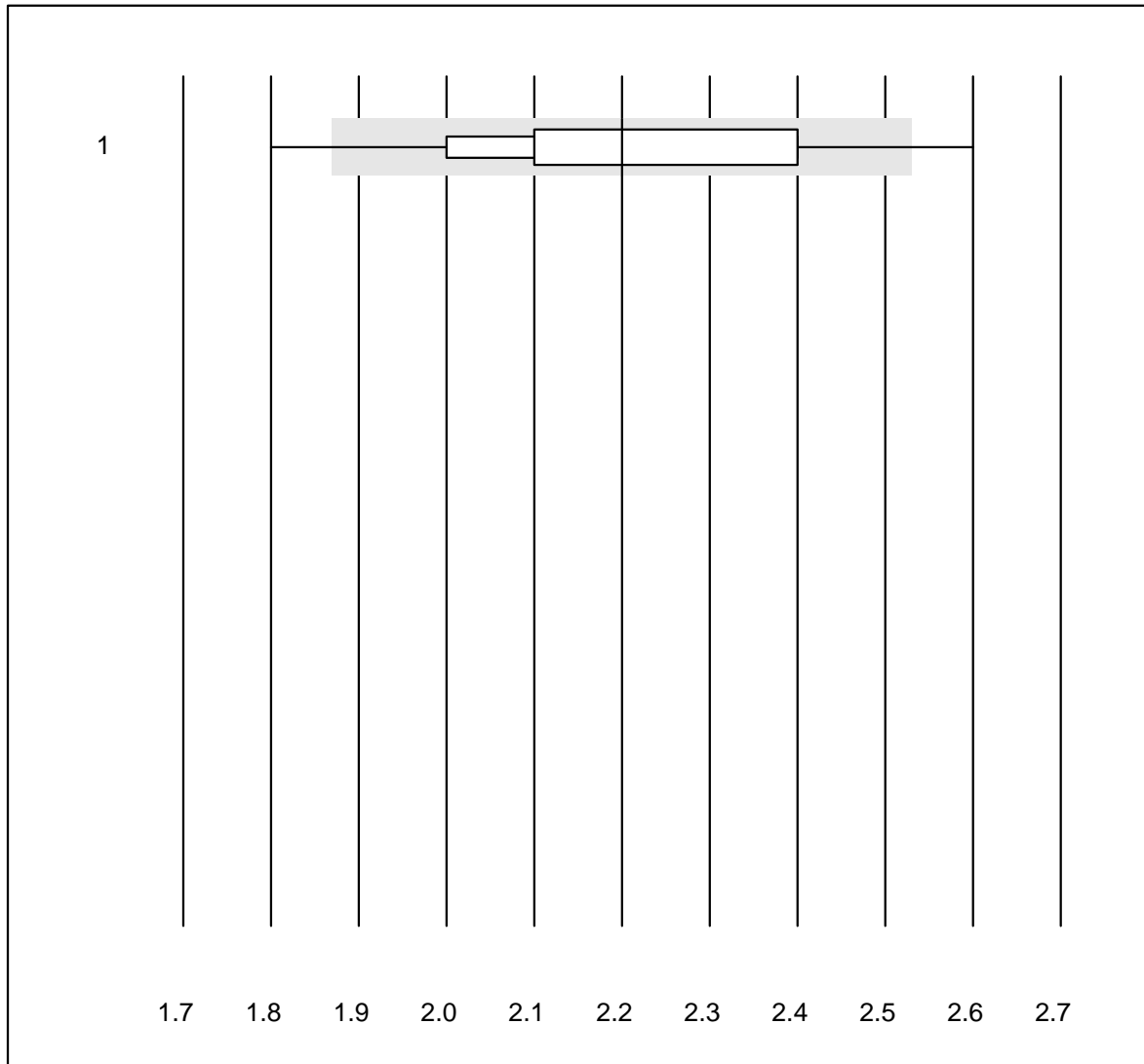


QUALAB tolerance : 15 %

INR HC ()

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Hemochron j.	8	62.5	25.0	12.5	1.7	11.8	e*

INR MI

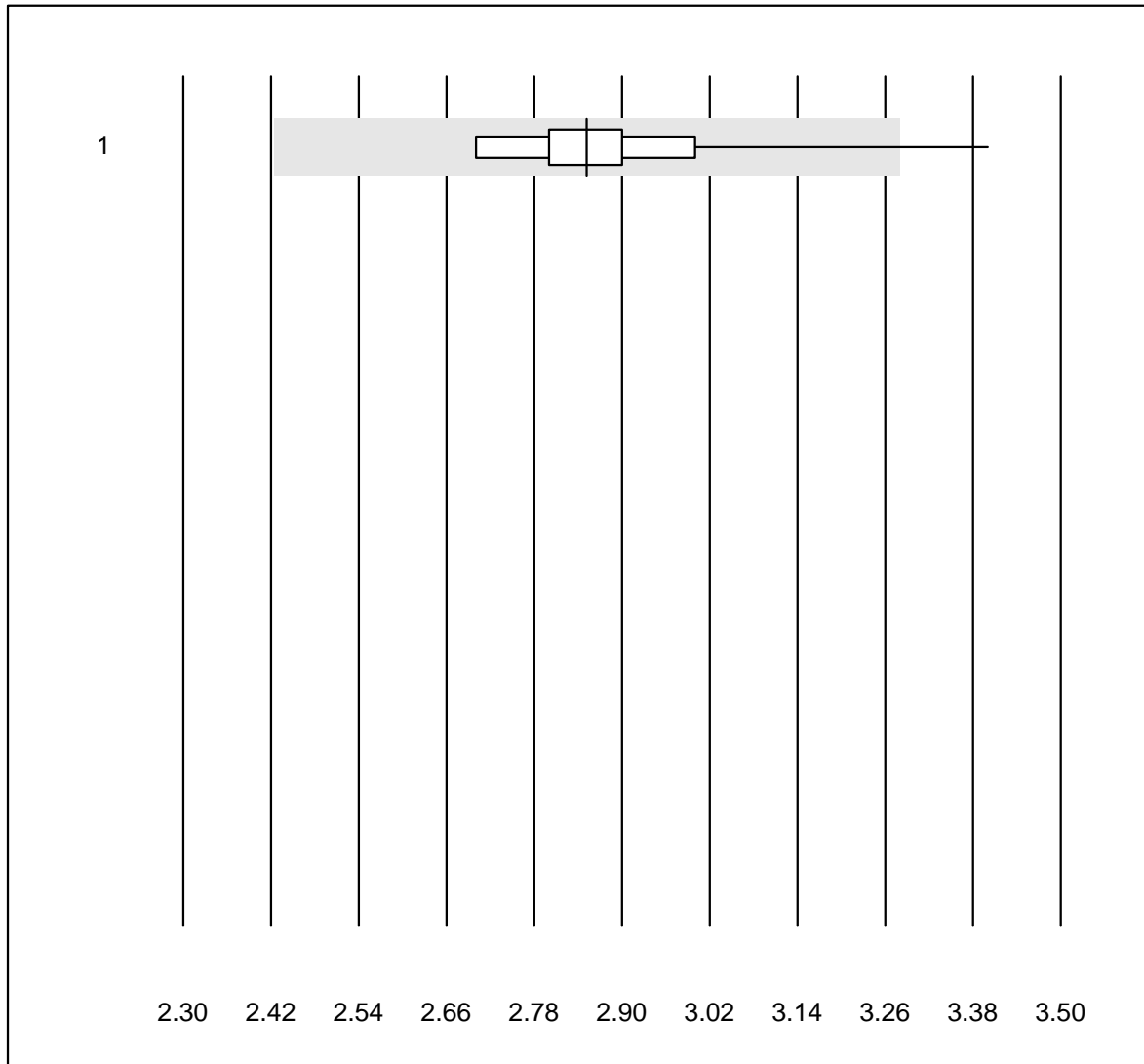


QUALAB tolerance : 15 %

INR MI ()

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 MicroINR	129	78.3	5.4	16.3	2.2	8.0	e

INR Xprecia

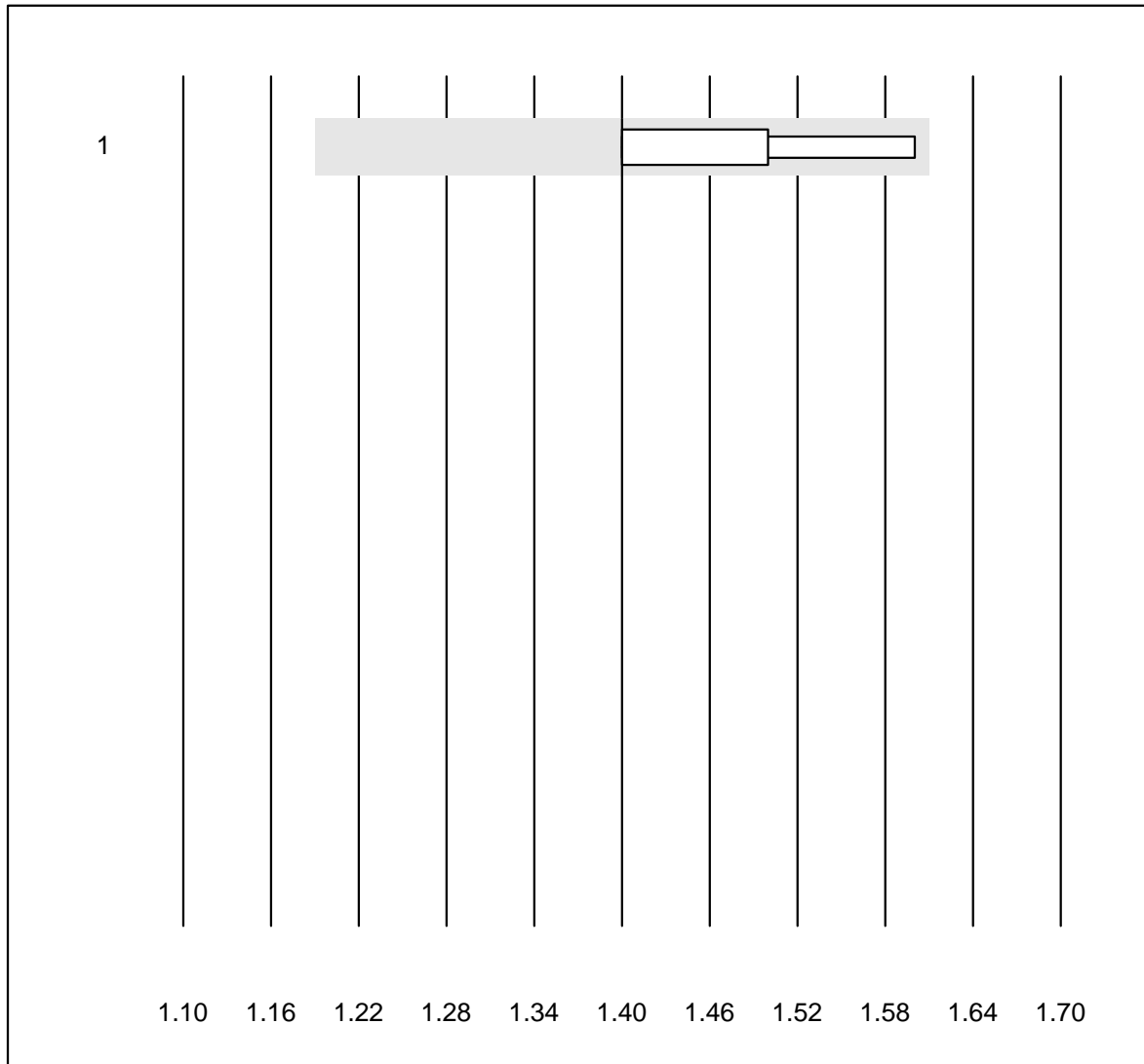


QUALAB tolerance : 15 %

INR Xprecia ()

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Xprecia	57	92.9	1.8	5.3	2.9	4.8	e

INR Lumira Dx

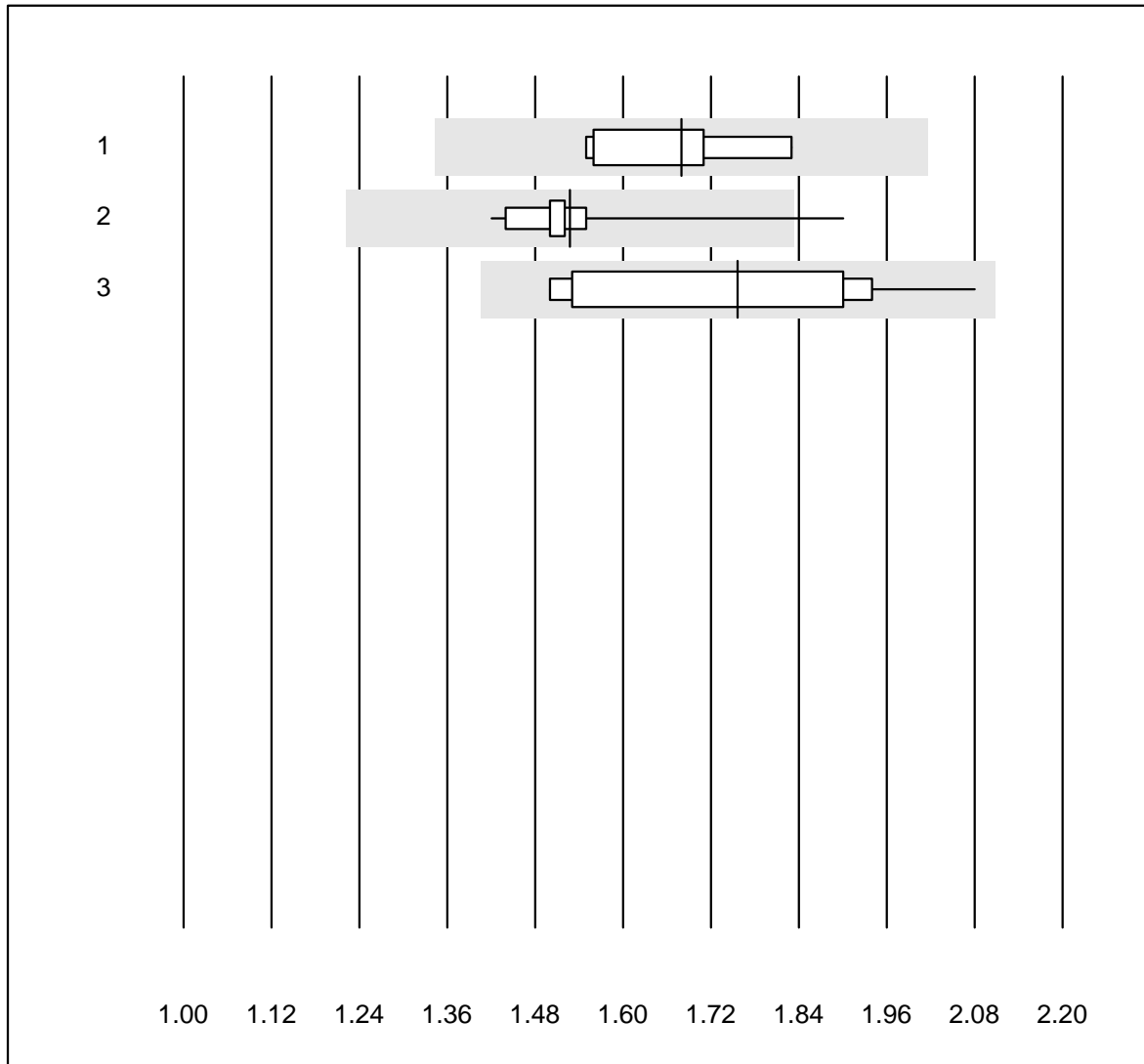


QUALAB tolerance : 15 %

INR Lumira Dx ()

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Lumira Dx	9	100.0	0.0	0.0	1.4	5.0	e

Anti-FXa (LMW-Heparin)

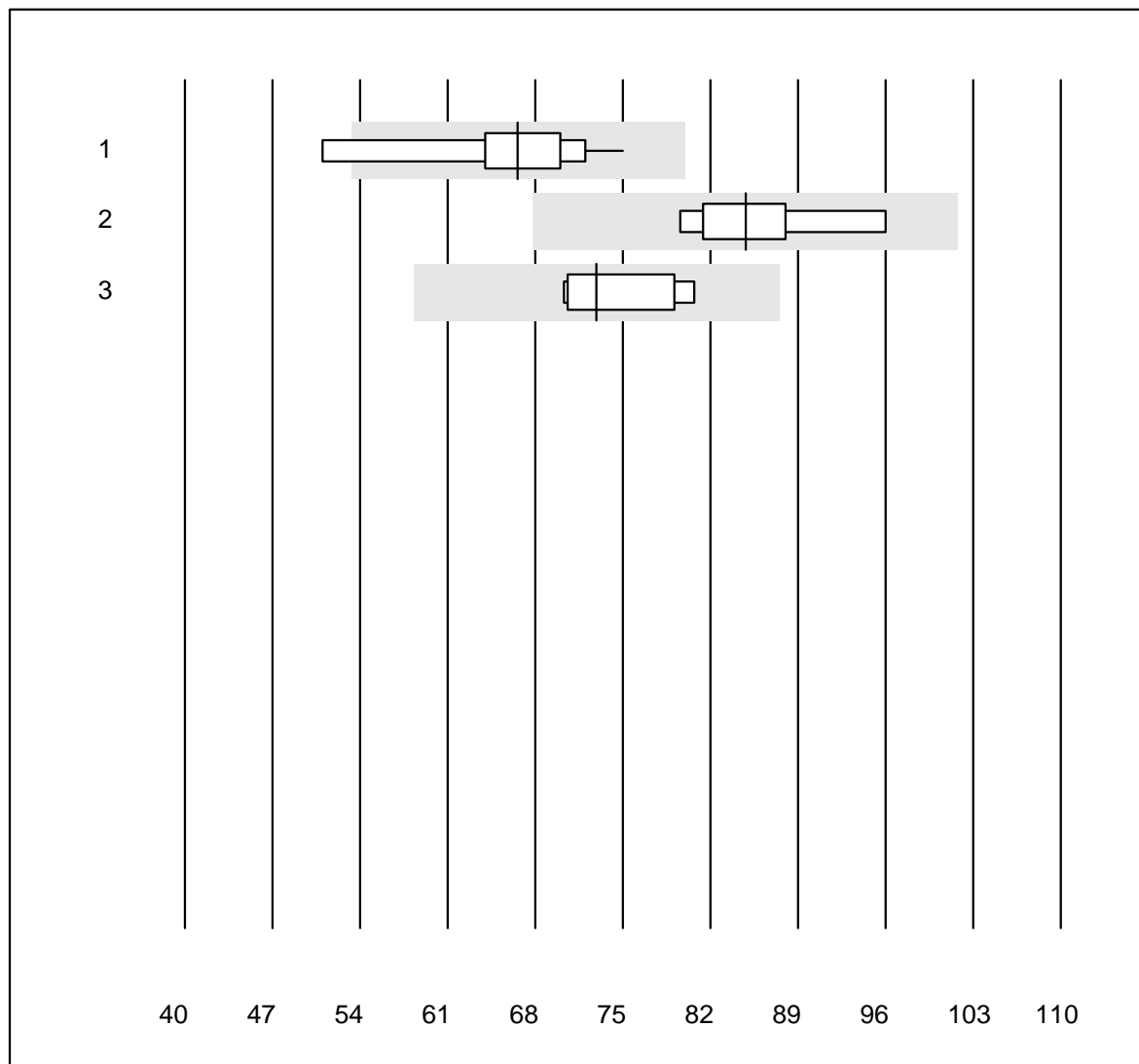


MQ tolerance : 20 %

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

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Stago/STA	8	100.0	0.0	0.0	1.68	5.7	e
2 ACL	14	85.8	7.1	7.1	1.53	7.7	e
3 Other methods	15	100.0	0.0	0.0	1.76	10.8	e*

Anti-FXa (Rivaroxaban)



MQ tolerance : 20 %

Anti-FXa (Rivaroxaban) (µg/l)

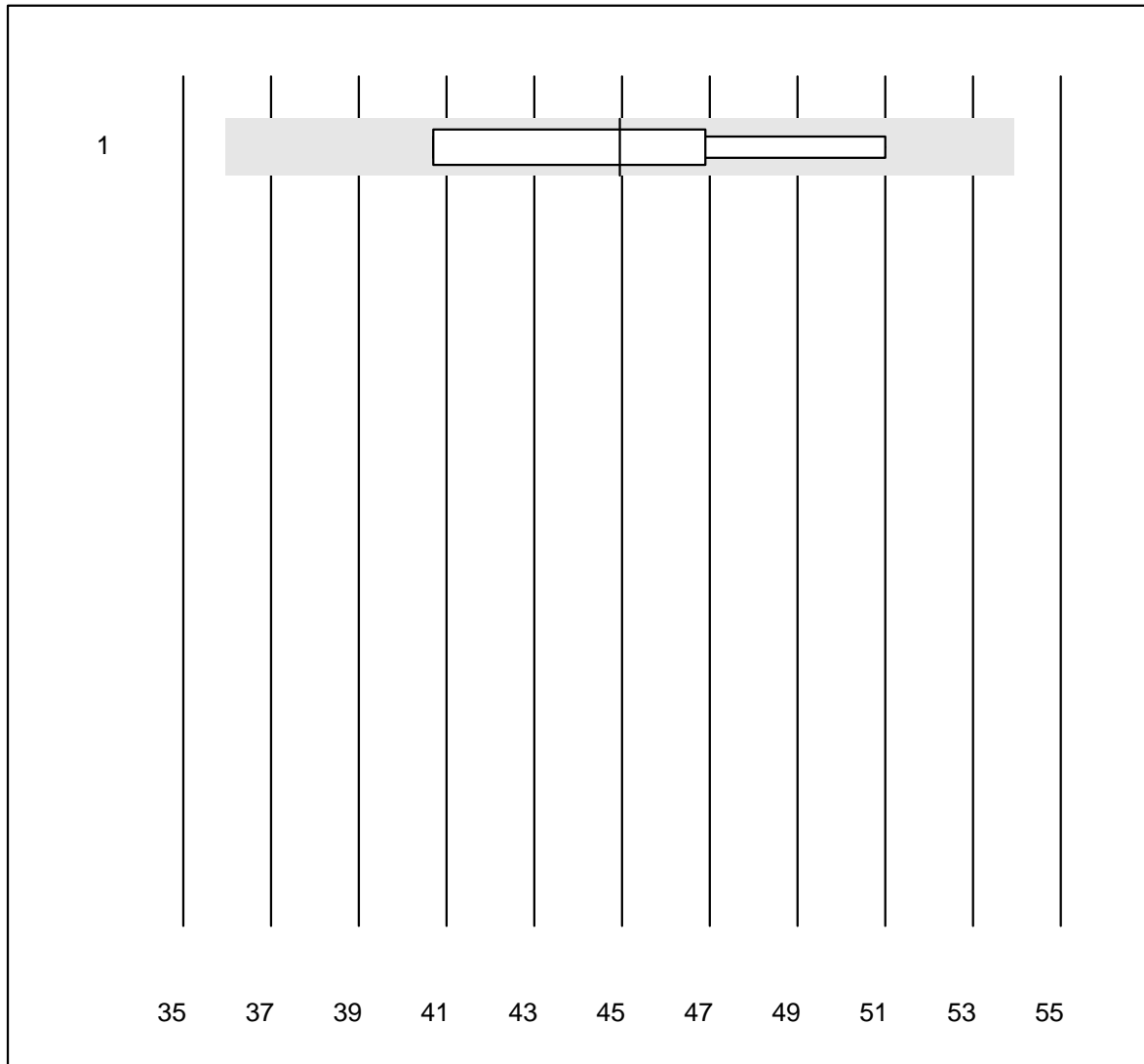
No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Stago/STA	10	90.0	10.0	0.0	66.60	9.8	e*
2 ACL	5	100.0	0.0	0.0	84.80	7.5	e*
3 Other methods	7	100.0	0.0	0.0	72.90	5.8	e

Anti-FXa (Apixaban)



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ACL	4	100.0	0.0	0.0	81.45	5.6	e*
2	Other methods	5	80.0	20.0	0.0	65.00	11.4	e*

Anti-FXa (Edoxaban)

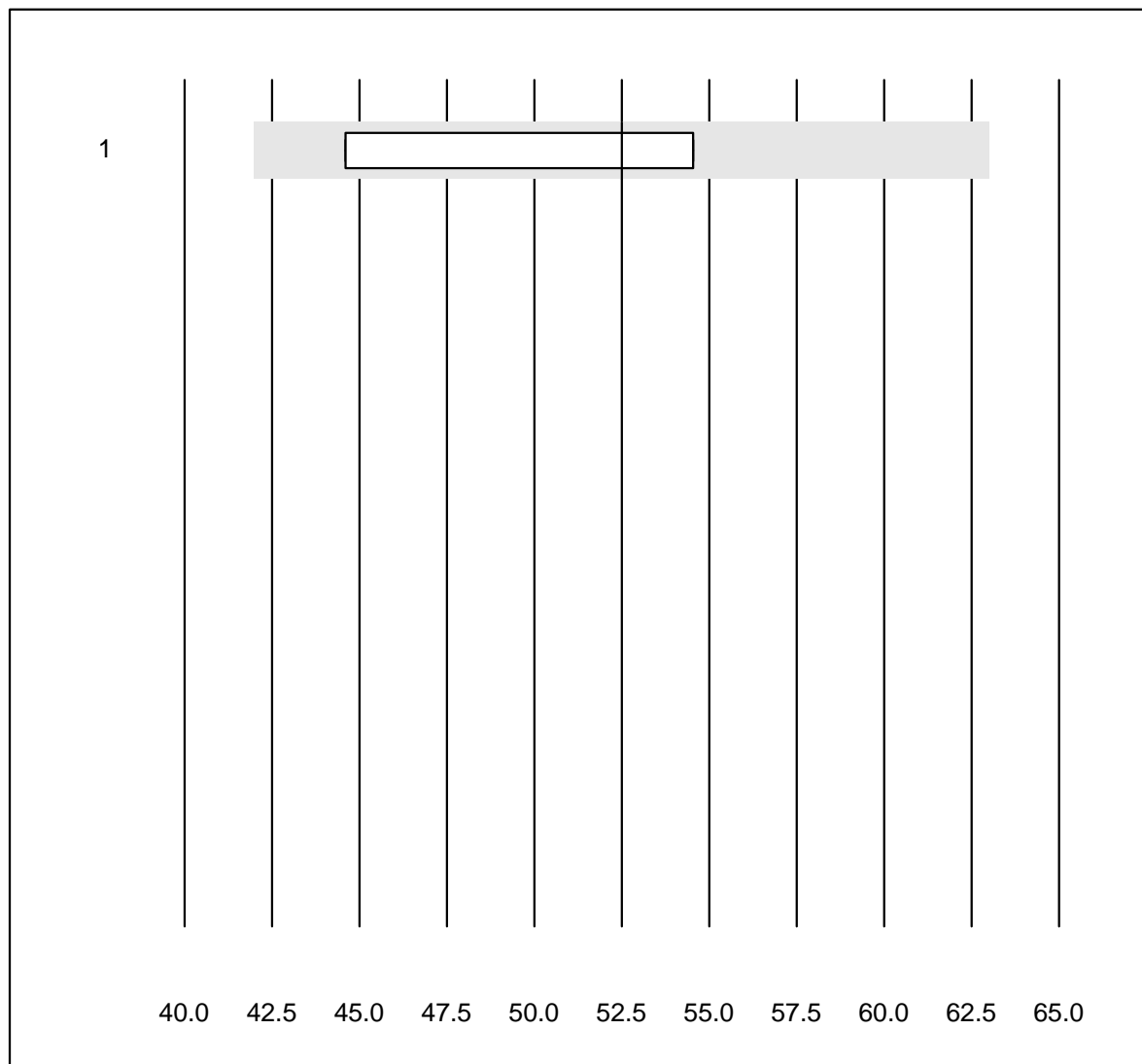


MQ tolerance : 20 %

Anti-FXa (Edoxaban) (µg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	4	100.0	0.0	0.0	44.95	10.0	e*

Anti-FIIa (Dabigatran)

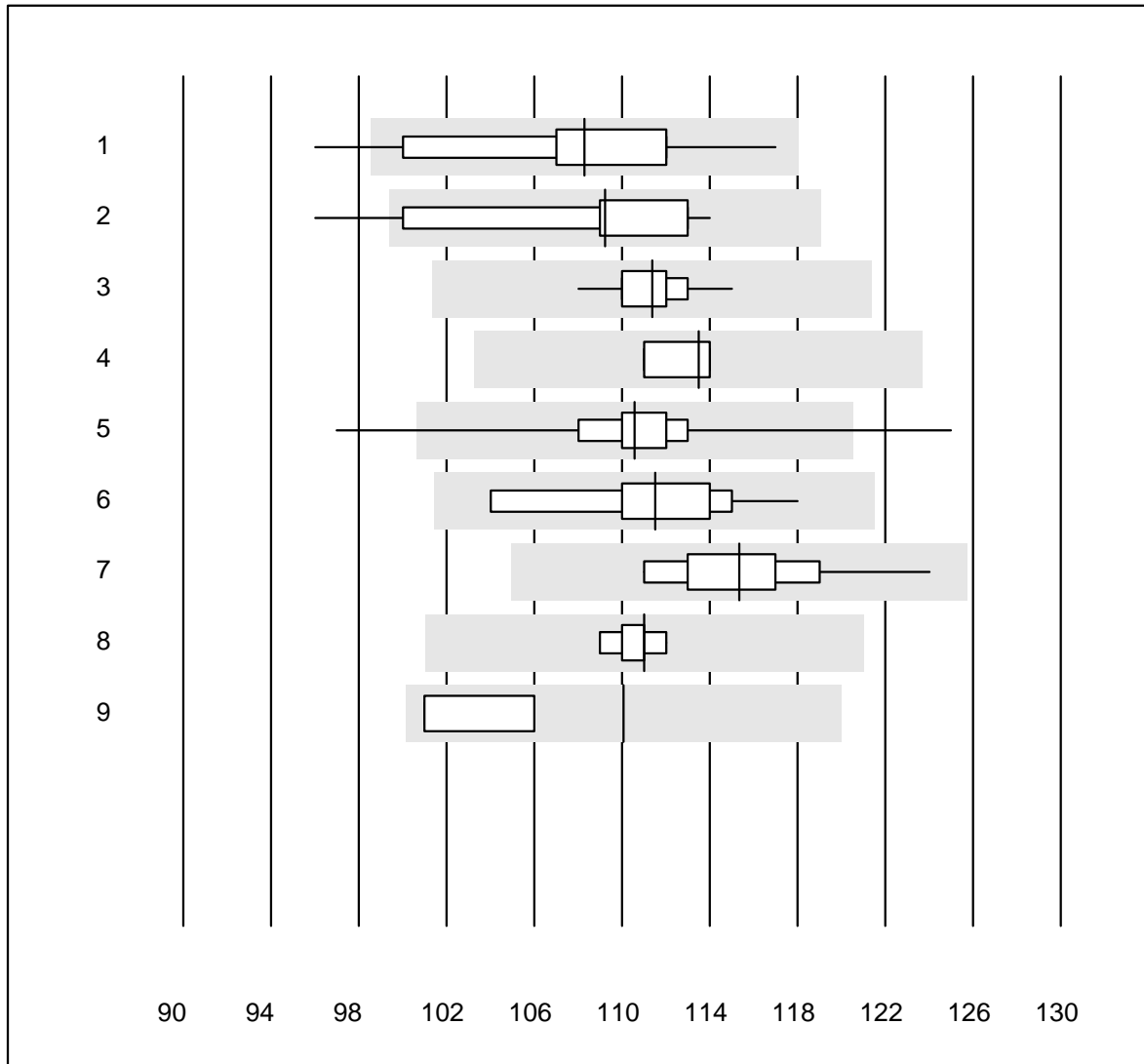


MQ tolerance : 20 %

Anti-FIIa (Dabigatran) (µg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	4	75.0	0.0	25.0	52.50	10.0	e*

Hemoglobin



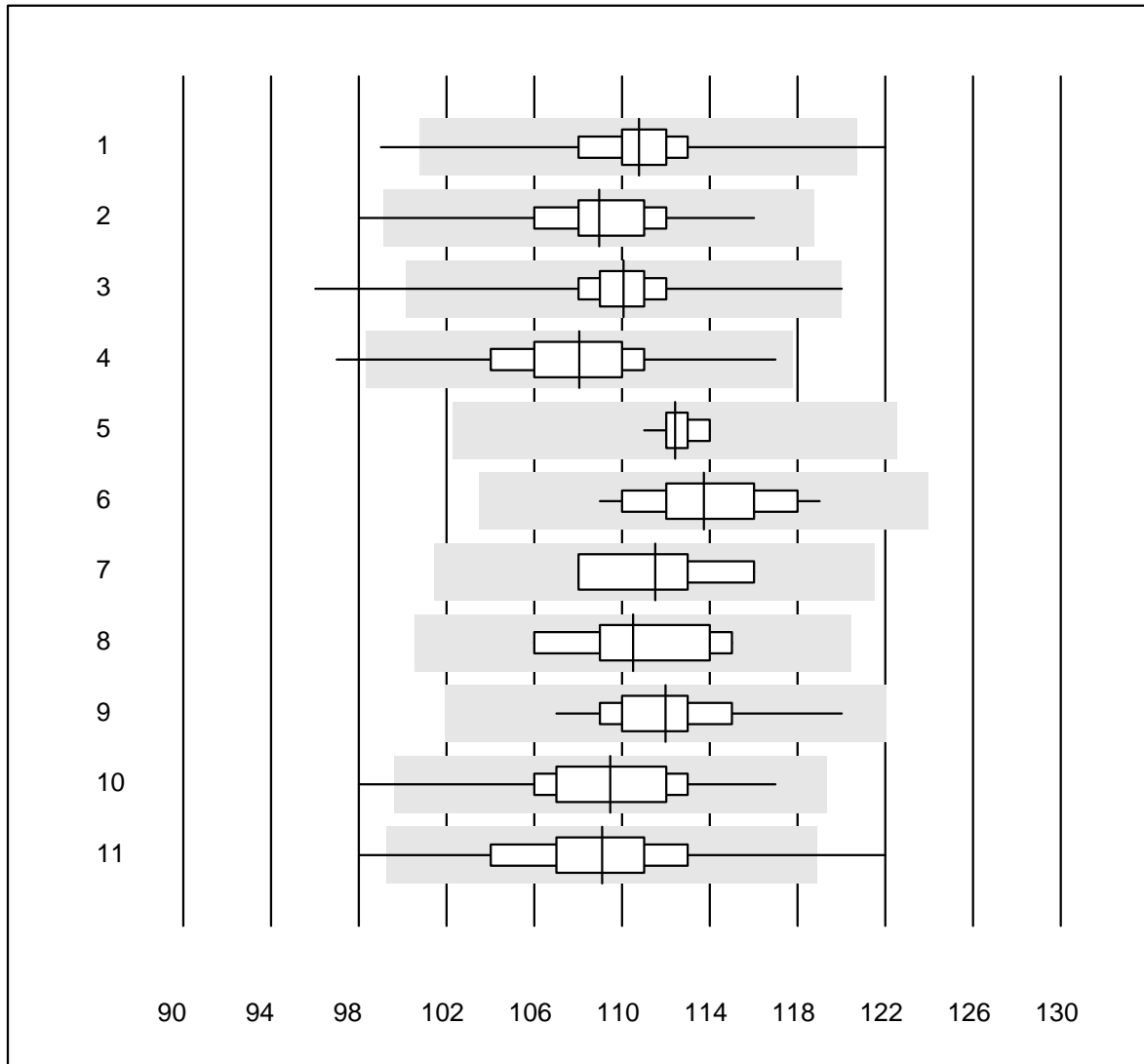
QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Automat	14	92.9	7.1	0.0	108.3	4.8	e*
2	Cyanmethemoglobin	17	94.1	5.9	0.0	109.2	4.6	e*
3	Sysmex X	48	97.9	0.0	2.1	111.4	1.4	e
4	Advia 120	4	100.0	0.0	0.0	113.5	1.3	e
5	Hemocue	418	94.9	1.0	4.1	110.6	2.4	e
6	Hemocontrol	10	100.0	0.0	0.0	111.5	3.4	e
7	DiaSpect	13	92.3	0.0	7.7	115.4	3.2	e
8	Sysmex	9	100.0	0.0	0.0	111.0	0.8	e
9	Other methods	4	50.0	0.0	50.0	110.1	3.4	a

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

Hemoglobin

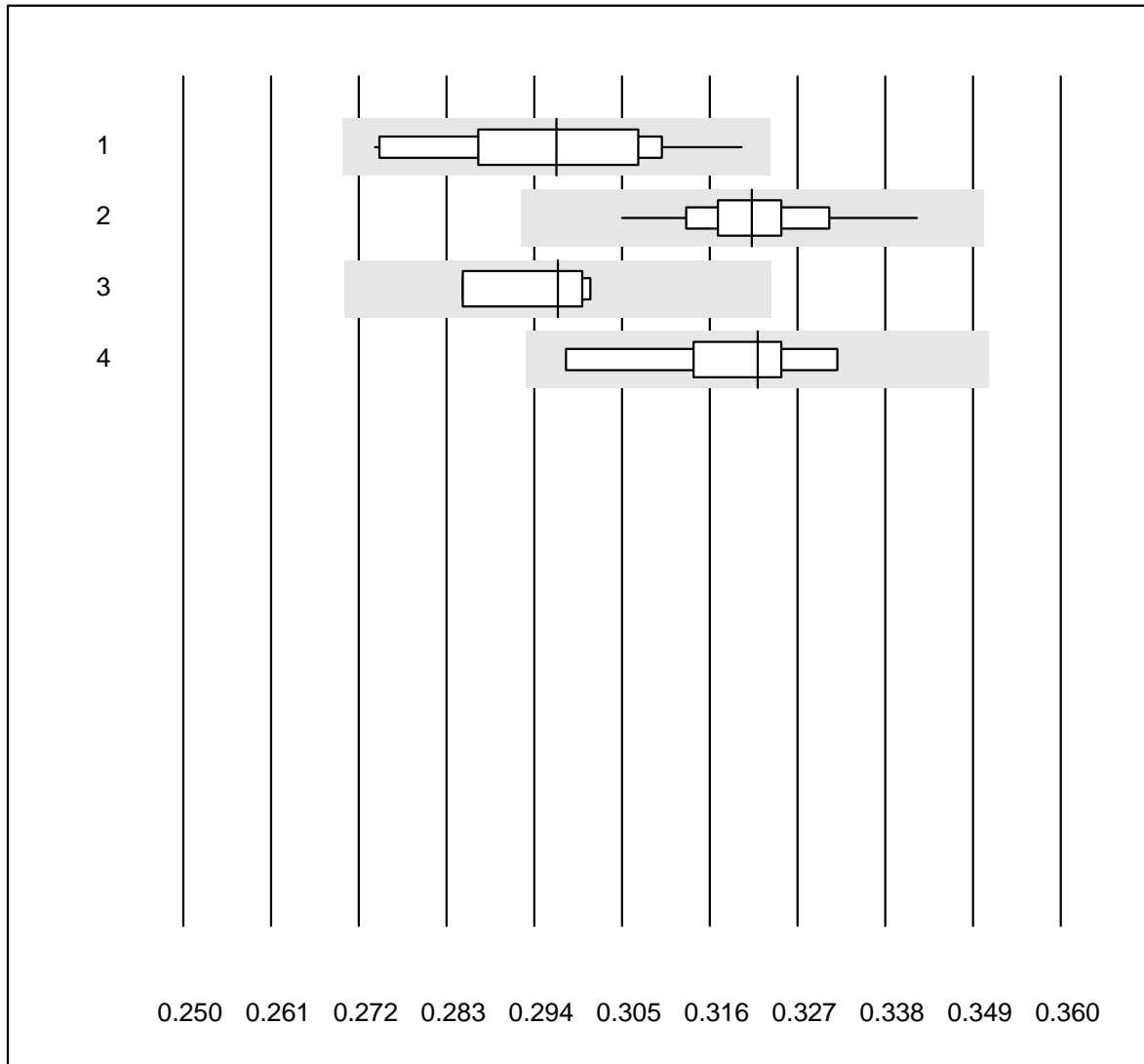


QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex KX21	166	95.8	1.8	2.4	110.8	2.1	e
2	Sysmex Poch - 100i	199	94.5	1.5	4.0	109.0	2.5	e
3	Sysmex XP 300	628	97.0	0.8	2.2	110.1	1.8	e
4	Mythic	251	96.4	0.4	3.2	108.0	2.8	e
5	Sysmex QX-320	12	100.0	0.0	0.0	112.4	0.8	e
6	Swelab	29	100.0	0.0	0.0	113.7	2.6	e
7	Abacus Junior	4	100.0	0.0	0.0	111.5	3.1	e*
8	Medonic	6	100.0	0.0	0.0	110.5	3.0	e*
9	Celltac Alpha (Nihon	86	95.3	0.0	4.7	112.0	2.0	e
10	Samsung HC10	20	90.0	5.0	5.0	109.5	3.5	e
11	Micros 60	89	93.3	5.6	1.1	109.1	3.7	e

Hematocrit



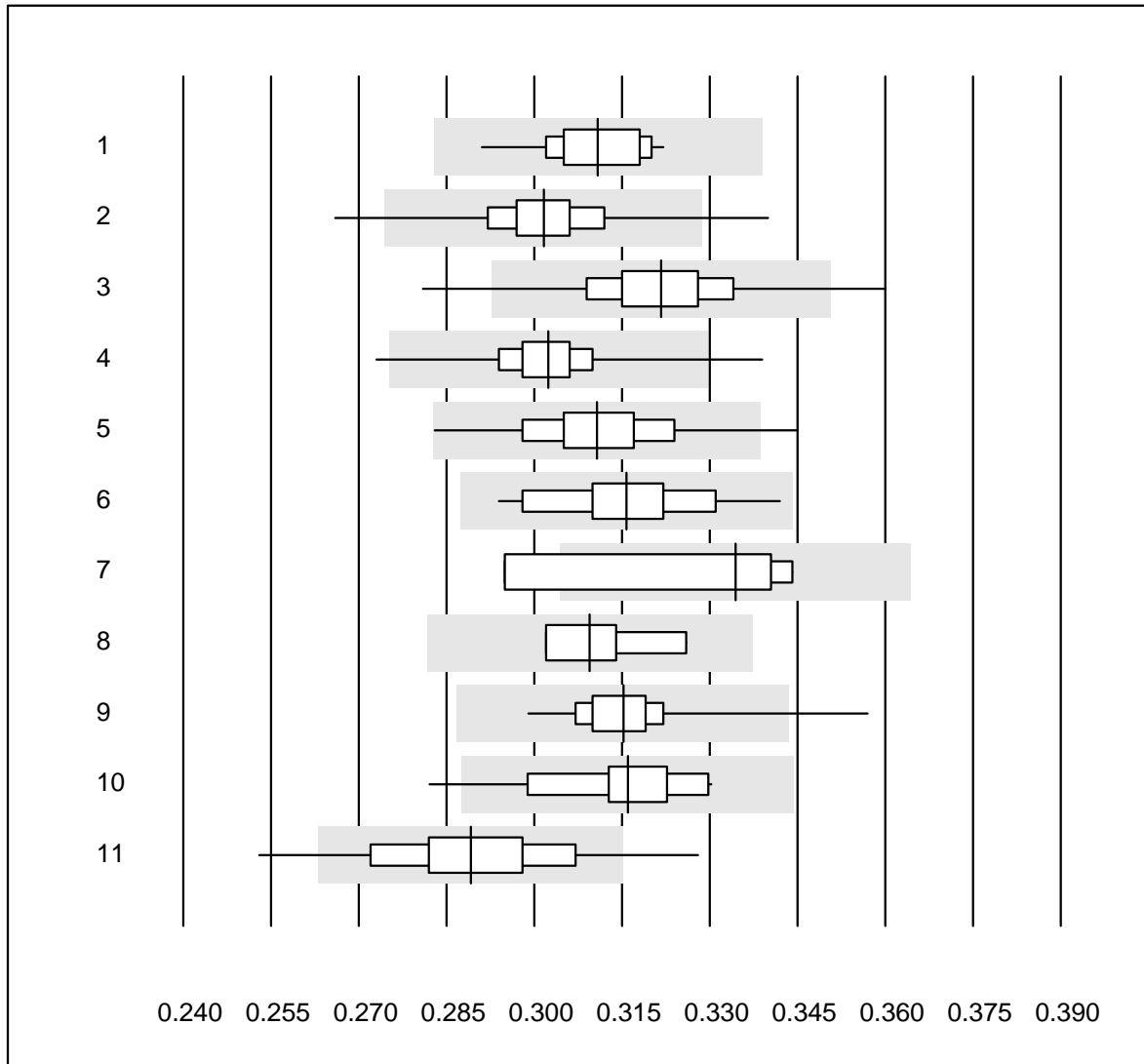
QUALAB tolerance : 9 %

Hematocrit (l/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Automat	15	93.3	0.0	6.7	0.30	4.8	e*
2 Sysmex X	48	97.9	0.0	2.1	0.32	2.3	e
3 Advia 120	4	100.0	0.0	0.0	0.30	2.5	e*
4 Sysmex	9	100.0	0.0	0.0	0.32	3.2	e

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

Hematocrit

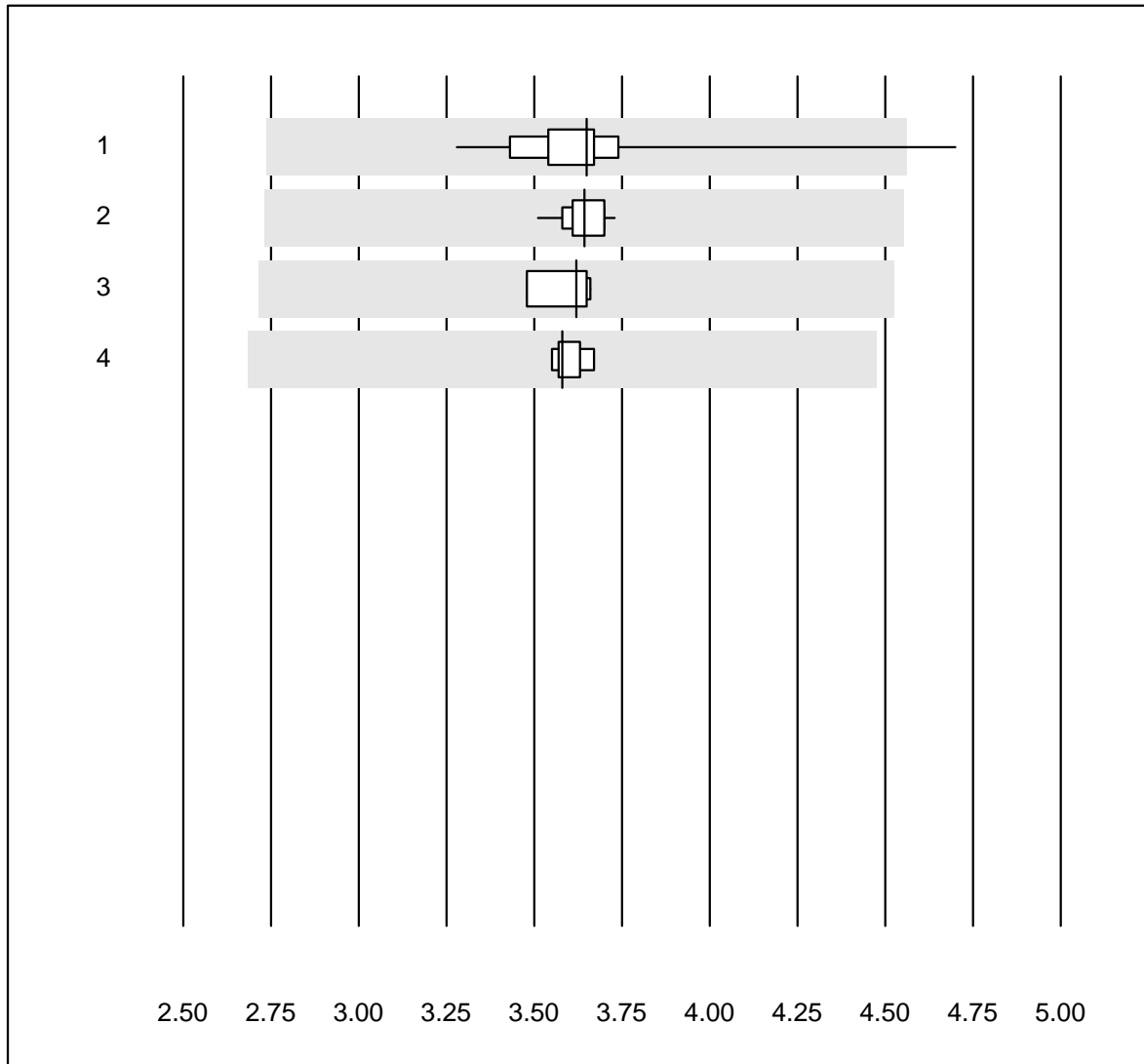


QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex QX-320	12	100.0	0.0	0.0	0.31	2.9	e
2	Sysmex KX21	166	95.8	2.4	1.8	0.30	2.9	e
3	Sysmex PochH - 100i	199	95.0	2.0	3.0	0.32	3.4	e
4	Sysmex XP 300	628	97.6	0.3	2.1	0.30	2.2	e
5	Mythic	252	96.0	0.4	3.6	0.31	3.3	e
6	Swelab	29	100.0	0.0	0.0	0.32	3.8	e
7	Abacus Junior	4	75.0	25.0	0.0	0.33	6.9	e*
8	Medonic	6	100.0	0.0	0.0	0.31	2.9	e*
9	Celltac Alpha (Nihon	86	93.0	1.2	5.8	0.32	2.6	e
10	Samsung HC10	20	90.0	5.0	5.0	0.32	3.7	e
11	Micros 60	89	89.9	7.9	2.2	0.29	4.6	e

Erythrocytes



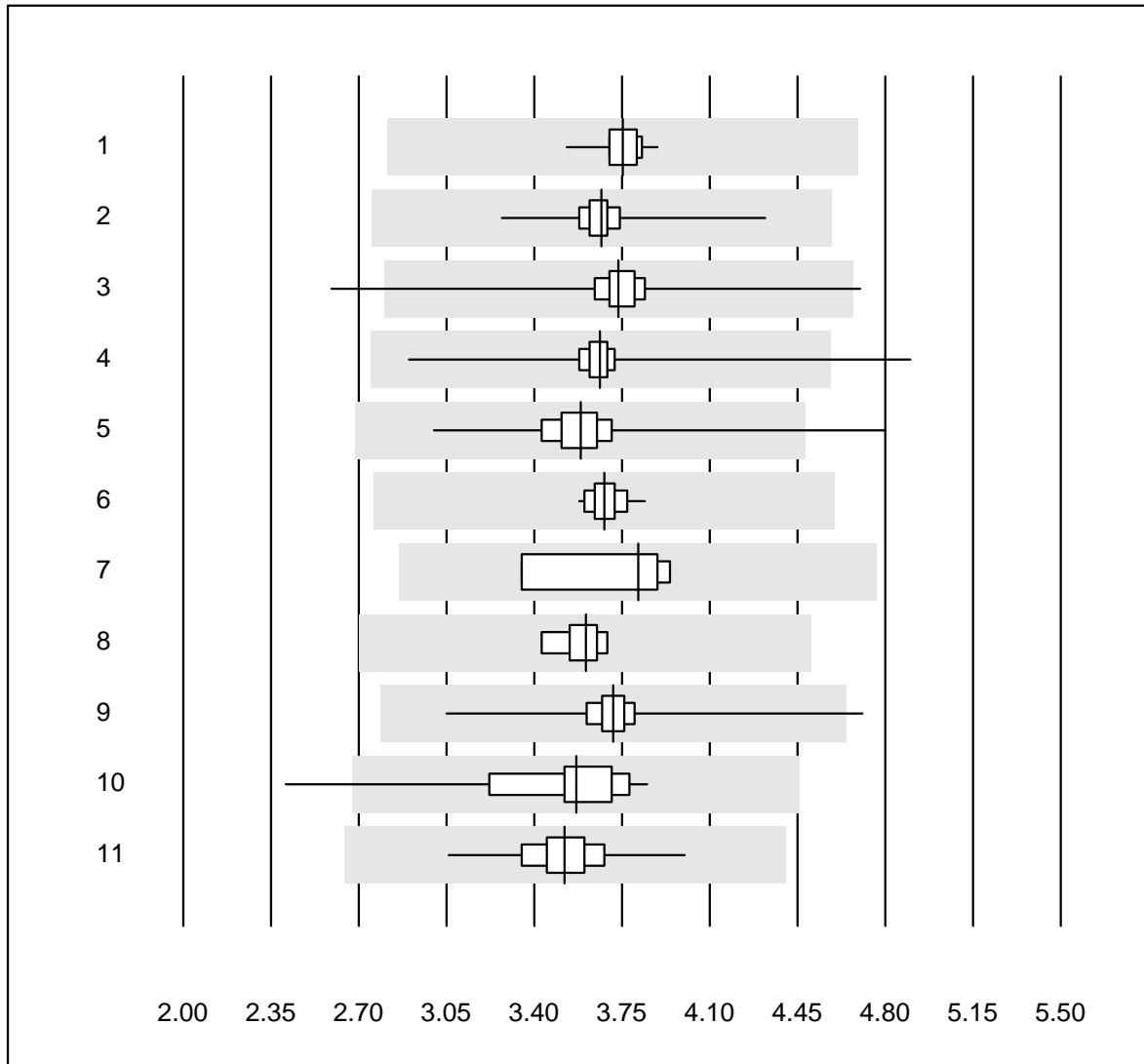
QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Automat	13	92.3	7.7	0.0	3.65	9.3	e
2	Sysmex X	48	97.9	0.0	2.1	3.64	1.5	e
3	Advia 120	4	100.0	0.0	0.0	3.62	2.3	e
4	Sysmex	9	100.0	0.0	0.0	3.58	1.1	e

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

Erythrocytes

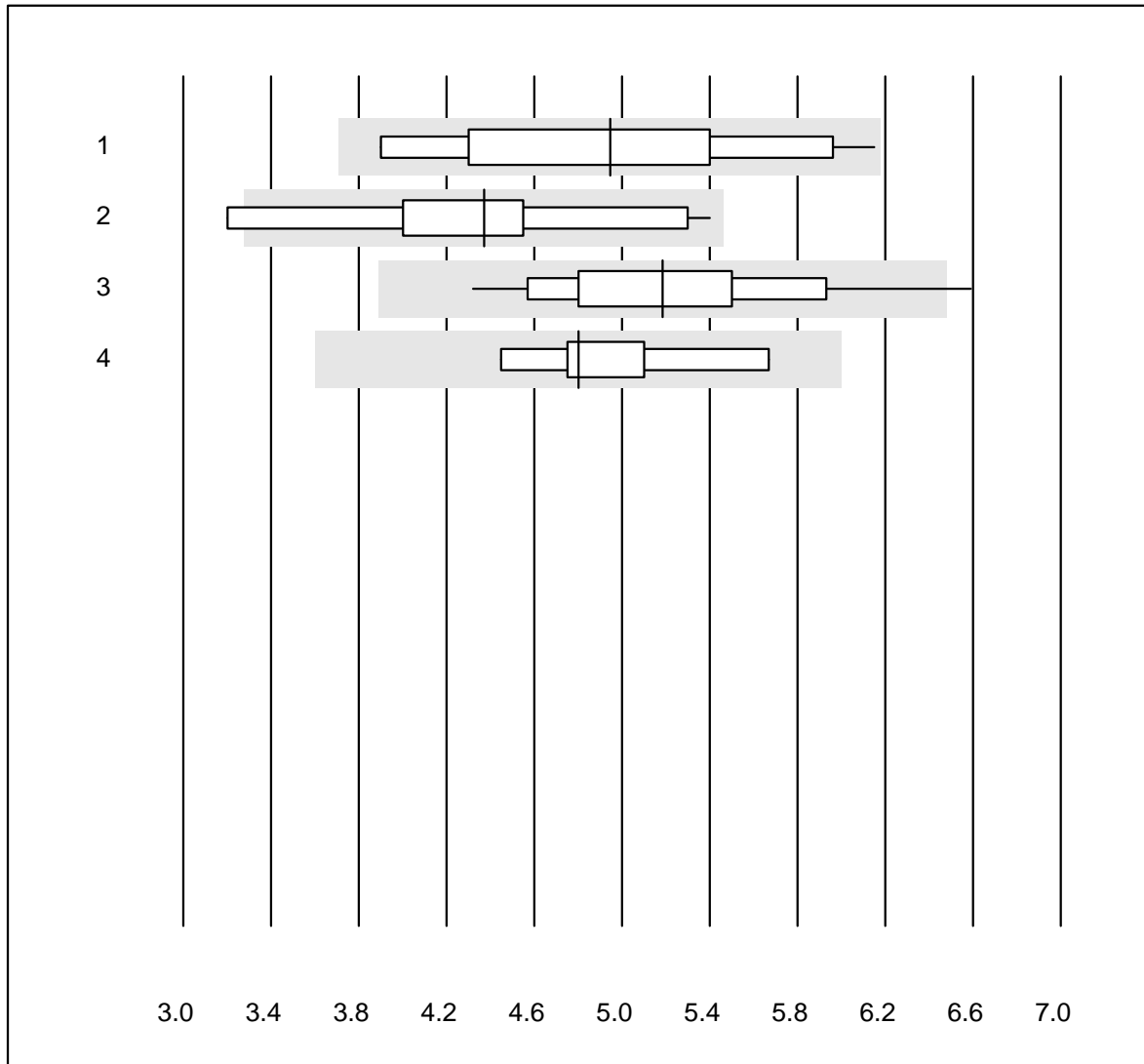


QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex QX-320	12	100.0	0.0	0.0	3.75	2.4	e
2	Sysmex KX21	166	98.8	0.0	1.2	3.67	3.1	e
3	Sysmex PochH - 100i	199	97.5	1.5	1.0	3.74	4.9	e
4	Sysmex XP 300	628	98.1	0.6	1.3	3.66	3.5	e
5	Mythic	251	98.4	0.4	1.2	3.59	4.7	e
6	Swelab	29	100.0	0.0	0.0	3.68	1.8	e
7	Abacus Junior	4	100.0	0.0	0.0	3.82	7.2	e*
8	Medonic	6	100.0	0.0	0.0	3.61	2.6	e
9	Celltac Alpha (Nihon	86	95.3	1.2	3.5	3.71	4.1	e
10	Samsung HC10	20	95.0	5.0	0.0	3.57	8.5	e
11	Micros 60	89	100.0	0.0	0.0	3.52	4.7	e

Leucocytes



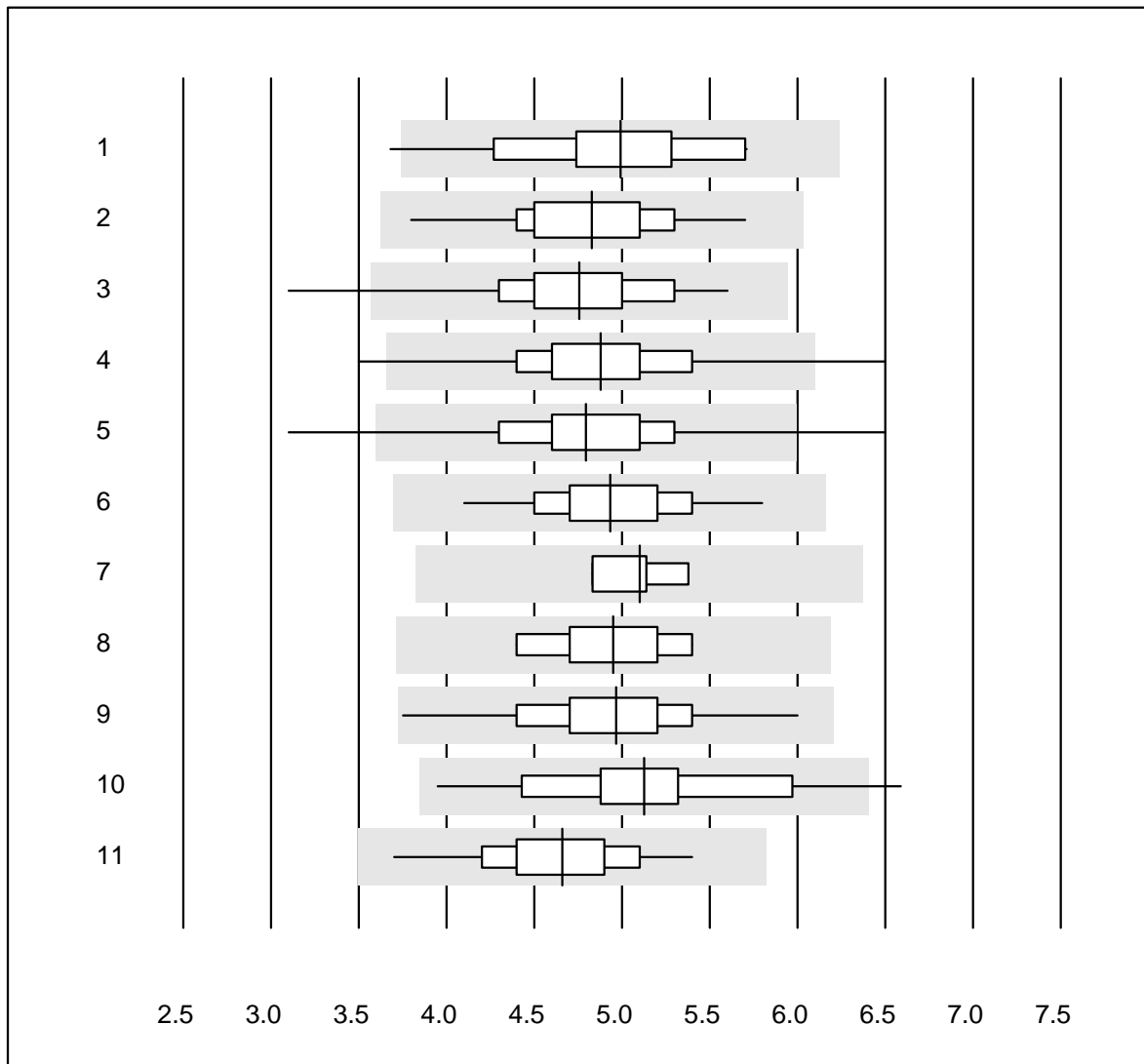
QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Automat	14	100.0	0.0	0.0	4.95	14.7	e*
2	Microscopic	10	90.0	10.0	0.0	4.37	14.8	e*
3	Sysmex X	48	97.9	2.1	0.0	5.19	9.2	e
4	Sysmex	9	100.0	0.0	0.0	4.80	7.4	e

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

Leucocytes



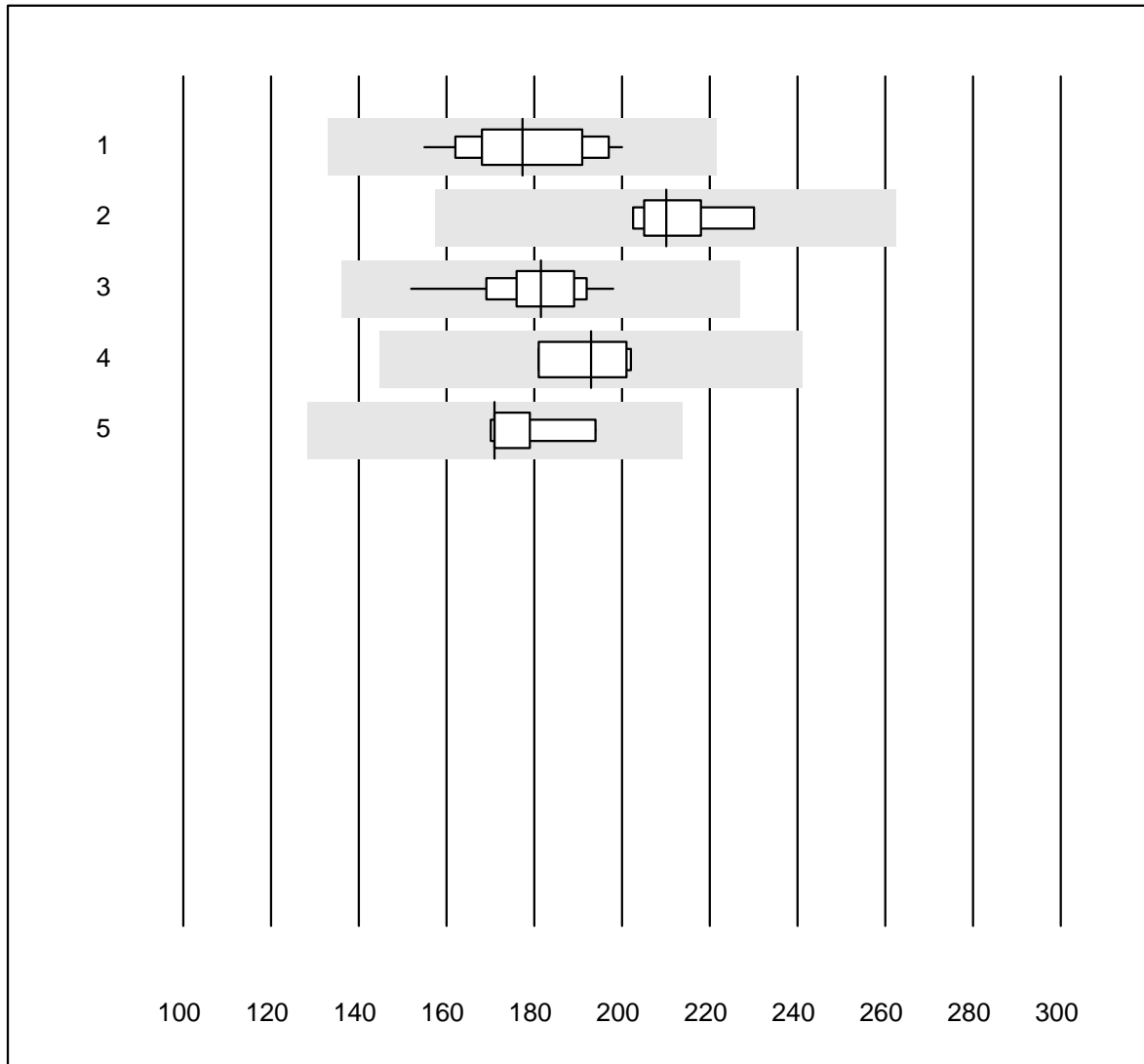
QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex QX-320	12	91.7	8.3	0.0	4.99	11.5	e*
2	Sysmex KX21	166	99.4	0.0	0.6	4.83	7.5	e
3	Sysmex PochH - 100i	199	97.0	1.5	1.5	4.76	8.5	e
4	Sysmex XP 300	628	99.1	0.6	0.3	4.88	8.0	e
5	Mythic	249	97.2	2.0	0.8	4.80	8.8	e
6	Swelab	29	100.0	0.0	0.0	4.93	7.3	e
7	Abacus Junior	4	100.0	0.0	0.0	5.10	4.4	e
8	Medonic	6	100.0	0.0	0.0	4.95	7.4	e*
9	Celltac Alpha (Nihon)	86	100.0	0.0	0.0	4.97	8.6	e
10	Samsung HC10	20	90.0	5.0	5.0	5.12	11.2	e
11	Micros 60	89	97.8	0.0	2.2	4.66	7.8	e

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

Thrombocytes



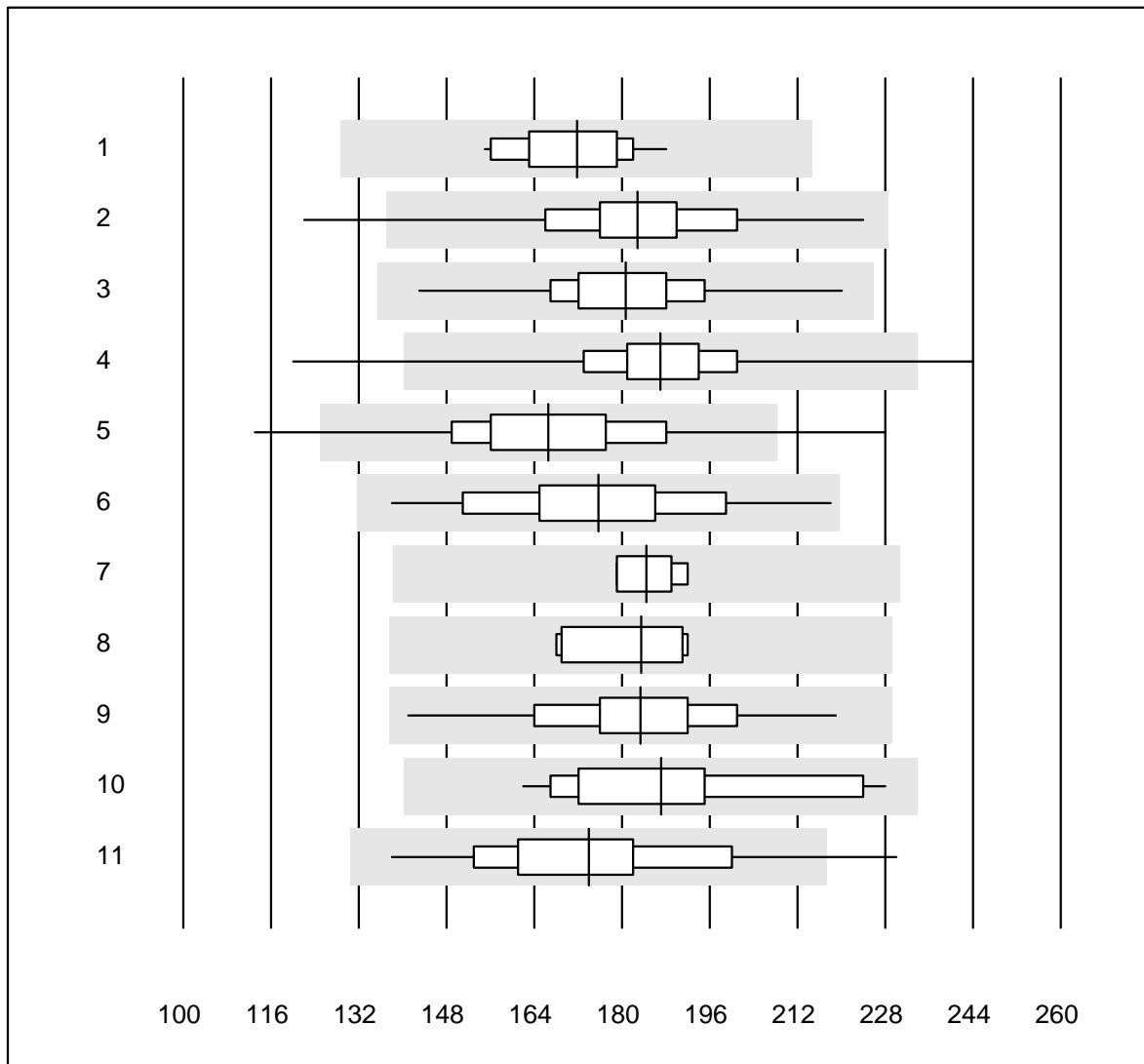
QUALAB tolerance : 25 %

Thrombocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Automat	12	91.7	0.0	8.3	177.3	7.9	e
2	Microscopic	6	83.3	0.0	16.7	210.0	5.1	e
3	Sysmex X	48	100.0	0.0	0.0	181.5	5.1	e
4	Advia 120	4	100.0	0.0	0.0	193.0	5.6	e
5	Sysmex	9	100.0	0.0	0.0	171.0	4.9	e

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

Thrombocytes

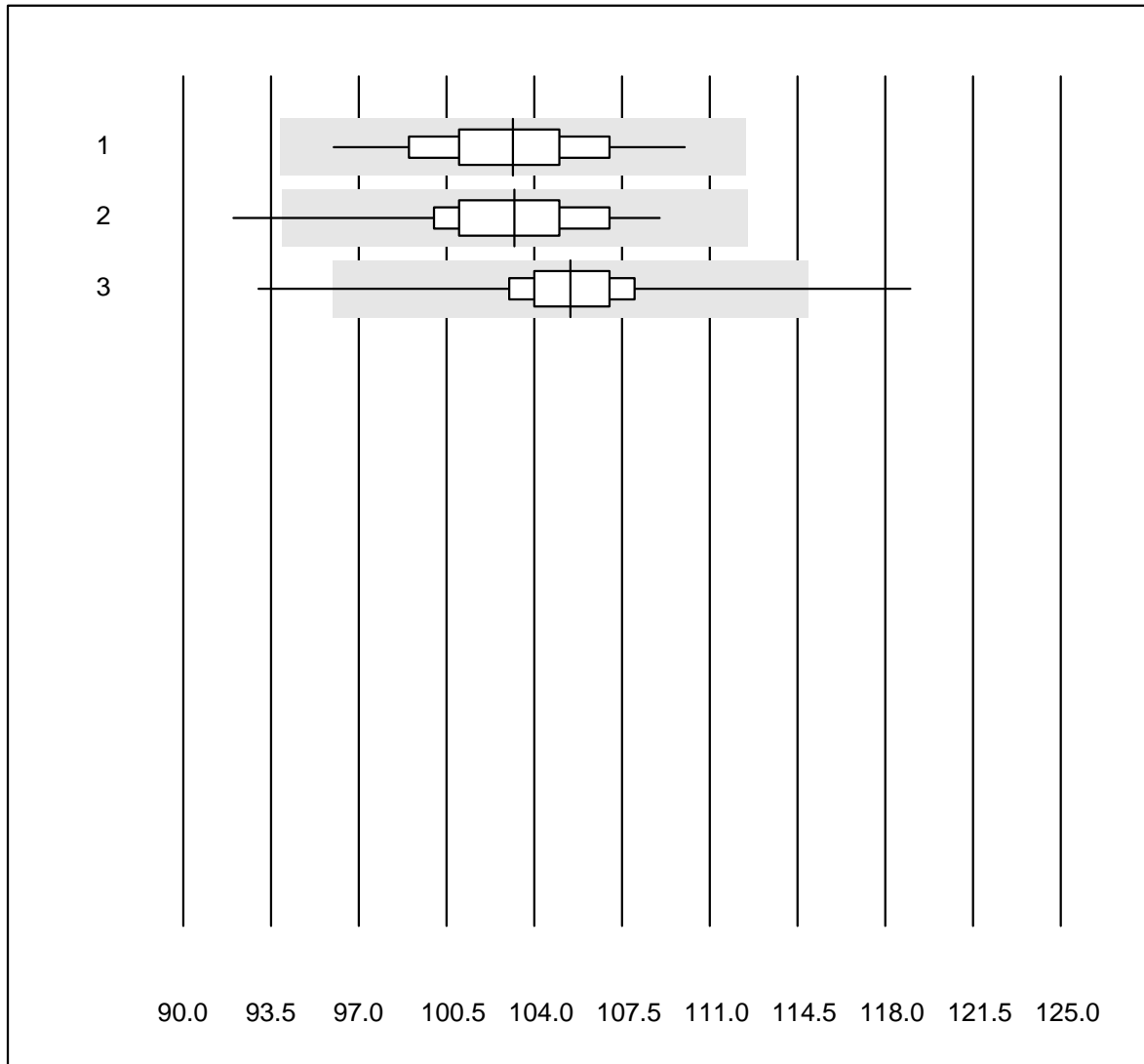


QUALAB tolerance : 25 %

Thrombocytes (G/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex QX-320	12	100.0	0.0	0.0	171.8	6.2	e
2	Sysmex KX21	166	98.2	0.6	1.2	182.8	7.6	e
3	Sysmex PochH - 100i	199	99.0	0.0	1.0	180.7	6.6	e
4	Sysmex XP 300	628	97.9	1.0	1.1	187.0	6.8	e
5	Mythic	251	95.2	2.8	2.0	166.6	10.0	e
6	Swelab	28	100.0	0.0	0.0	175.7	10.4	e
7	Abacus Junior	4	100.0	0.0	0.0	184.5	3.5	e
8	Medonic	6	100.0	0.0	0.0	183.5	5.8	e
9	Celltac Alpha (Nihon	86	98.8	0.0	1.2	183.3	8.3	e
10	Samsung HC10	20	95.0	0.0	5.0	187.2	10.1	e
11	Micros 60	89	96.7	1.1	2.2	173.9	10.5	e

Hemoglobin H2

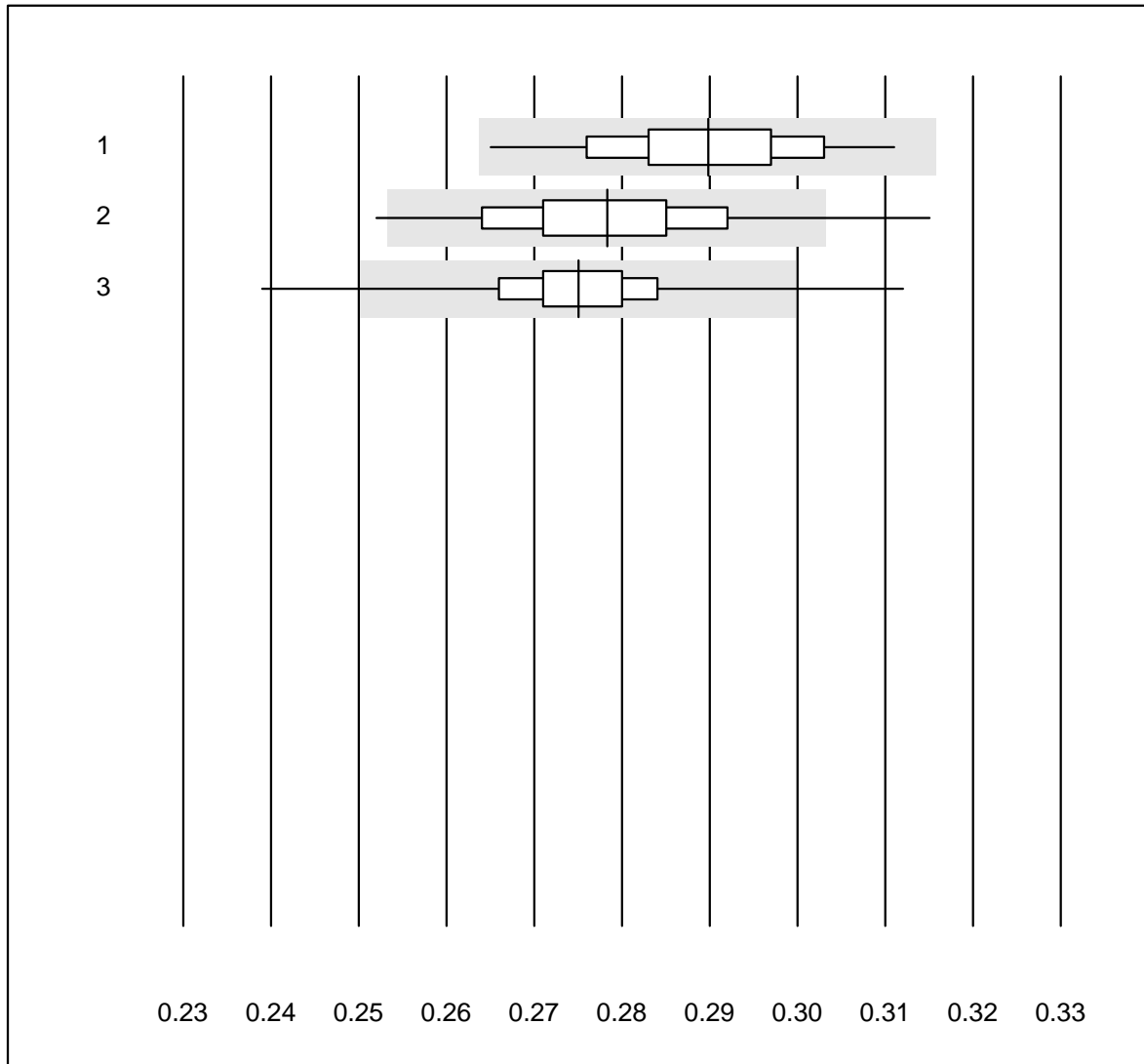


QUALAB tolerance : 9 %

Hemoglobin H2 (g/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	153	93.5	0.0	6.5	103.1	2.7	e
2 Abx Micros	74	91.8	1.4	6.8	103.2	3.0	e
3 Microsemi	857	95.2	0.5	4.3	105.4	2.3	e

Hematocrit H2

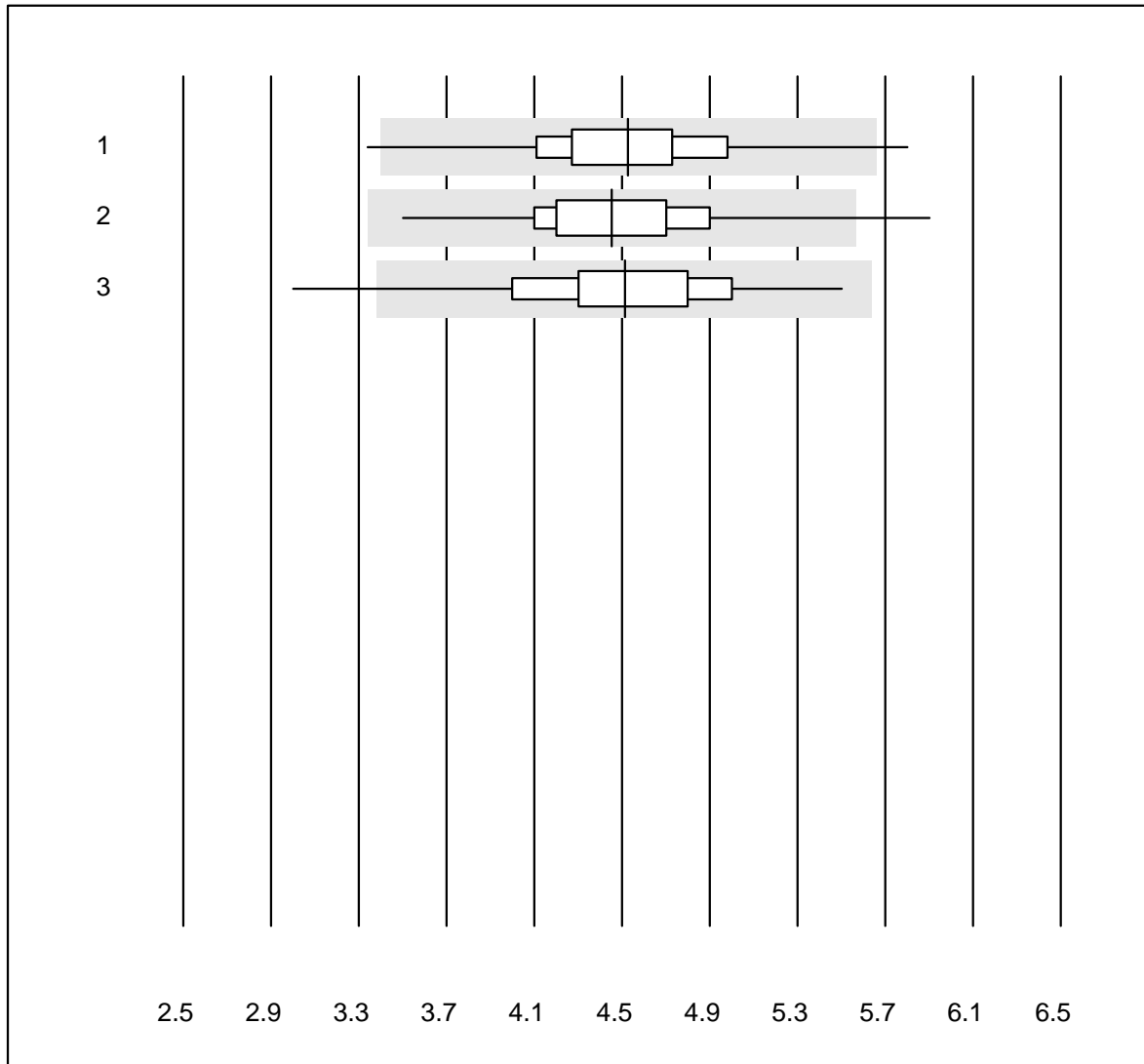


QUALAB tolerance : 9 %

Hematocrit H2 (l/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	153	93.5	0.0	6.5	0.29	3.5	e
2 Abx Micros	74	86.4	6.8	6.8	0.28	4.5	e
3 Microsemi	857	93.1	1.5	5.4	0.28	3.1	e

Leucocytes H2

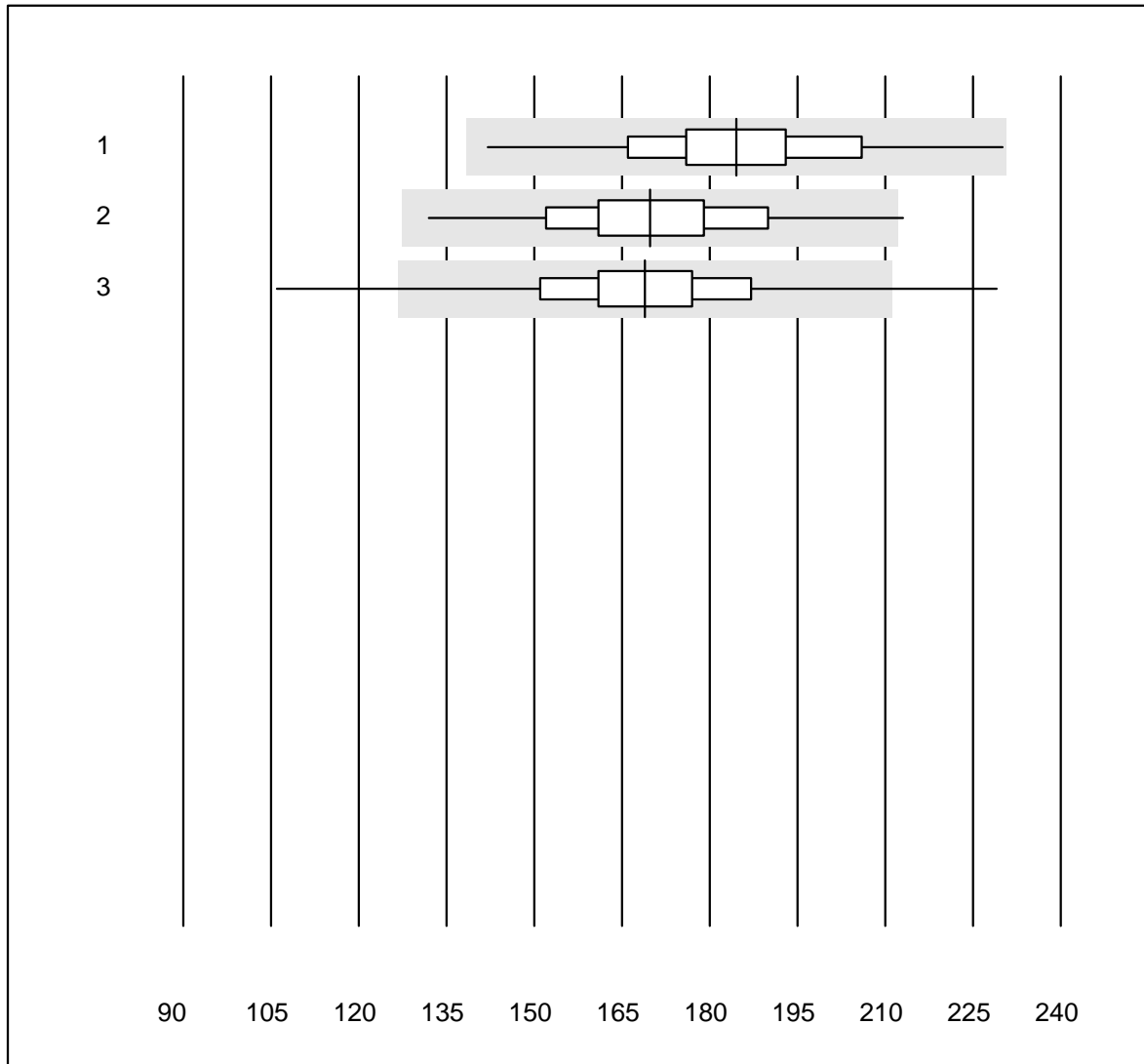


QUALAB tolerance : 25 %

Leucocytes H2 (G/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	153	98.0	1.3	0.7	4.53	8.1	e
2 Abx Micros	74	95.9	1.4	2.7	4.45	8.7	e
3 Microsemi	857	98.5	0.9	0.6	4.51	8.4	e

Thrombocytes H2

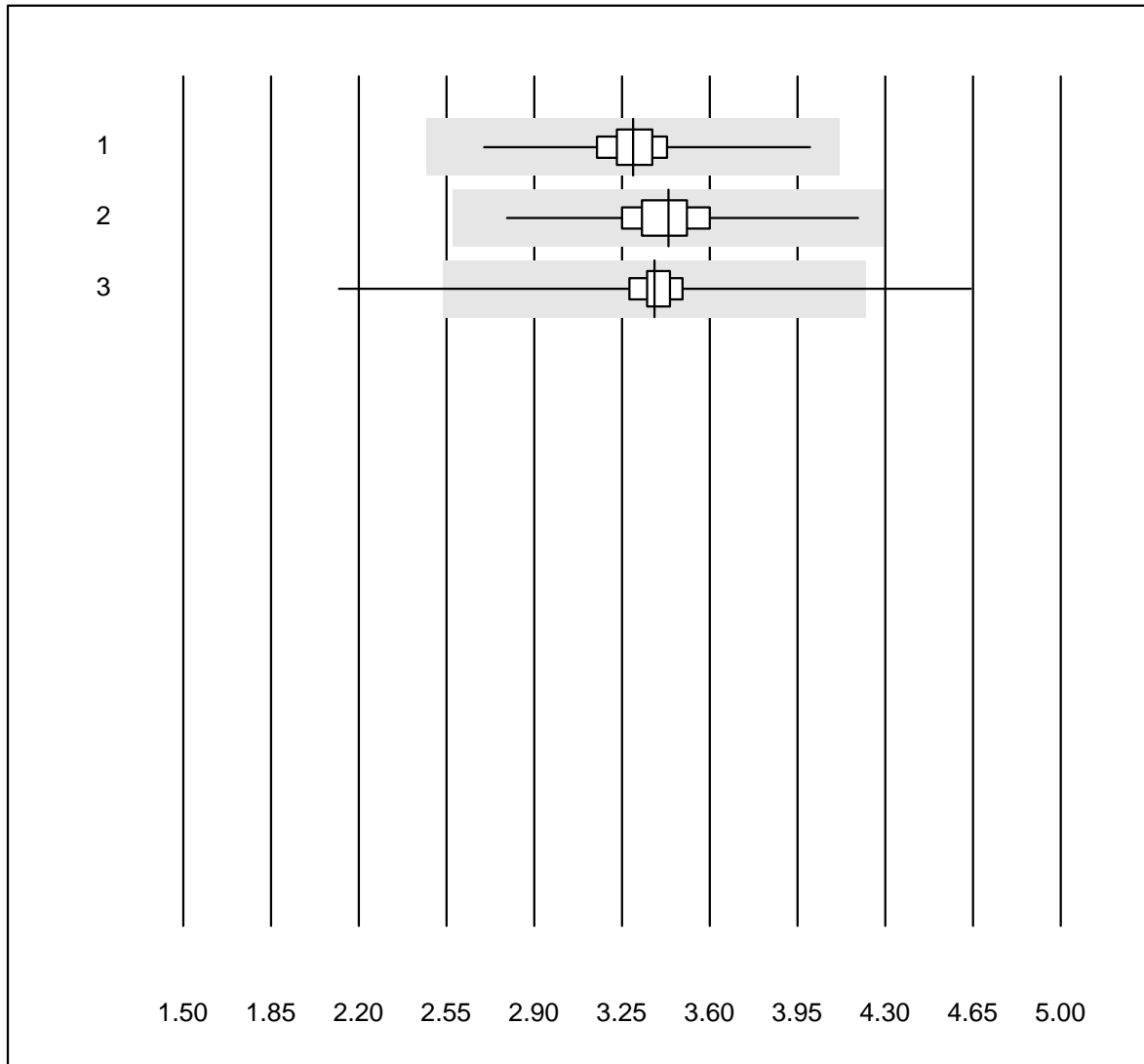


QUALAB tolerance : 25 %

Thrombocytes H2 (G/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	153	97.4	0.0	2.6	184.5	8.5	e
2 Abx Micros	74	90.5	1.4	8.1	169.8	8.8	e
3 Microsemi	857	94.7	2.0	3.3	168.9	8.9	e

Erythrocytes H2

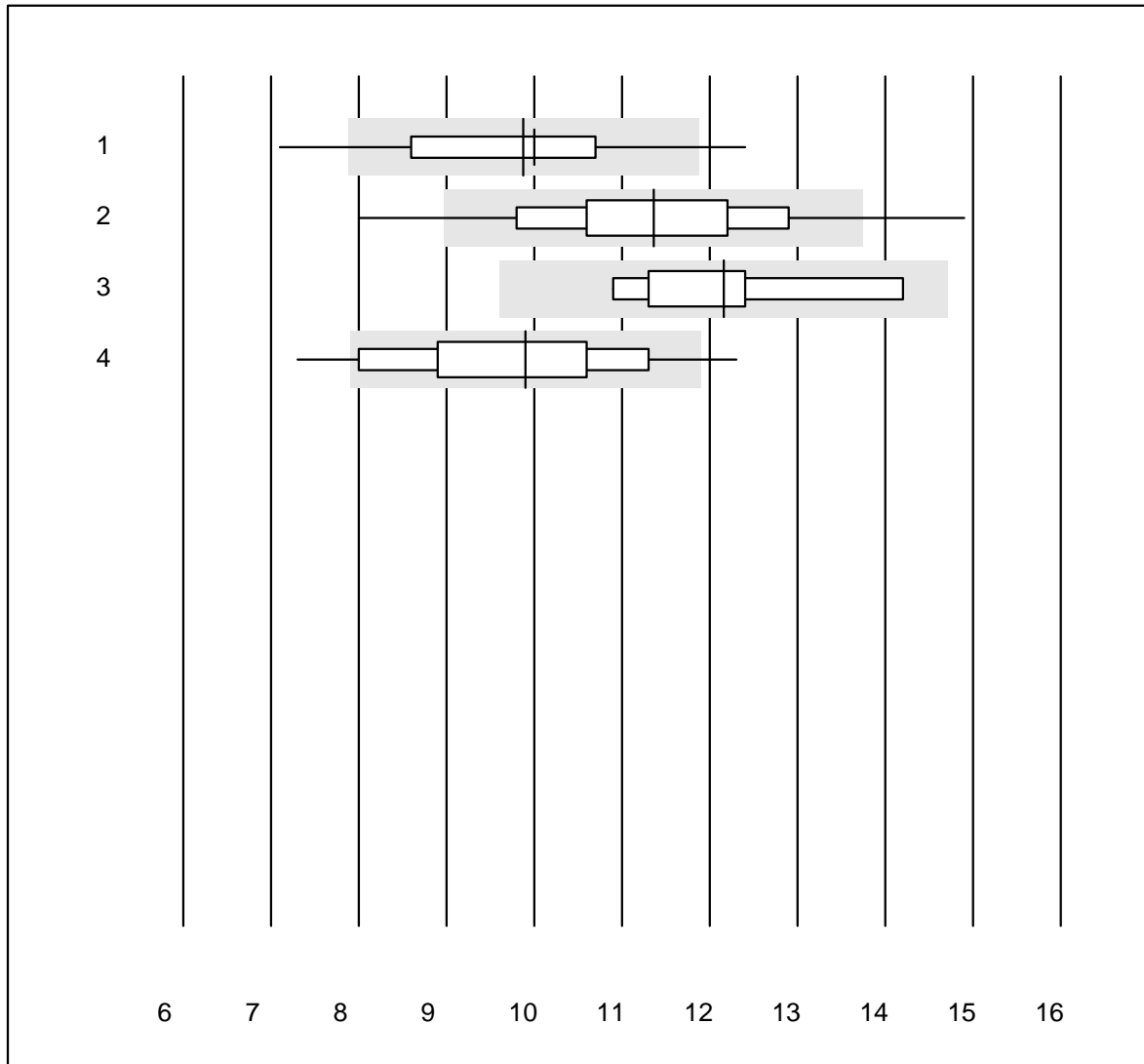


QUALAB tolerance : 25 %

Erythrocytes H2 (T/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	153	95.4	0.0	4.6	3.30	4.1	e
2 Abx Micros	74	97.3	0.0	2.7	3.44	5.5	e
3 Microsemi	857	96.5	1.3	2.2	3.38	5.3	e

CRP H2

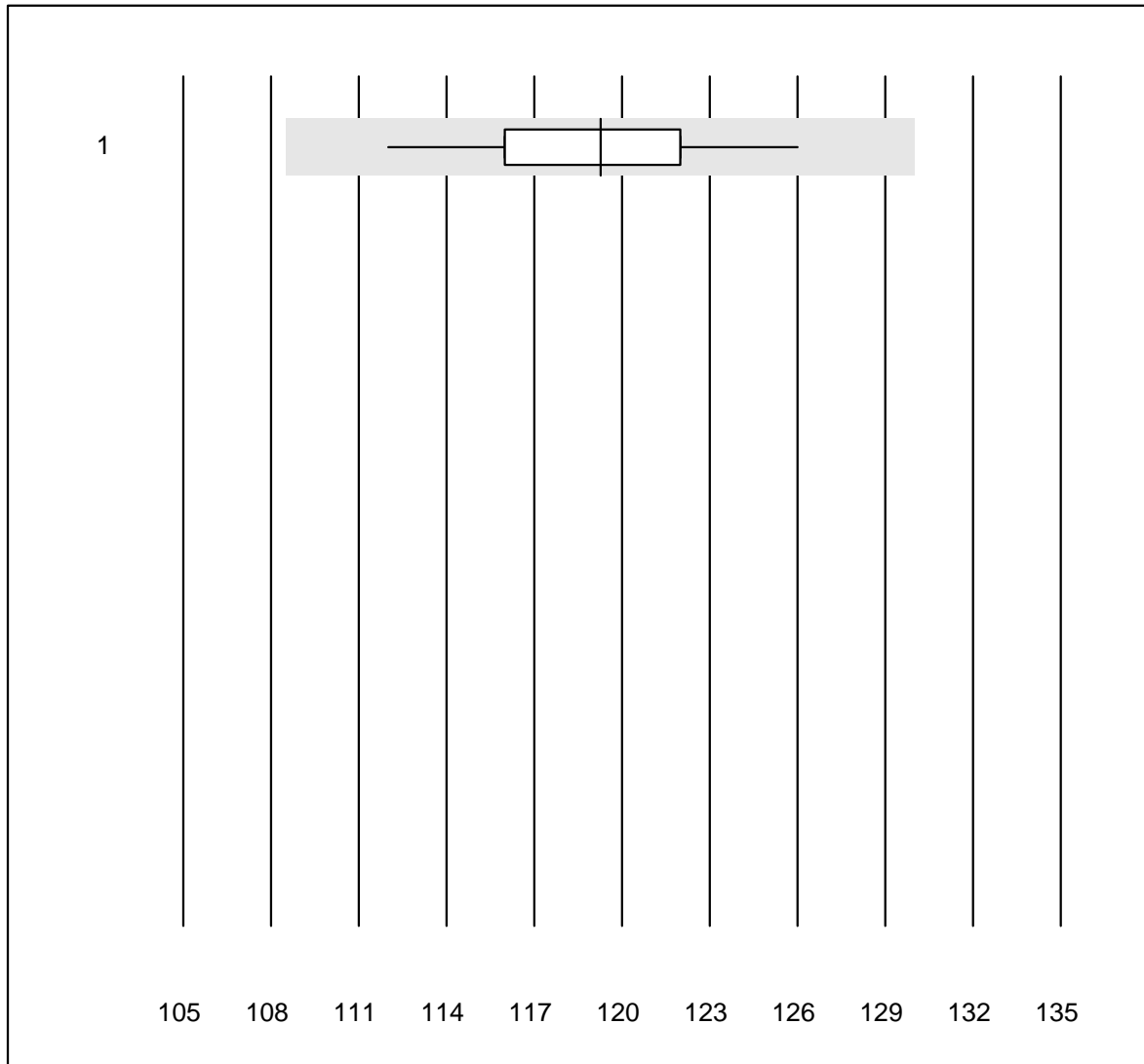


QUALAB tolerance : 21 %
(< 10.0: +/- 2.0 mg/l)

CRP H2 (mg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Z3	141	87.2	6.4	6.4	9.9	9.0	e
2 Microsemi	841	89.4	5.8	4.8	11.4	10.6	e
3 Abx Micros	10	80.0	0.0	20.0	12.2	8.7	e*
4 ABX Micros CRP200	64	82.8	12.5	4.7	9.9	12.2	e

Hemoglobin BG

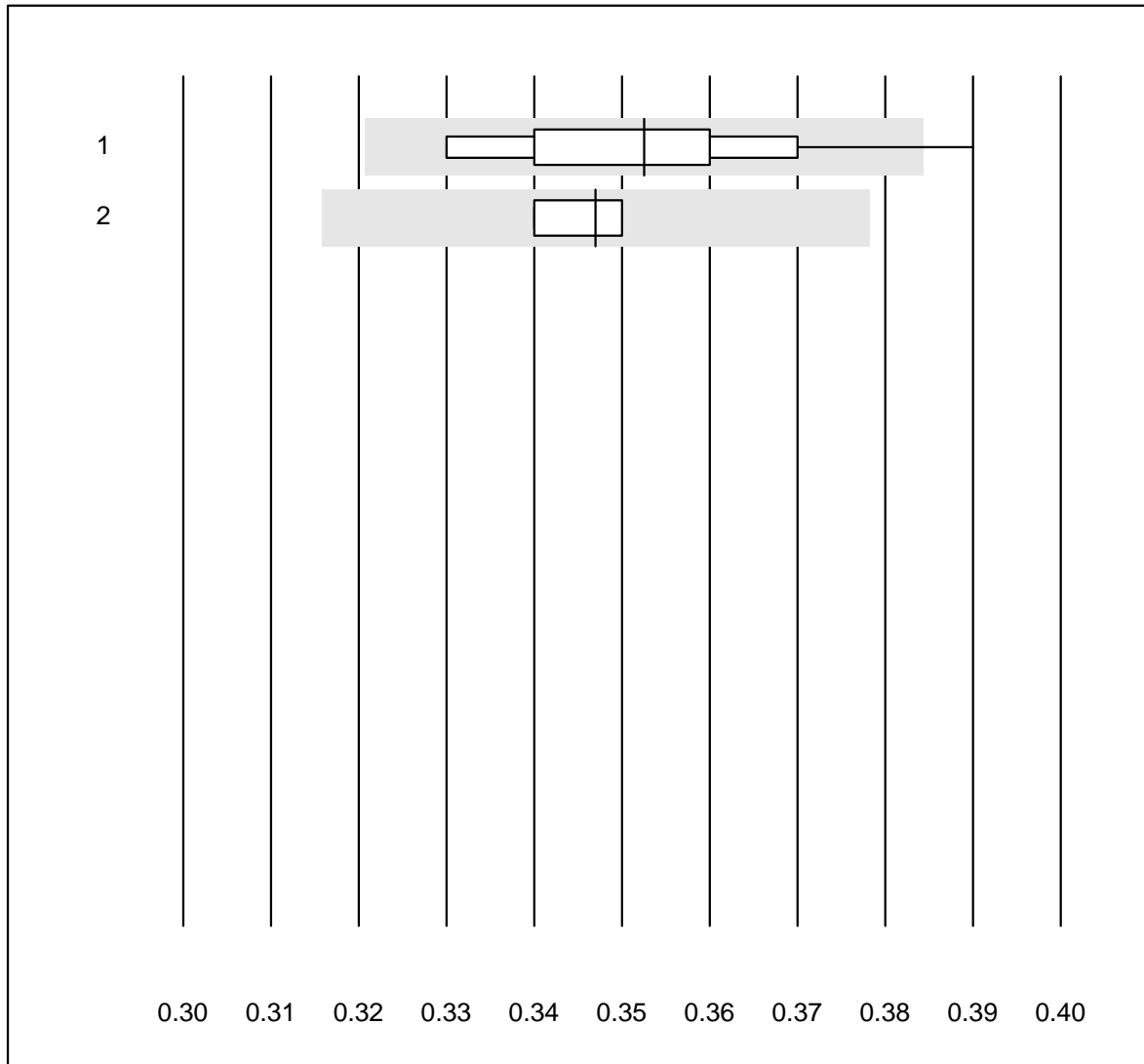


QUALAB tolerance : 9 %

Hemoglobin BG (g/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 iStat	11	100.0	0.0	0.0	119.3	3.2	e

Hematocrit

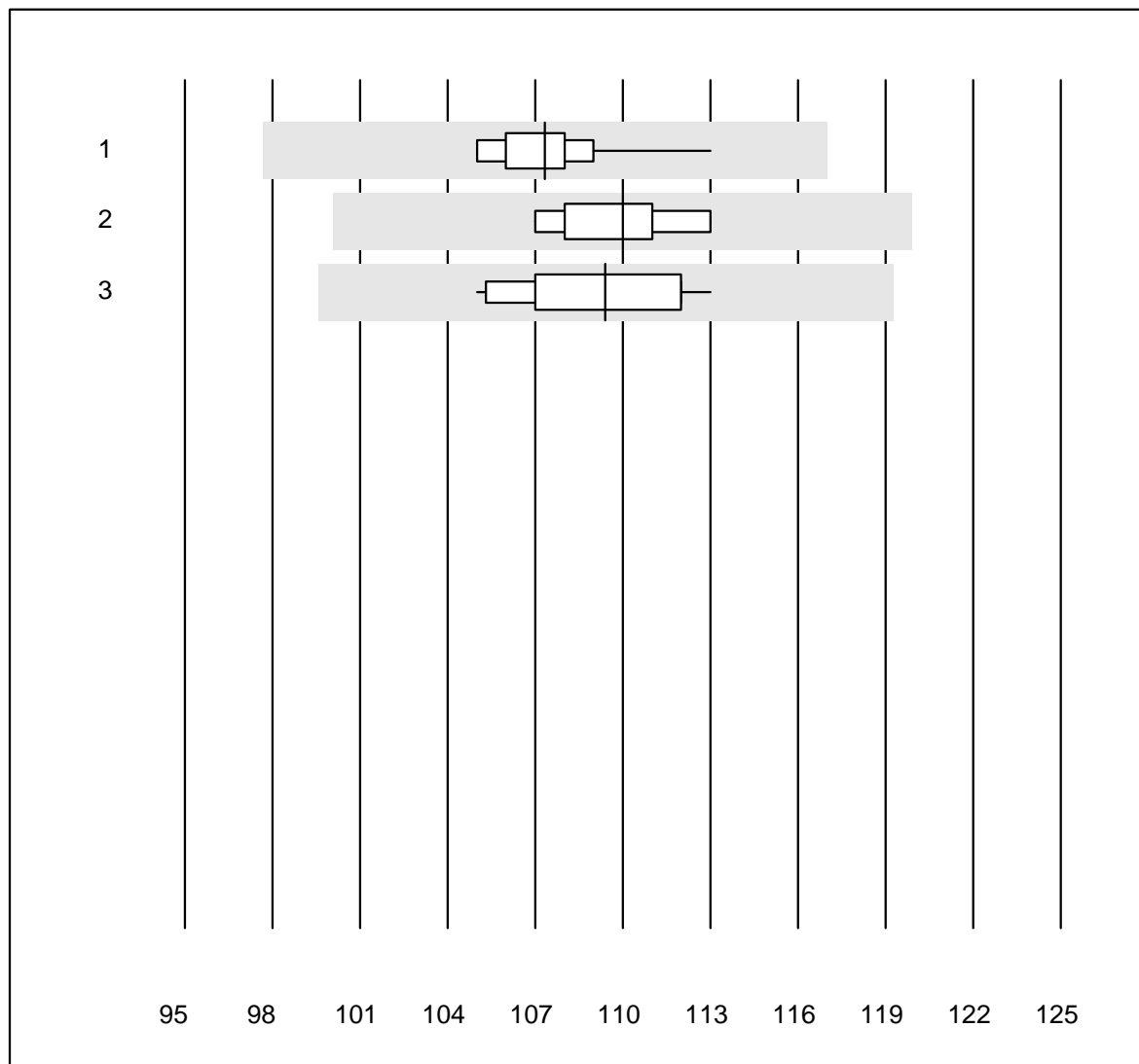


QUALAB tolerance : 9 %

Hematocrit (l/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 iStat	16	93.7	6.3	0.0	0.35	4.2	e
2 EPOC	11	90.9	0.0	9.1	0.35	1.4	e

Hemoglobin



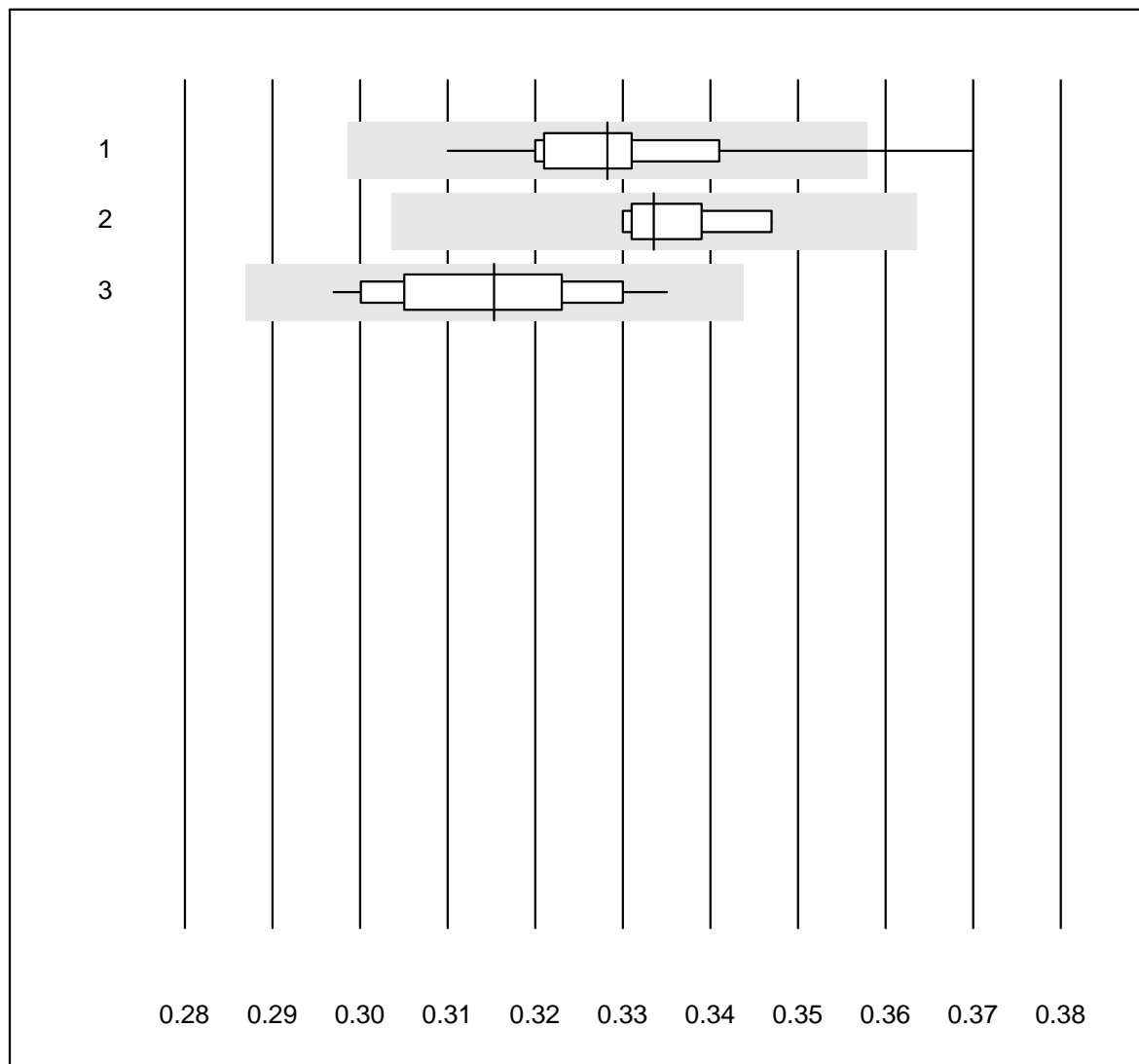
QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	91	98.9	0.0	1.1	107.3	1.5	e
2	Advia	6	100.0	0.0	0.0	110.0	2.0	e
3	Yumizen/Pentra	15	100.0	0.0	0.0	109.4	2.4	e

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

Hematocrit



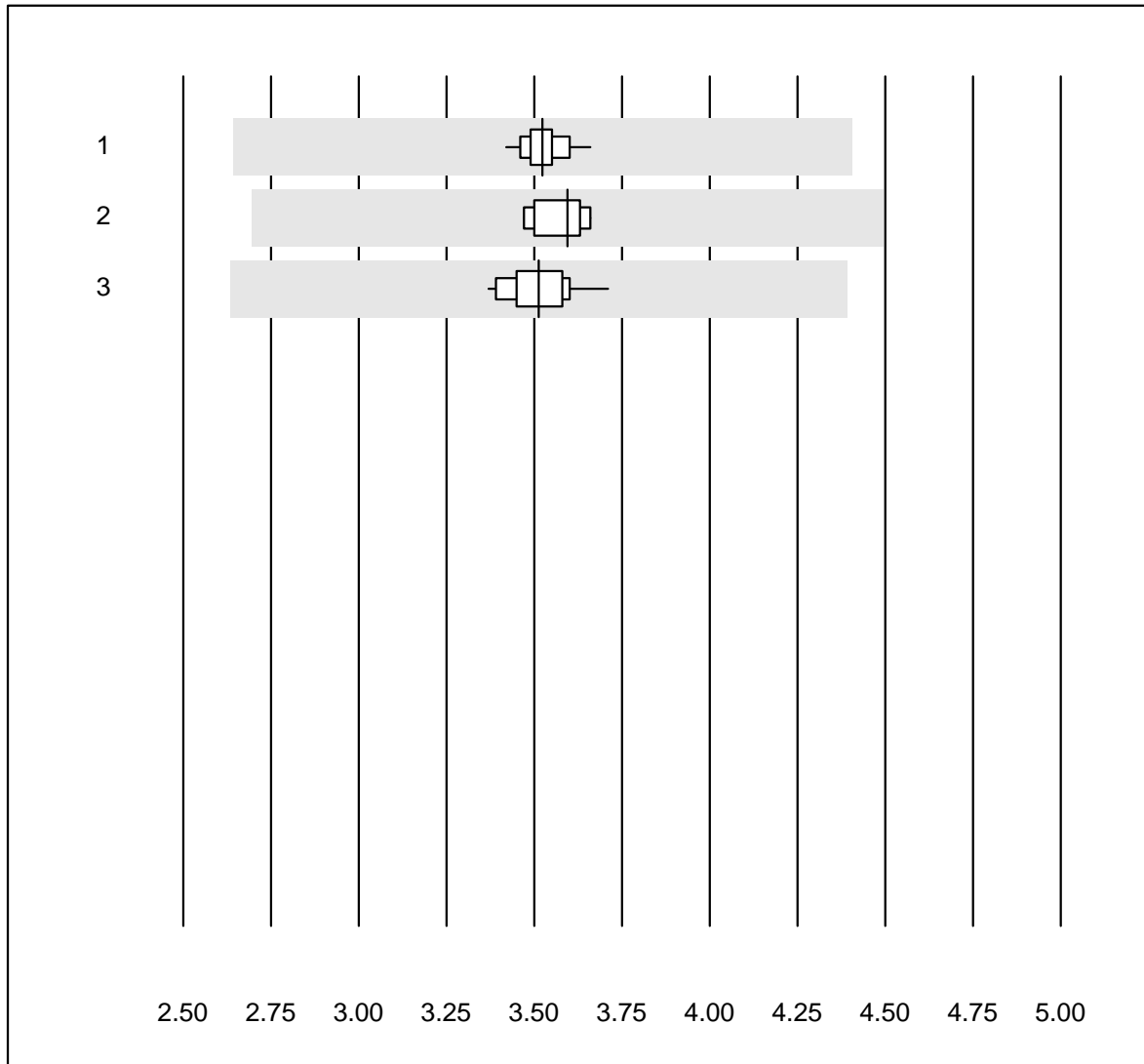
QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	93	97.8	1.1	1.1	0.33	2.9	e
2	Advia	6	100.0	0.0	0.0	0.33	1.9	e
3	Yumizen/Pentra	15	100.0	0.0	0.0	0.32	3.6	e

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

Erythrocytes



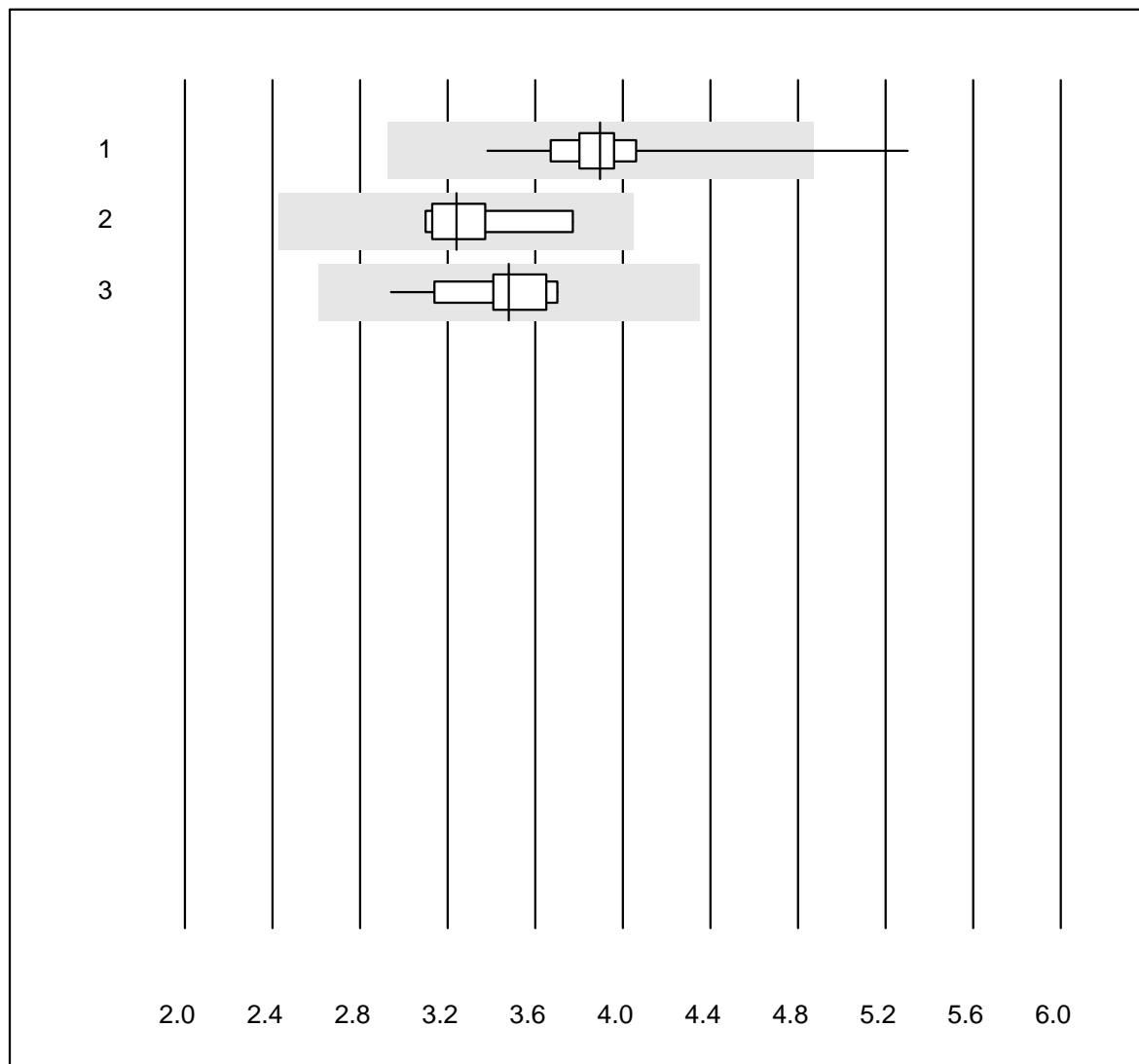
QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	93	98.9	0.0	1.1	3.52	1.5	e
2	Advia	6	100.0	0.0	0.0	3.60	2.1	e
3	Yumizen/Pentra	15	100.0	0.0	0.0	3.51	2.6	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Leucocytes



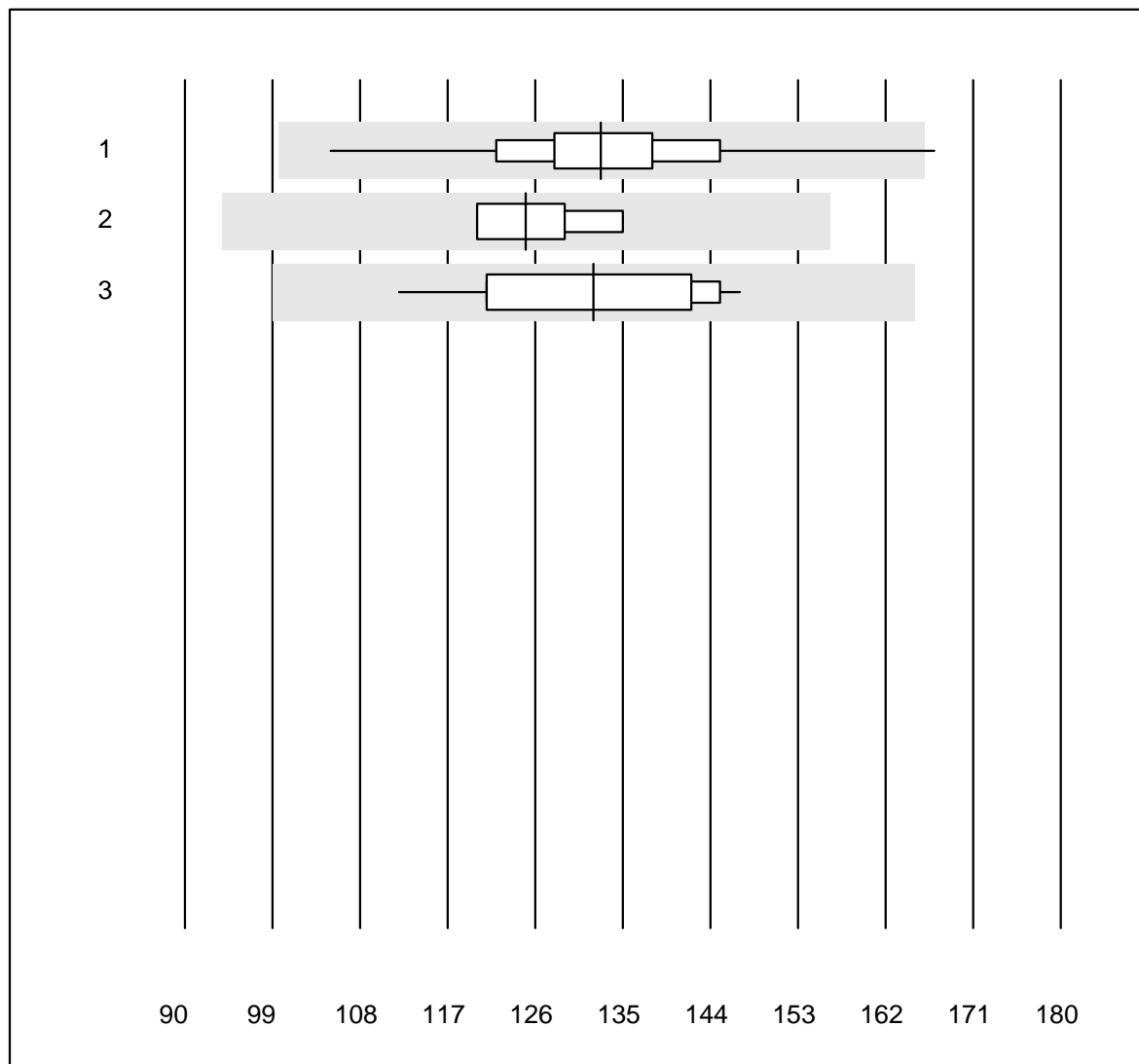
QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	92	98.9	1.1	0.0	3.90	6.1	e
2	Advia	6	100.0	0.0	0.0	3.24	7.5	e*
3	Yumizen/Pentra	15	93.3	0.0	6.7	3.48	6.6	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Thrombocytes



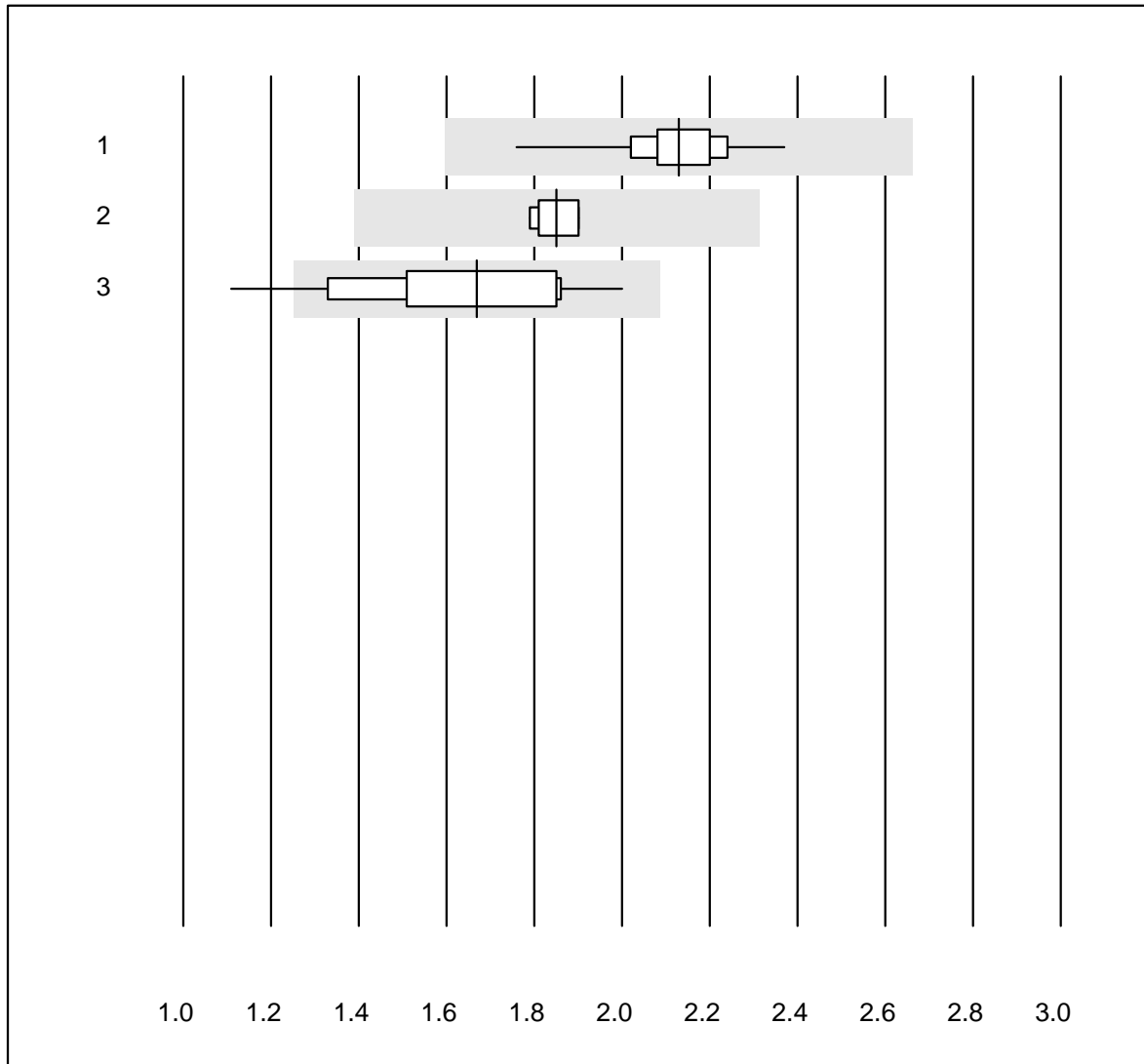
QUALAB tolerance : 25 %

Thrombocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	91	96.7	1.1	2.2	132.8	7.4	e
2	Advia	6	100.0	0.0	0.0	125.0	4.7	e
3	Yumizen/Pentra	15	100.0	0.0	0.0	132.0	8.2	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Neutrophils



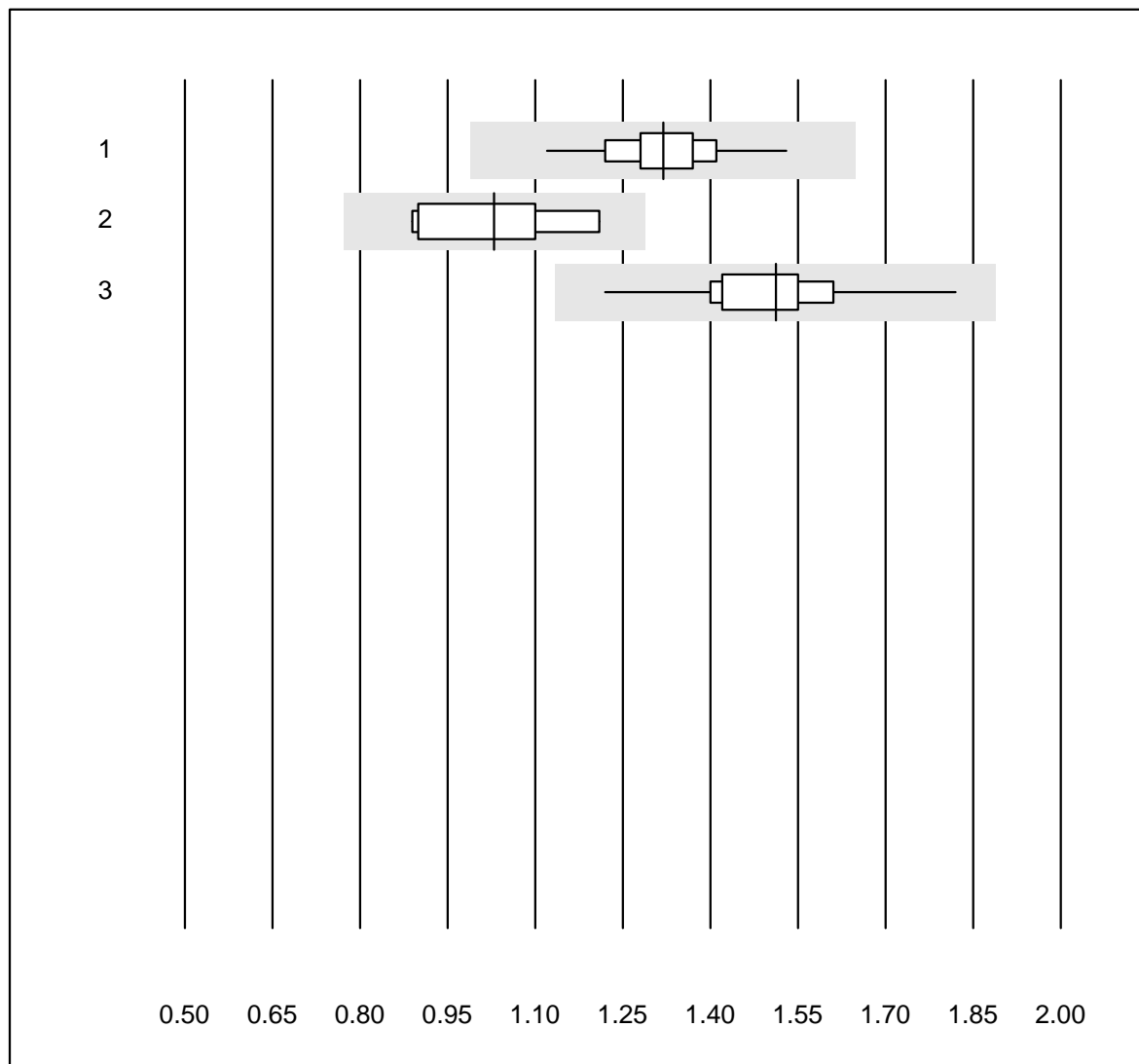
MQ tolerance : 25 %

Neutrophils (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	92	100.0	0.0	0.0	2.13	5.1	e
2	Advia	6	100.0	0.0	0.0	1.85	2.6	e
3	Yumizen/Pentra	14	85.8	7.1	7.1	1.67	15.8	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Lymphocytes



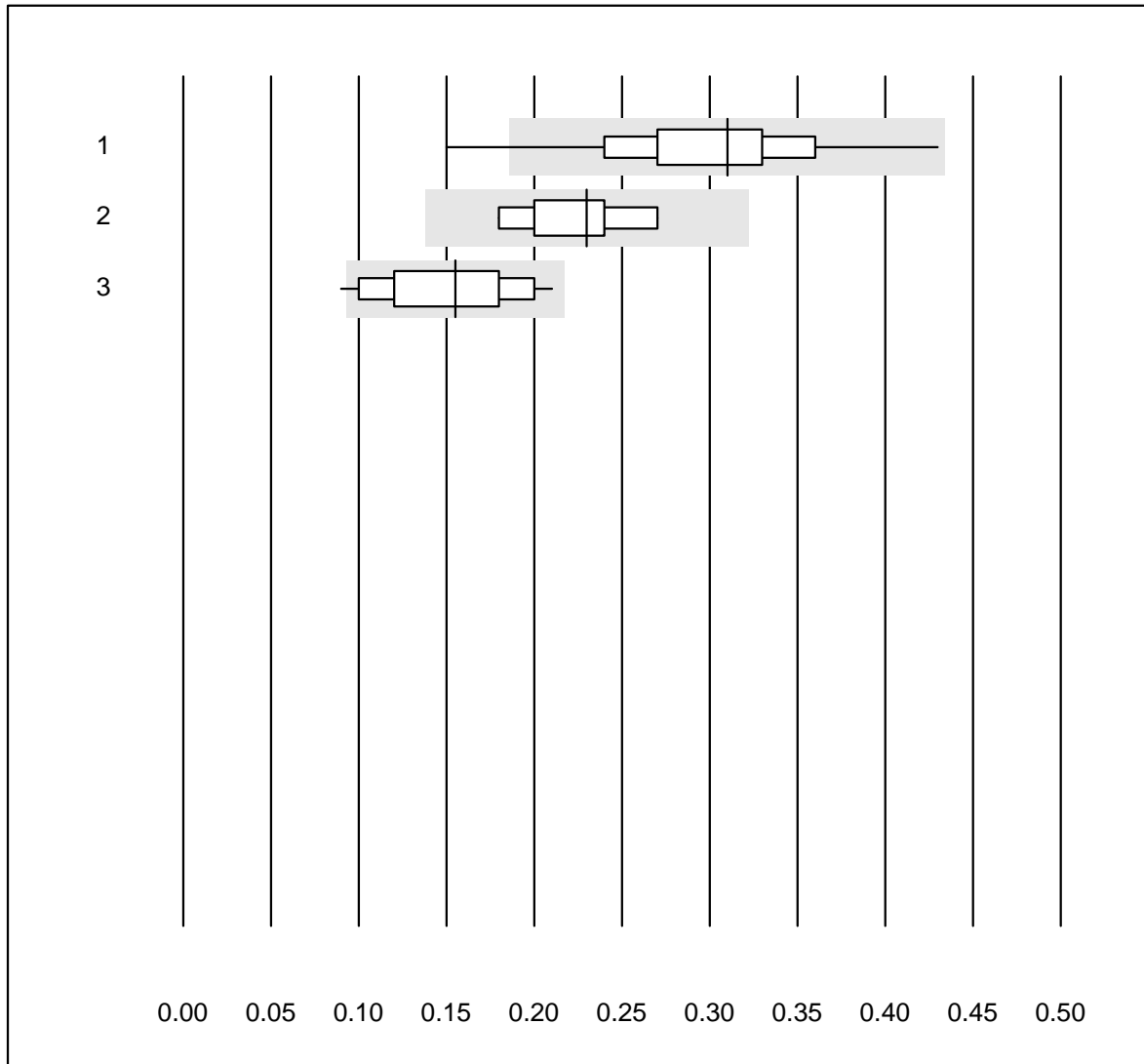
MQ tolerance : 25 %

Lymphocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	92	100.0	0.0	0.0	1.32	6.1	e
2	Advia	6	100.0	0.0	0.0	1.03	12.1	e*
3	Yumizen/Pentra	14	85.7	0.0	14.3	1.51	9.3	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Monocytes



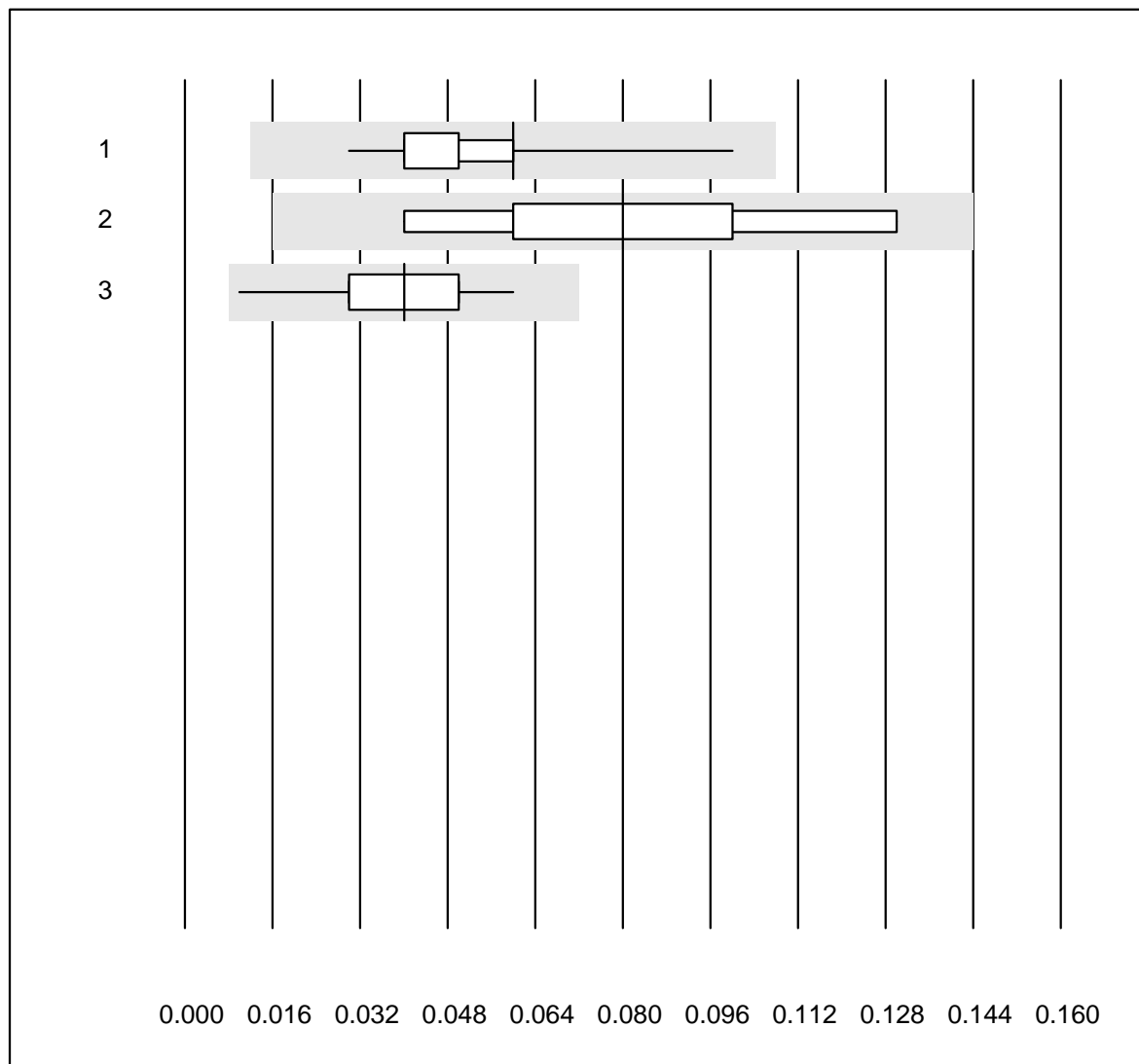
MQ tolerance : 40 %

Monocytes (G/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	92	98.9	1.1	0.0	0.31	17.2	e
2	Advia	5	100.0	0.0	0.0	0.23	15.7	e*
3	Yumizen/Pentra	14	78.6	7.1	14.3	0.16	25.4	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Eosinophils



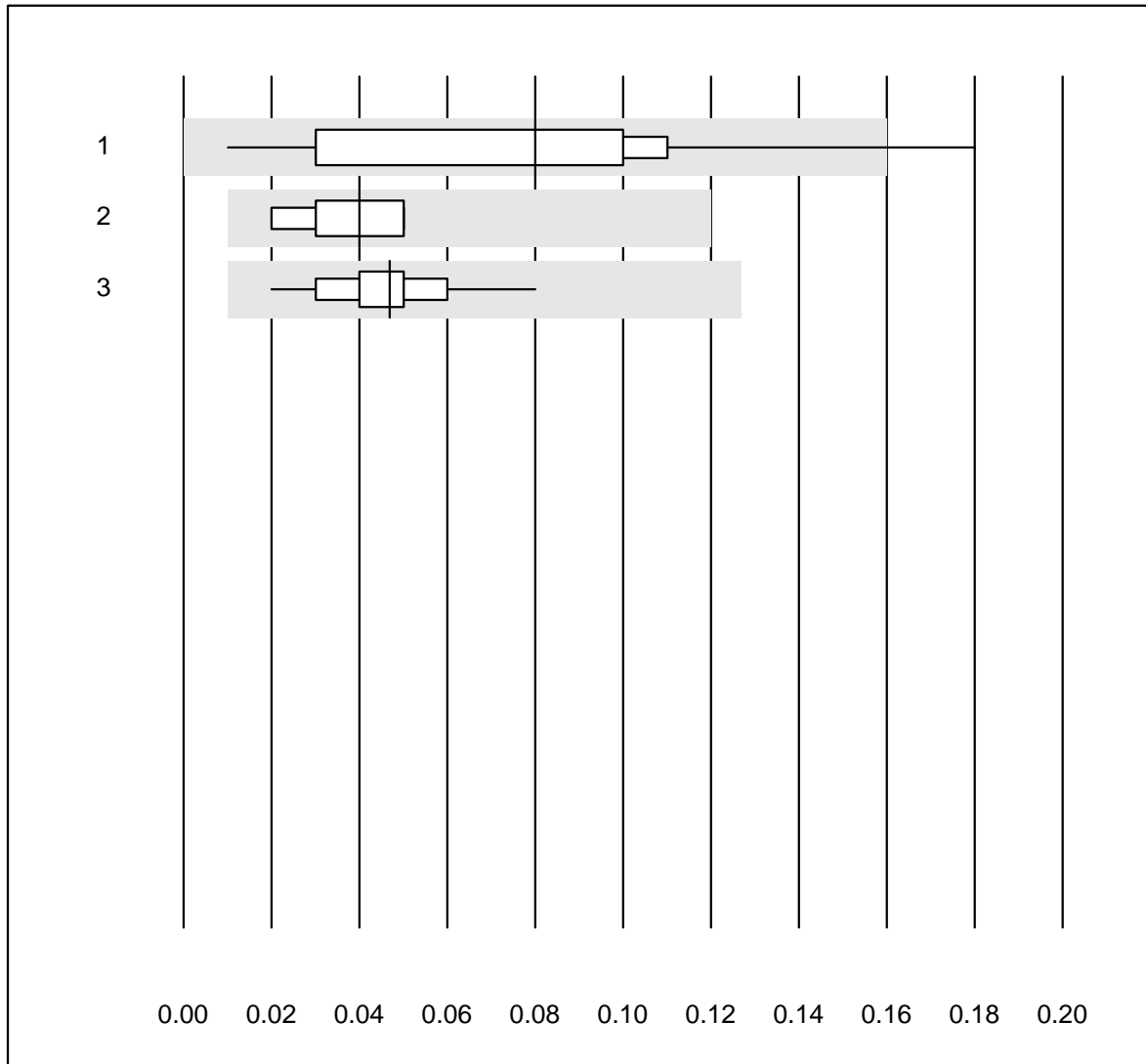
MQ tolerance : 80 %

Eosinophils (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	90	100.0	0.0	0.0	0.06	25.7	a
2	Advia	6	100.0	0.0	0.0	0.08	38.3	e*
3	Yumizen/Pentra	14	100.0	0.0	0.0	0.04	31.0	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Basophiles



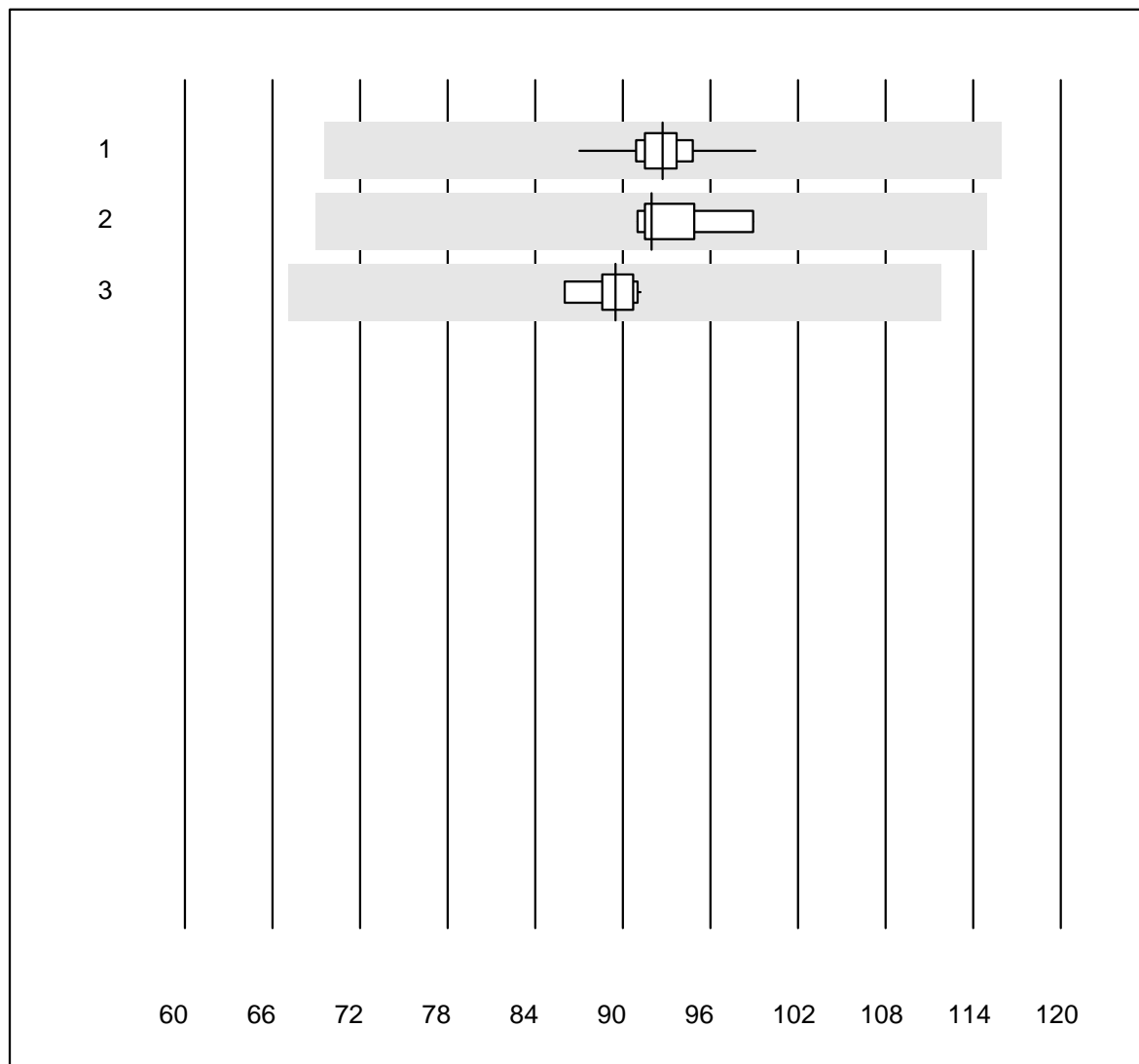
MQ tolerance : 80 %
(< 0.10: +/- 0.08 G/l)

Basophiles (G/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Sysmex	90	95.6	3.3	1.1	0.08	59.8	a
2 Advia	5	100.0	0.0	0.0	0.04	34.3	e*
3 Yumizen/Pentra	14	92.9	0.0	7.1	0.05	31.8	e

One result was submitted but not published because the method group was too small. (<4 results per group)

MCV



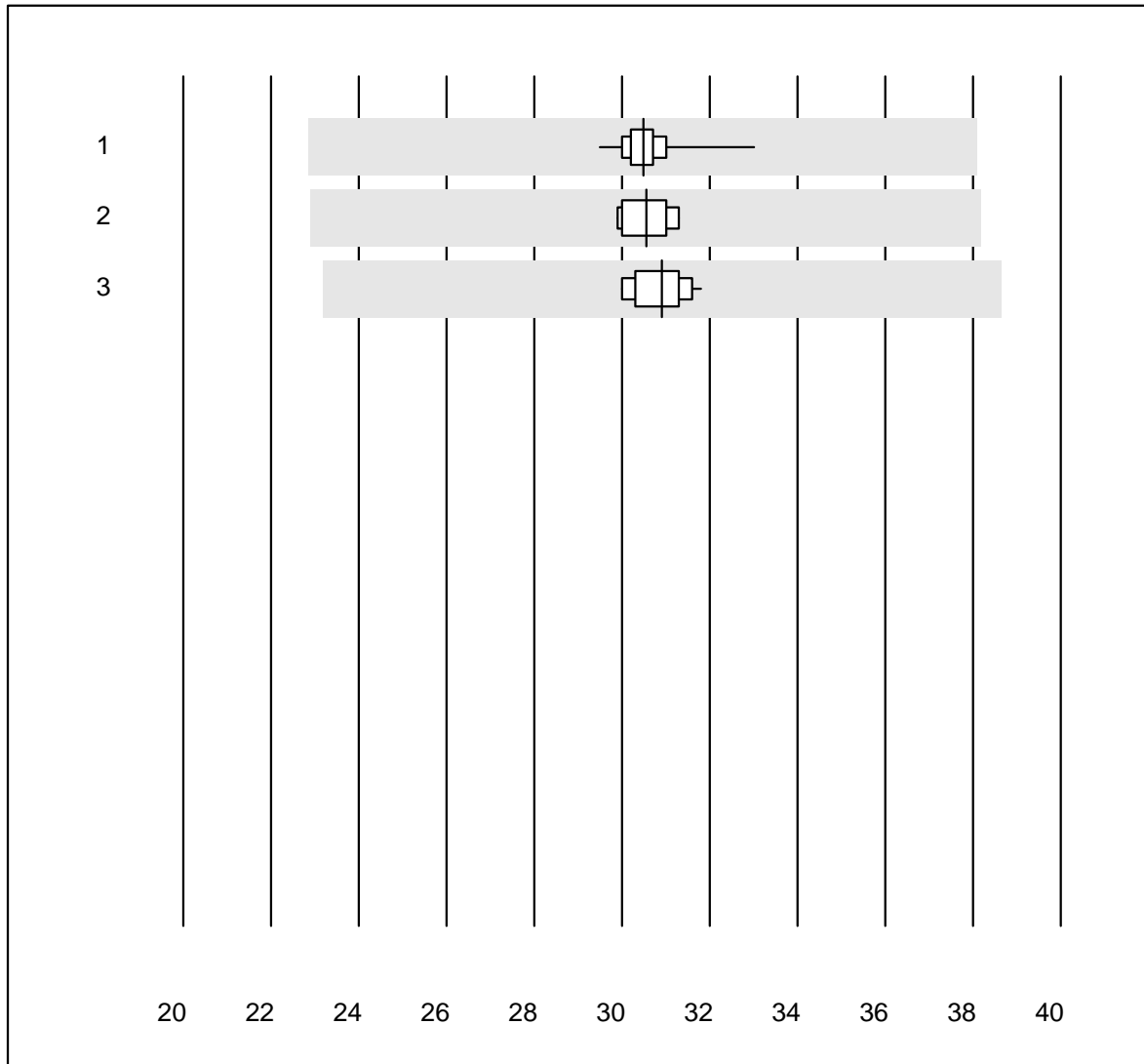
MQ tolerance : 25 %

MCV (fl)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	82	100.0	0.0	0.0	92.7	2.1	e
2	Advia	6	100.0	0.0	0.0	92.0	3.3	e
3	Yumizen/Pentra	10	100.0	0.0	0.0	89.5	1.8	e

One result was submitted but not published because the method group was too small. (<4 results per group)

MCH



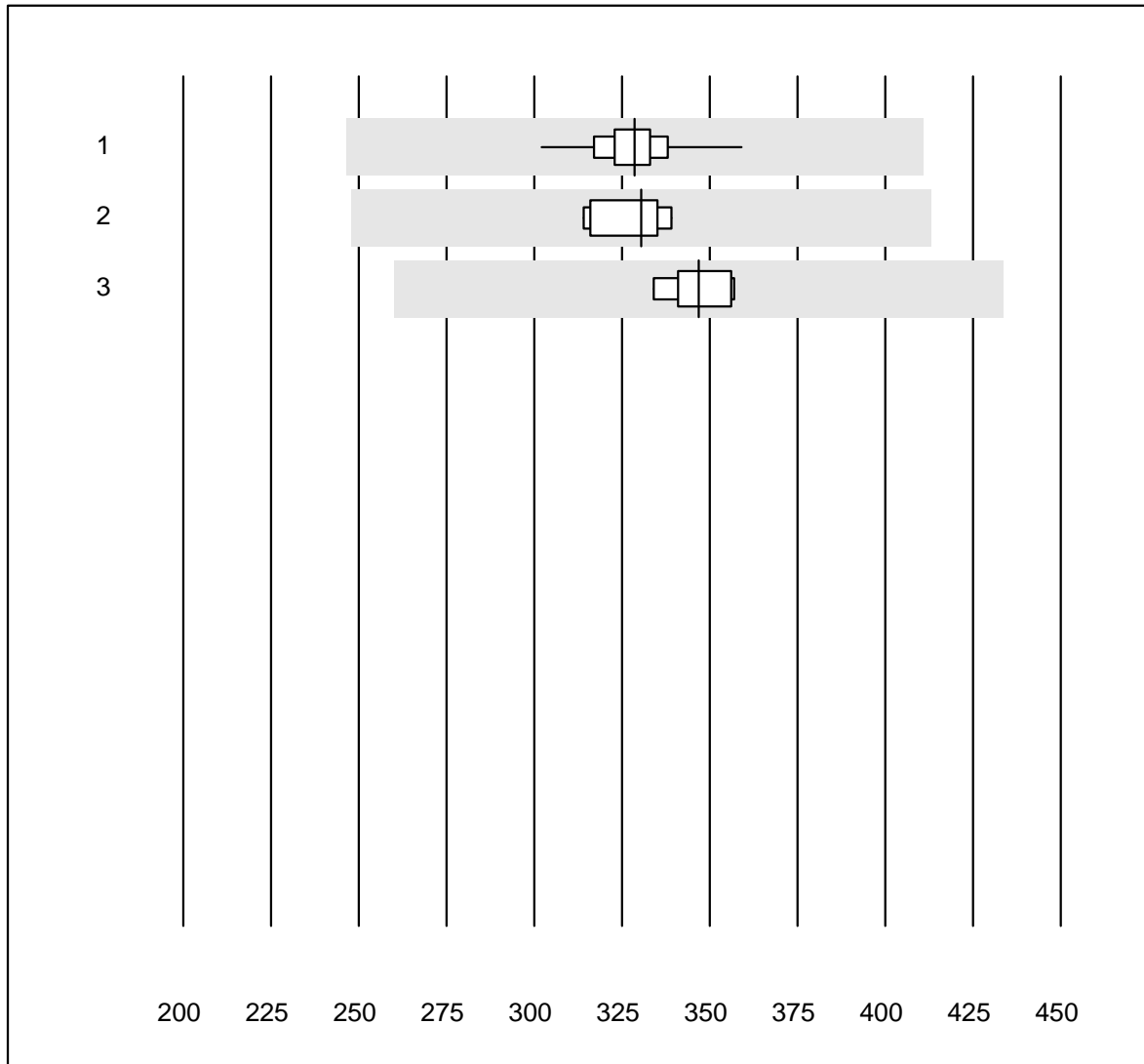
MQ tolerance : 25 %

MCH (pg)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	83	100.0	0.0	0.0	30.5	1.5	e
2	Advia	6	100.0	0.0	0.0	30.6	1.8	e
3	Yumizen/Pentra	10	100.0	0.0	0.0	30.9	2.0	e

One result was submitted but not published because the method group was too small. (<4 results per group)

MCHC



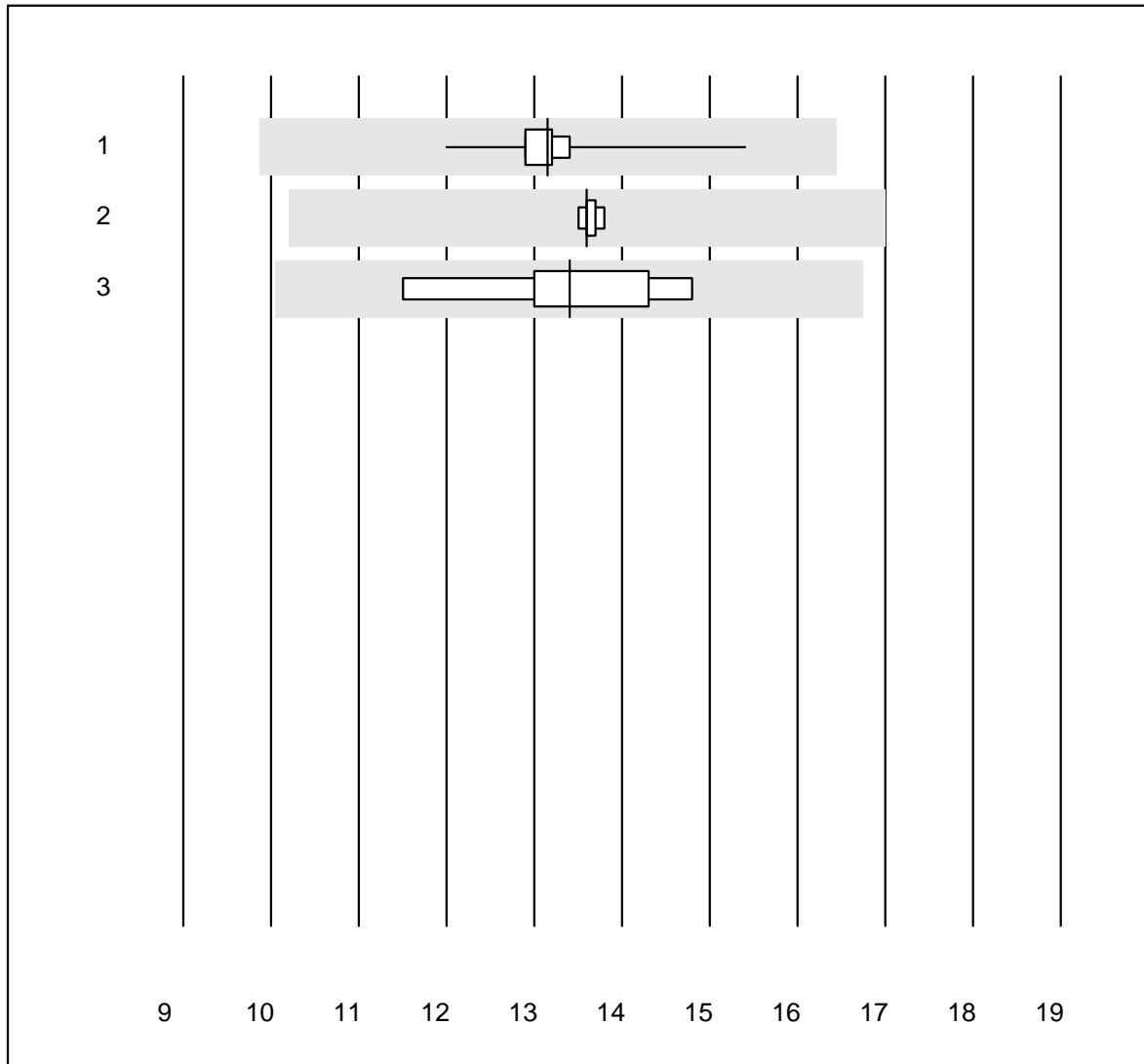
MQ tolerance : 25 %

MCHC (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	84	100.0	0.0	0.0	329	2.9	e
2	Advia	6	100.0	0.0	0.0	331	3.2	e
3	Yumizen/Pentra	10	100.0	0.0	0.0	347	2.4	e

One result was submitted but not published because the method group was too small. (<4 results per group)

RDW



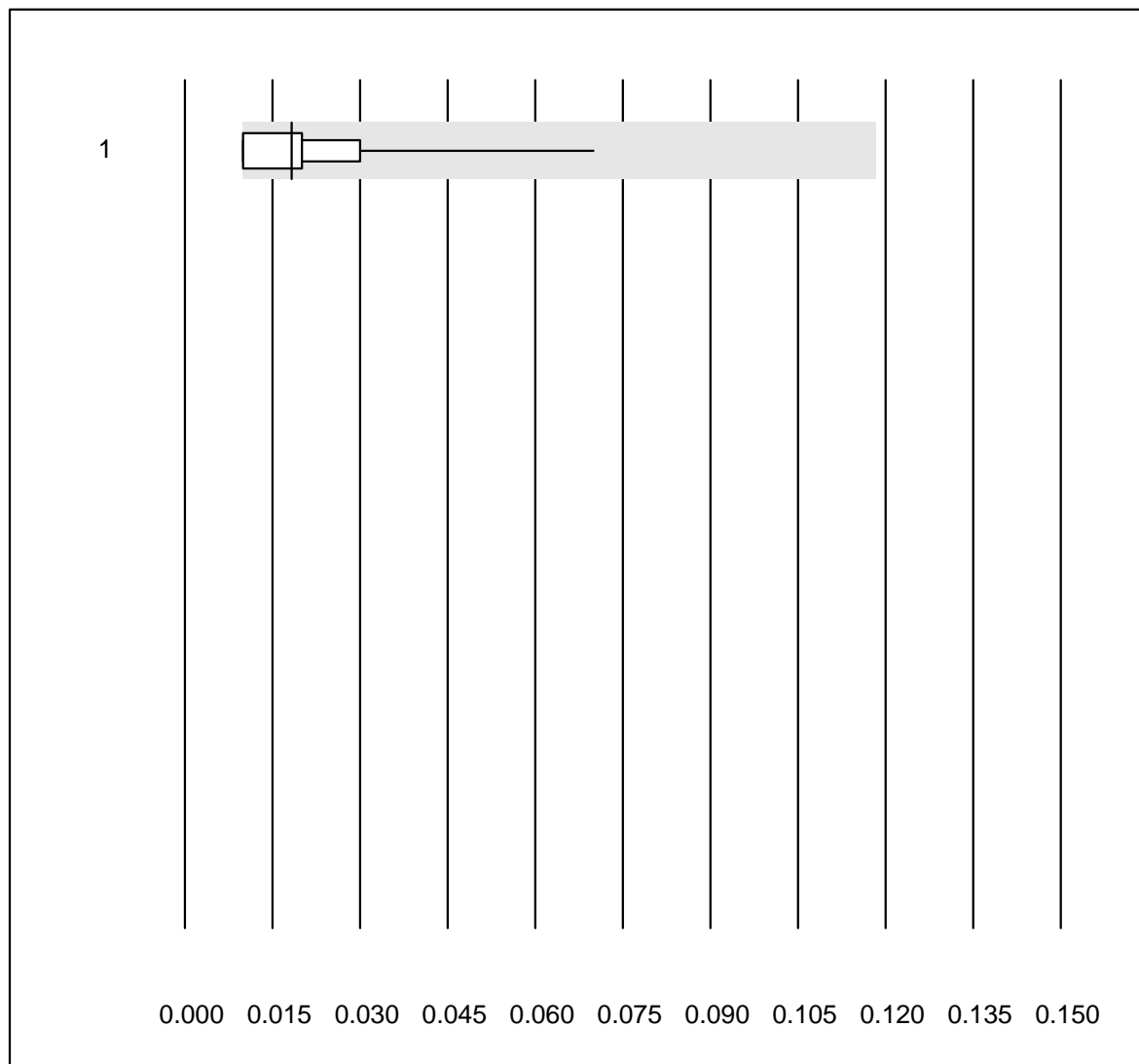
MQ tolerance : 25 %

RDW (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	80	100.0	0.0	0.0	13.2	3.5	e
2	Advia	5	100.0	0.0	0.0	13.6	0.8	e
3	Yumizen/Pentra	9	100.0	0.0	0.0	13.4	8.3	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Immature Granulocytes

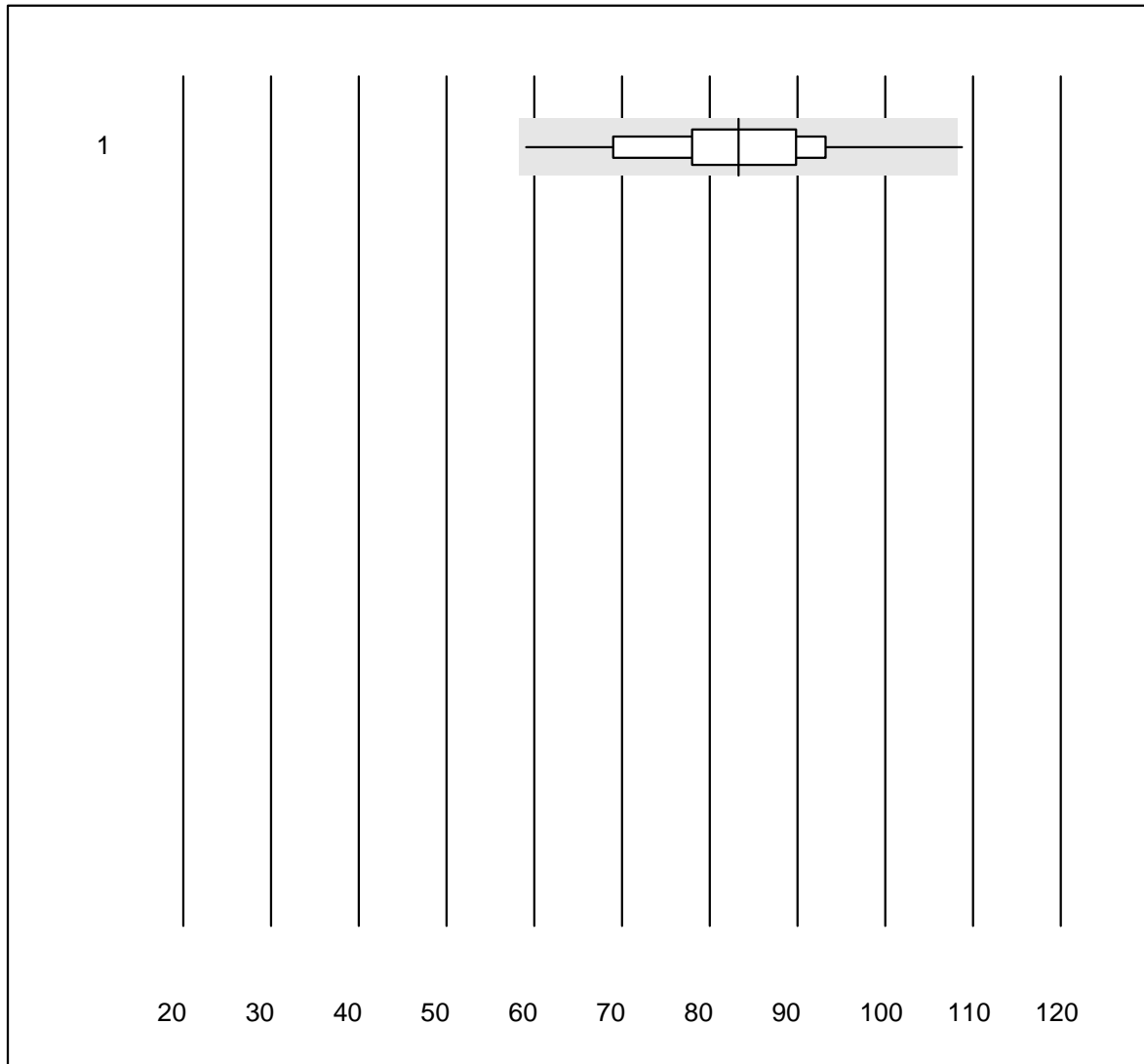


MQ tolerance : 25 %
 (< 0.10: +/- 0.10 G/l)

Immature Granulocytes (G/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Sysmex	71	100.0	0.0	0.0	0.02	56.9	e*

Reticulocytes



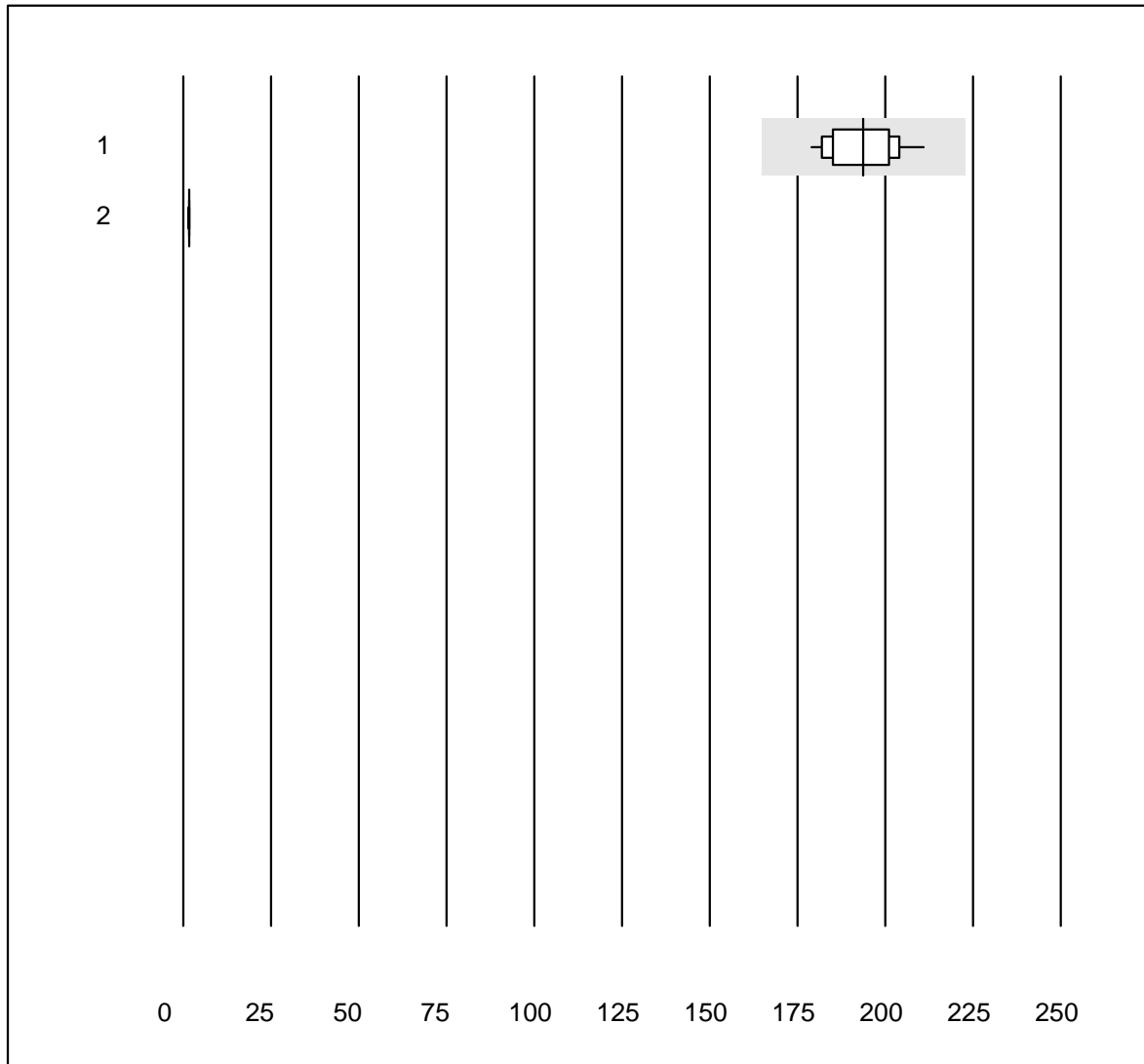
MQ tolerance : 30 %

Reticulocytes (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sysmex	48	95.8	2.1	2.1	83.2	11.7	e

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

Hämolyseindex Probe A



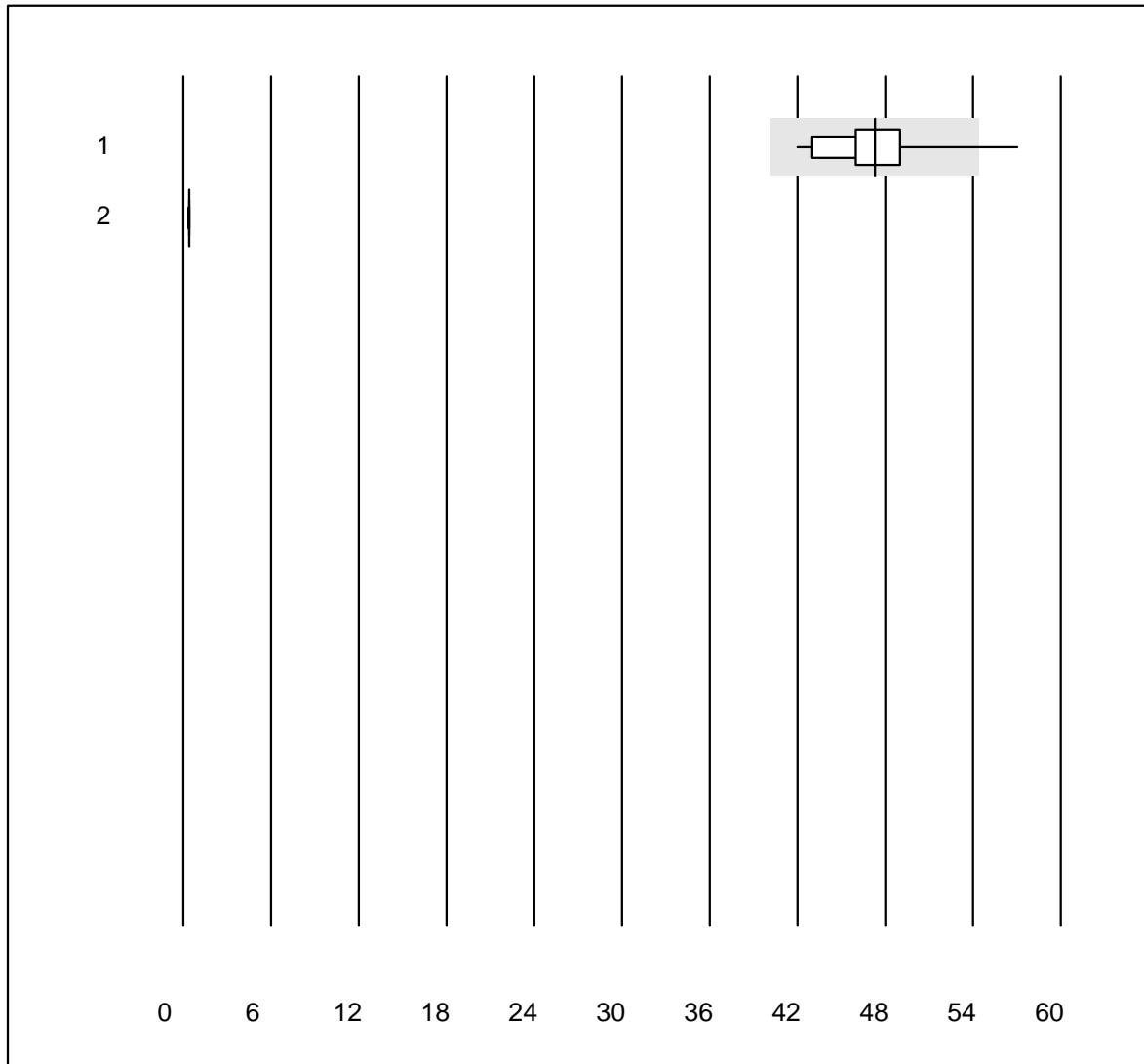
MQ tolerance : 15 %

Hämolyseindex Probe A ()

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	21	100.0	0.0	0.0	193.71	4.9	e
2	Architect	6	100.0	0.0	0.0	1.62	4.3	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Hämolyseindex Probe B



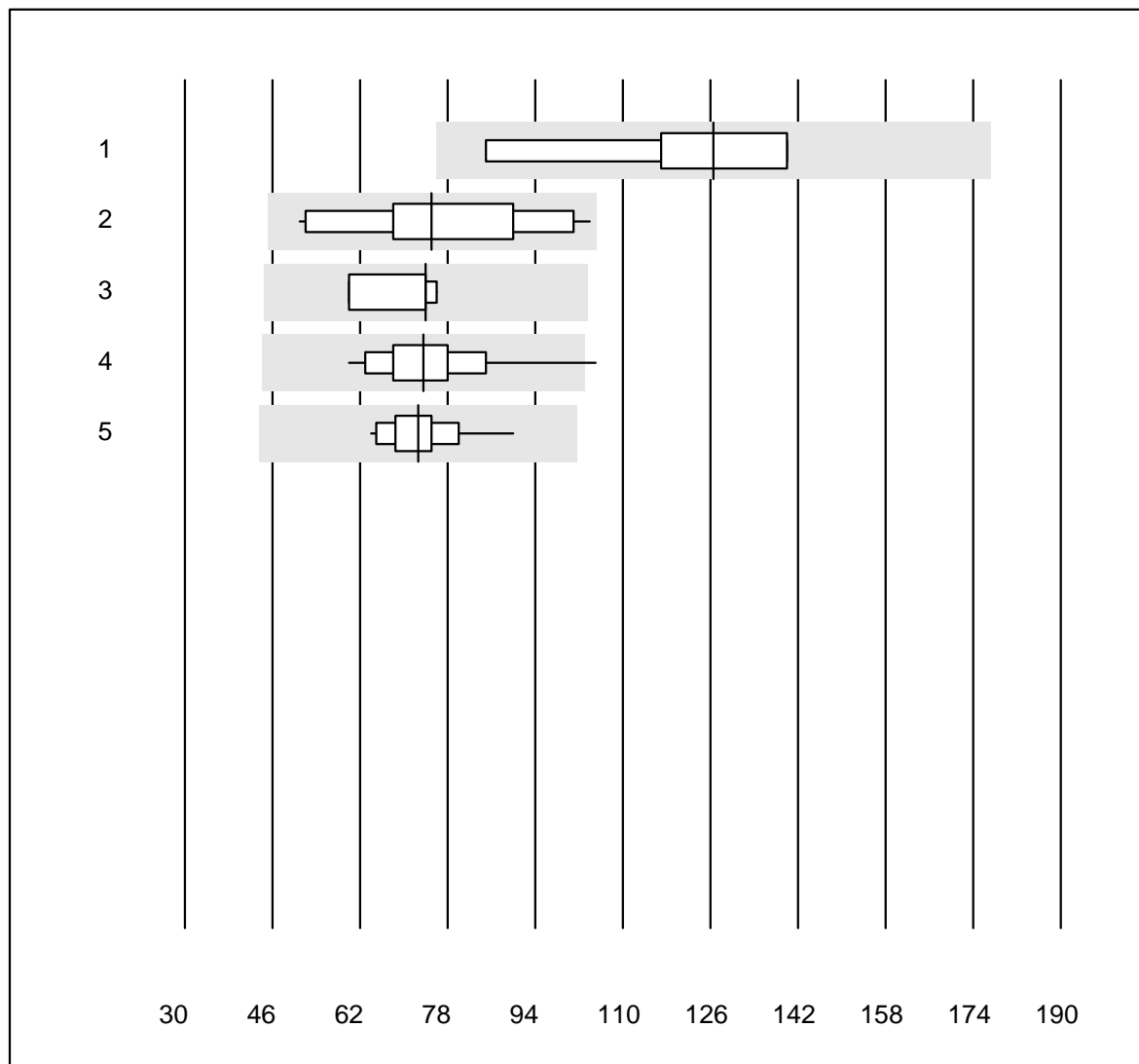
MQ tolerance : 15 %

Hämolyseindex Probe B ()

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	21	95.2	4.8	0.0	47.29	7.1	e
2	Architect	6	100.0	0.0	0.0	0.38	4.6	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Erythrocyte sedimentation rate 1h

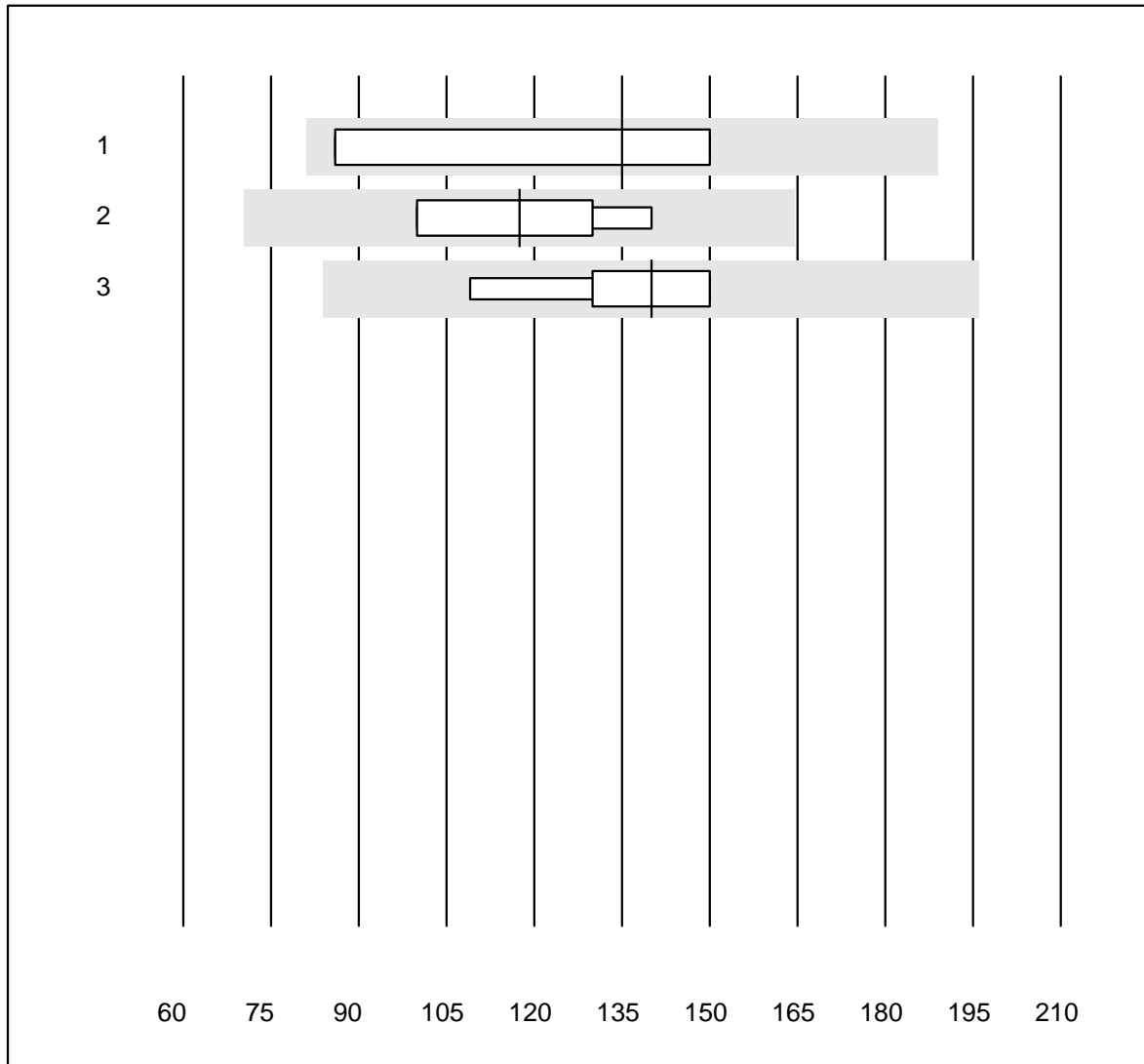


MQ tolerance : 40 %

Erythrocyte sedimentation rate 1h (mm/h)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	MINI-CUBE	15	93.3	0.0	6.7	127	17.1	e
2	Sarstedt Sedivette	16	93.7	0.0	6.3	75	21.8	e*
3	Sarstedt Microvette	4	100.0	0.0	0.0	74	10.4	e*
4	BD Seditainer	43	95.4	2.3	2.3	74	12.5	e
5	Other methods	17	76.5	0.0	23.5	73	9.6	e

Erythrocyte sedimentation rate 2h

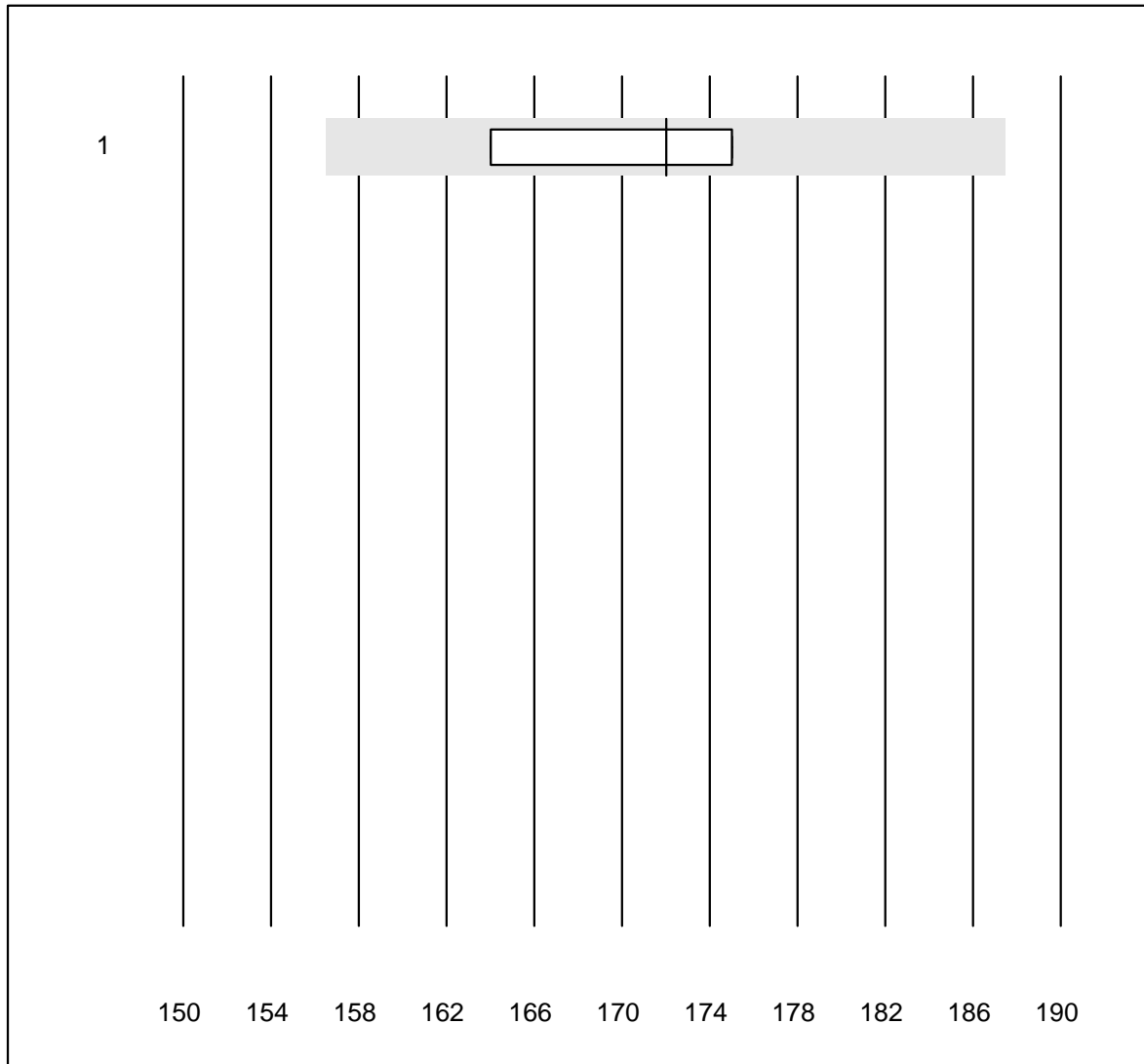


MQ tolerance : 40 %

Erythrocyte sedimentation rate 2h (mm/2h)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Sarstedt Sedivette	4	100.0	0.0	0.0	135	24.1	e*
2	BD Seditainer	4	100.0	0.0	0.0	118	16.3	e*
3	Other methods	6	100.0	0.0	0.0	140	11.3	e

Hemoglobin HS

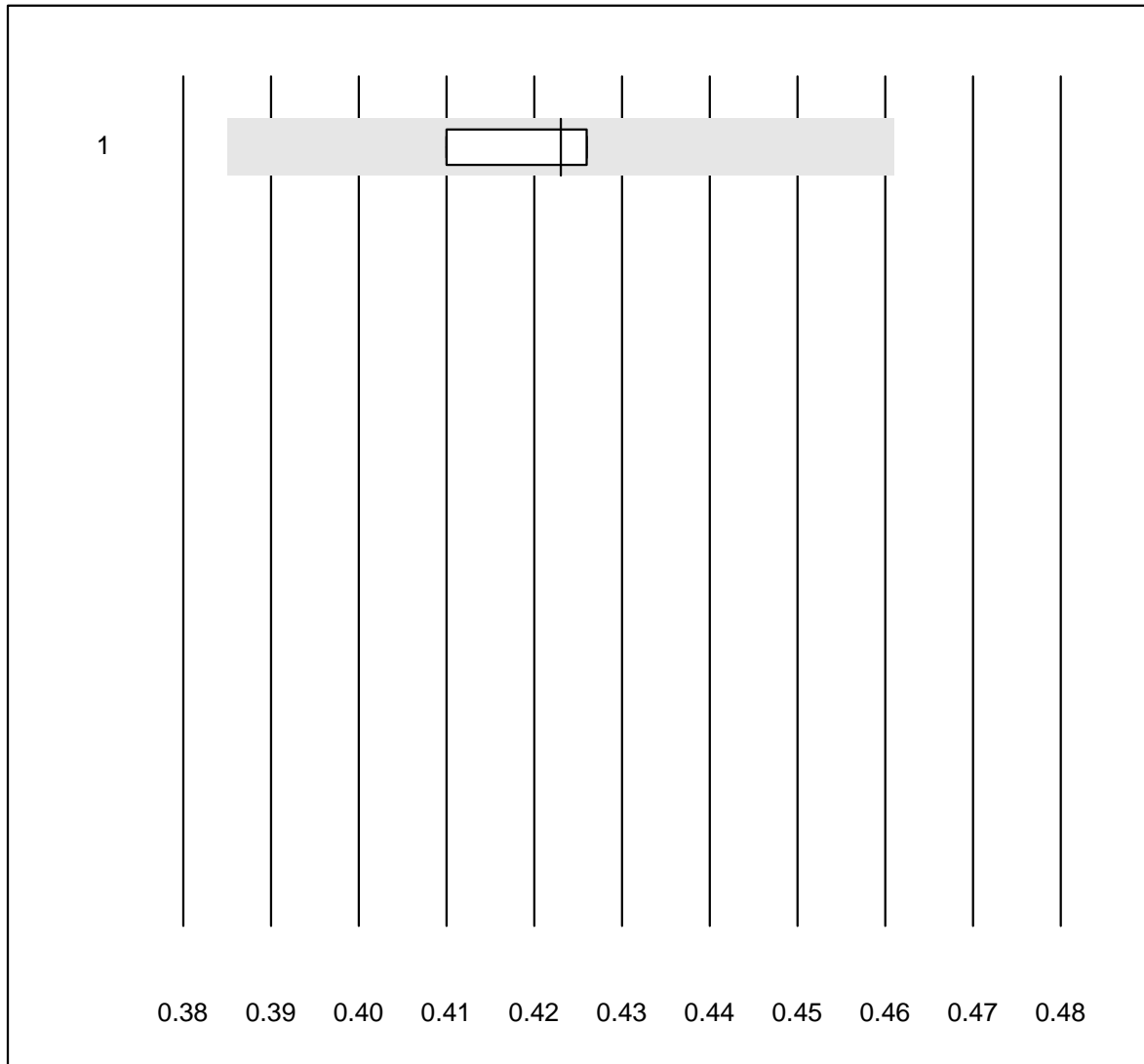


MQ tolerance : 9 %

Hemoglobin HS (g/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	PixCell HemoScreen	6	50.0	0.0	50.0	172.0	3.3	a

Hematocrit HS

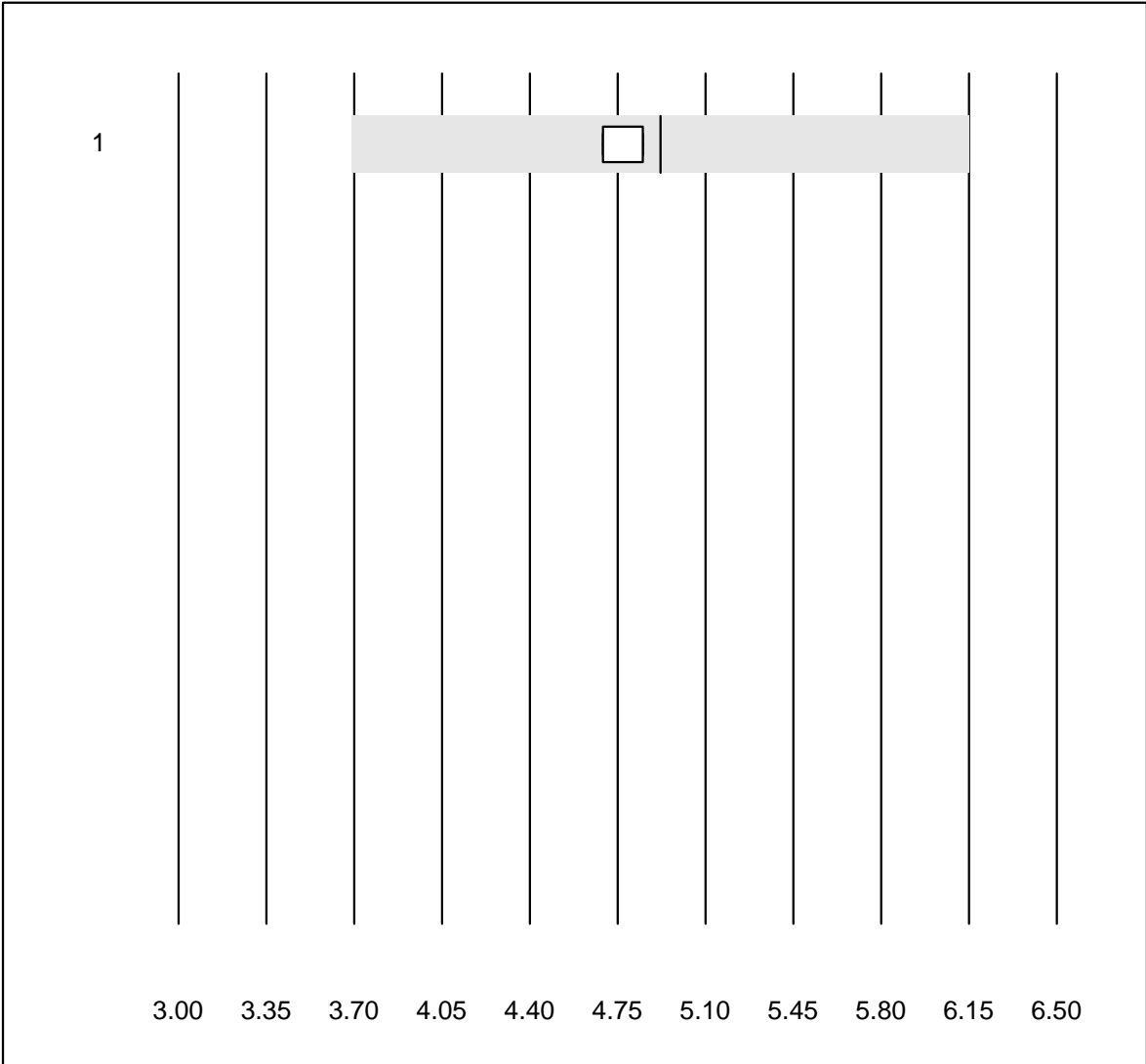


MQ tolerance : 9 %

Hematocrit HS (l/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	PixCell HemoScreen	6	50.0	0.0	50.0	0.4	1.9	a

Erythrocytes HS

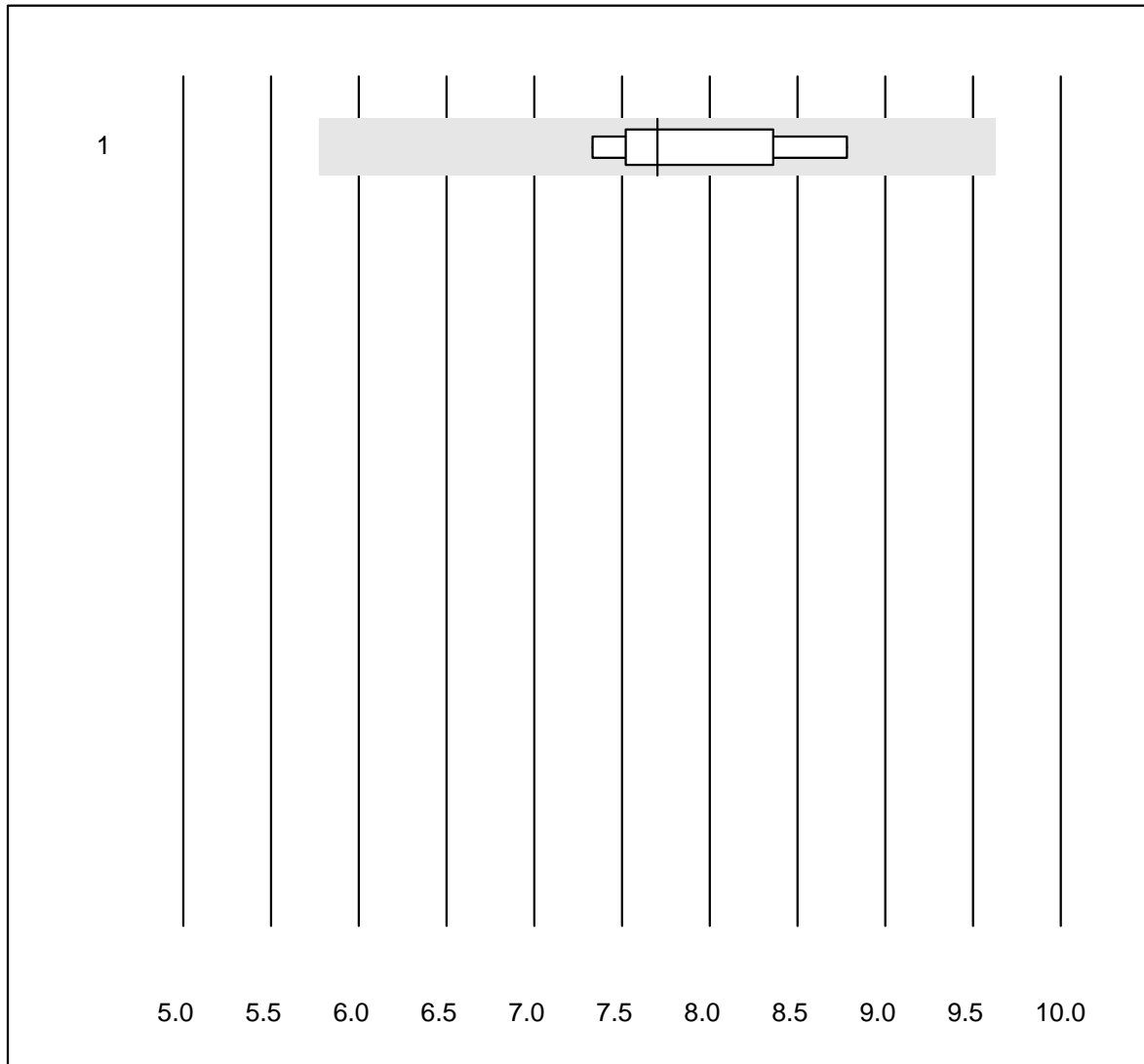


MQ tolerance : 25 %

Erythrocytes HS (T/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	PixCell HemoScreen	6	50.0	0.0	50.0	4.92	1.8	a

Leucocytes HS

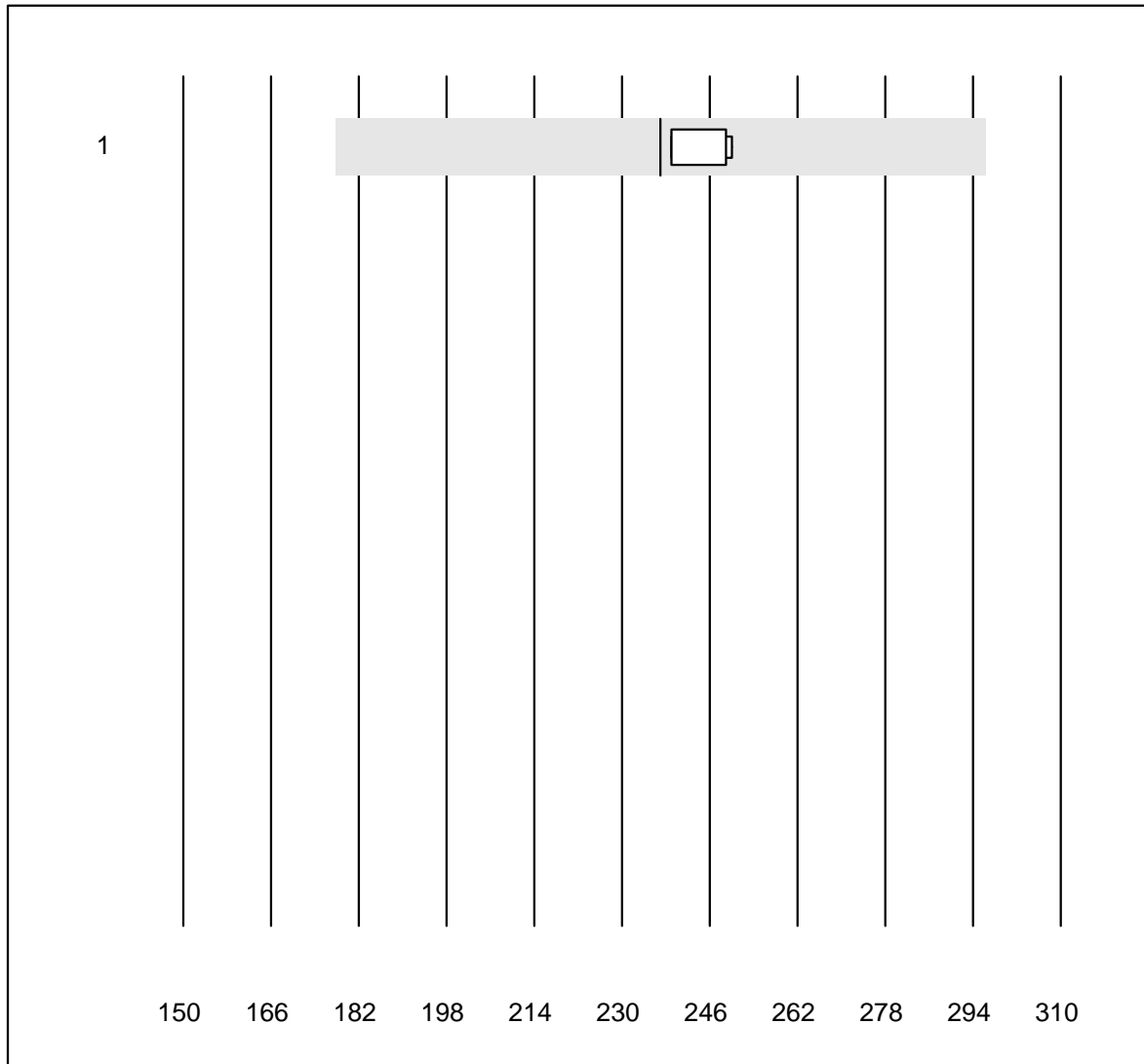


MQ tolerance : 25 %

Leucocytes HS (G/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	PixCell HemoScreen	6	100.0	0.0	0.0	7.70	7.1	a

Trombocytes HS

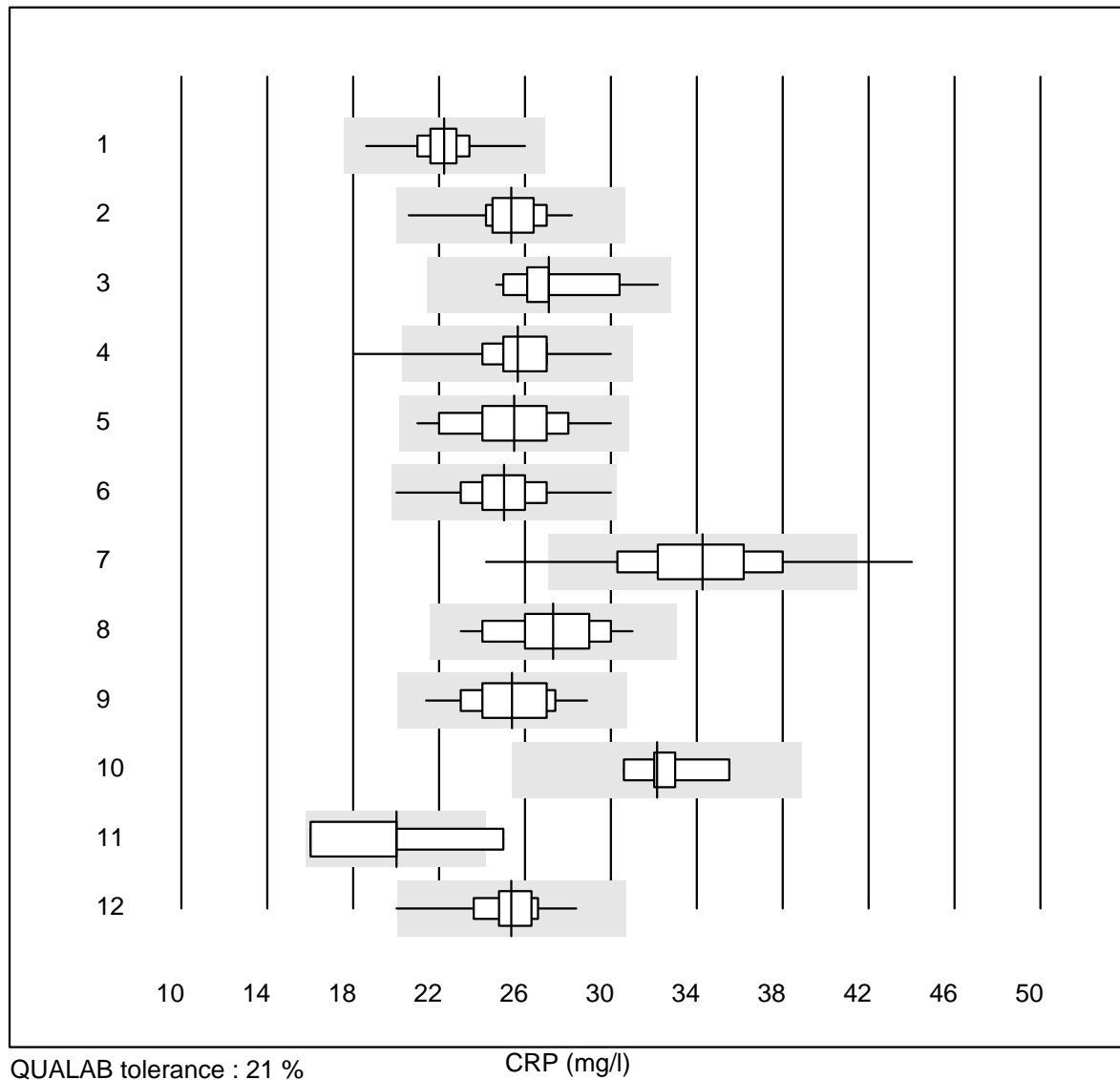


MQ tolerance : 25 %

Trombocytes HS (G/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	PixCell HemoScreen	6	100.0	0.0	0.0	237.0	2.0	a

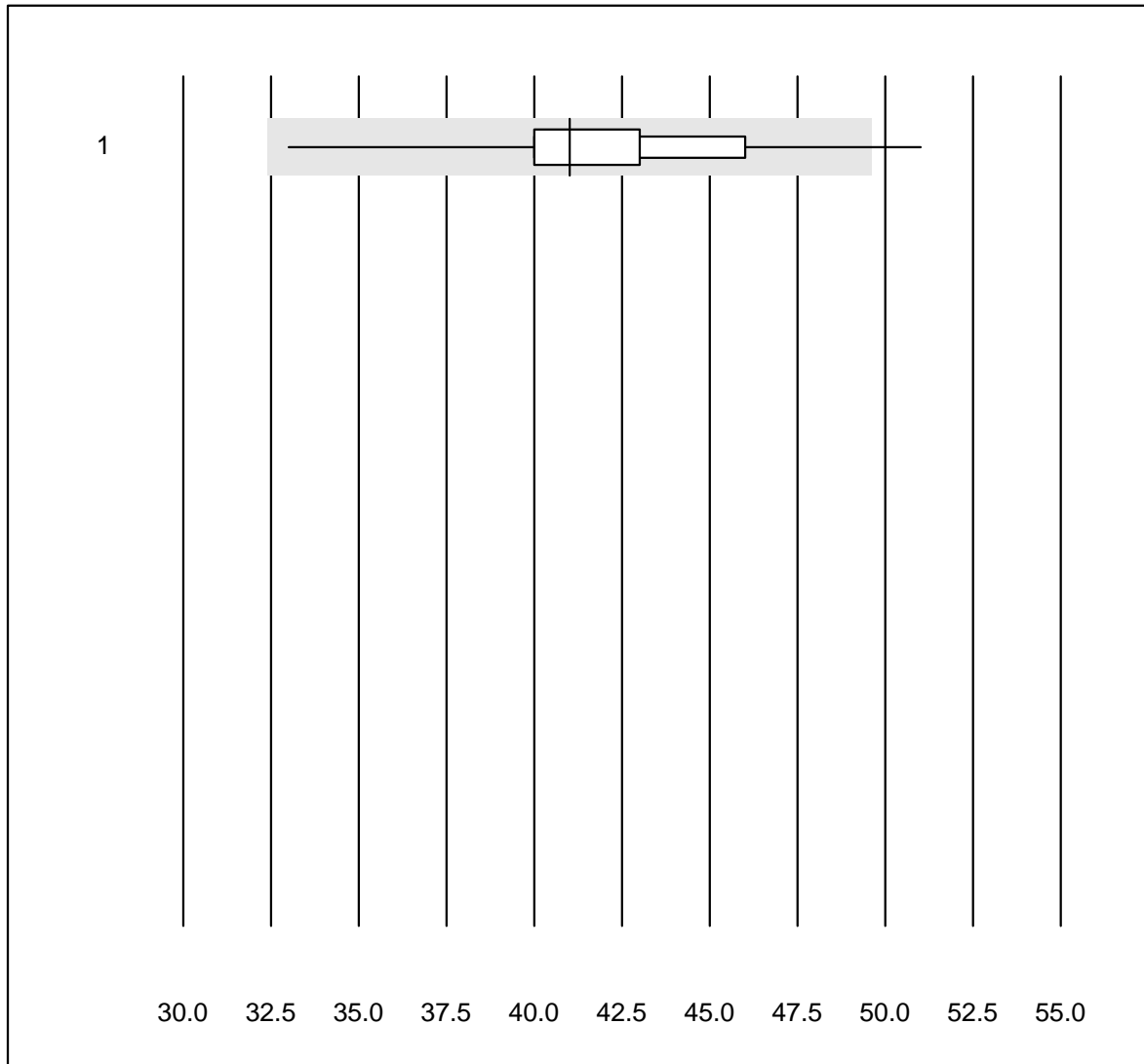
CRP



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b101	322	99.4	0.0	0.6	22.2	4.5	e
2	Cobas	32	100.0	0.0	0.0	25.4	6.4	e
3	Turbidimetry	16	87.5	0.0	12.5	27.1	8.0	e
4	Afinion	1171	97.8	2.0	0.2	25.7	6.2	e
5	NycoCard SingleTest-	83	90.4	0.0	9.6	25.5	8.6	e
6	Quick Read go	93	95.7	0.0	4.3	25.0	7.2	e
7	Eurolyser	88	79.5	8.0	12.5	34.3	10.7	e
8	Fuji Dri-Chem	15	86.7	0.0	13.3	27.3	8.5	e
9	Autolyser/DiaSys	12	100.0	0.0	0.0	25.4	8.1	e
10	Piccolo	6	100.0	0.0	0.0	32.2	5.0	e
11	Nephelometry	4	75.0	25.0	0.0	20.0	18.2	e*
12	Celltac chemi	45	97.8	2.2	0.0	25.4	5.7	e

One result was submitted but not published because the method group was too small. (<4 results per group)

CRP

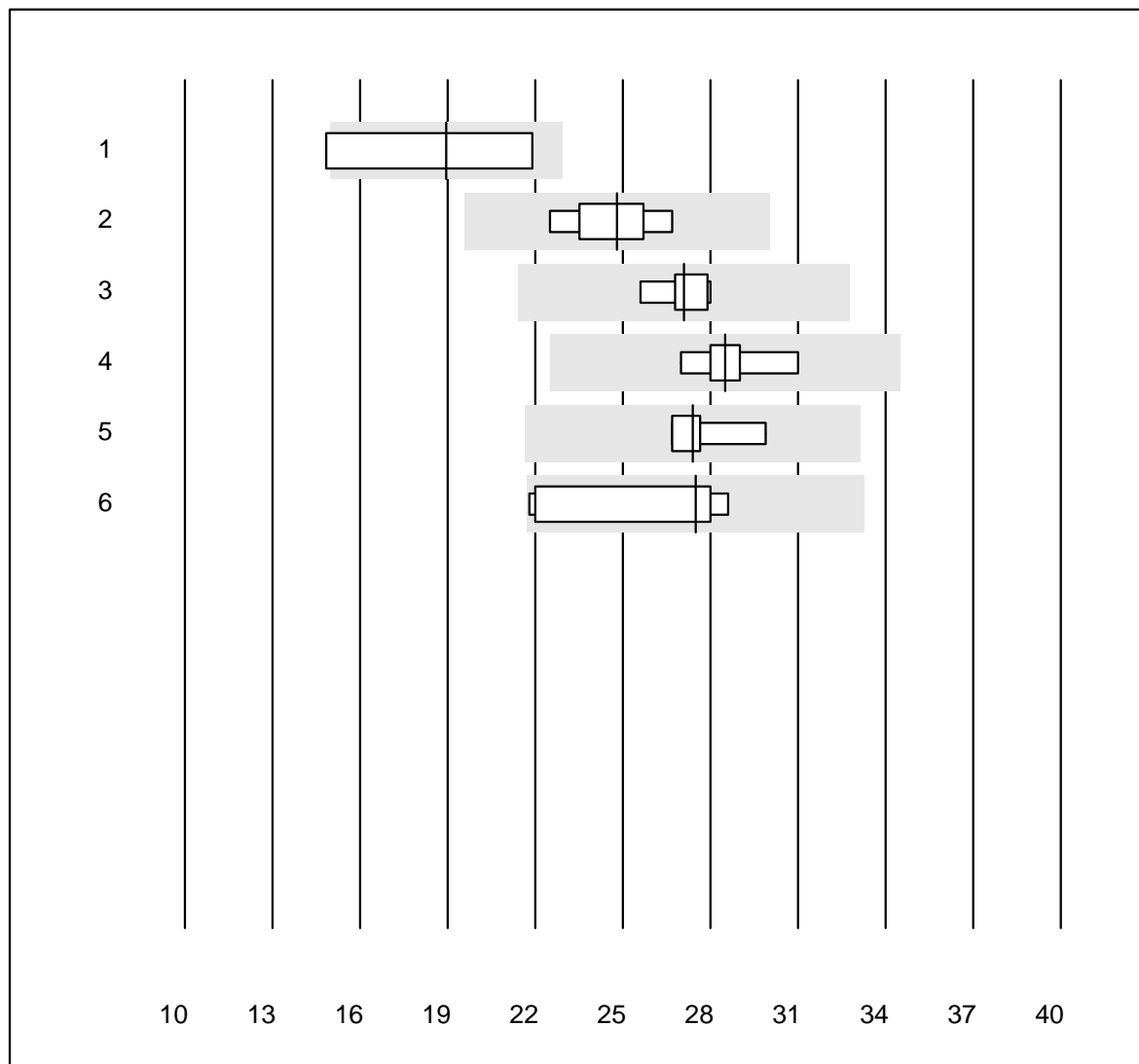


QUALAB tolerance : 21 %

CRP (mg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	QuikRead (Vollblut)	25	84.0	4.0	12.0	41.0	8.3	e

CRP



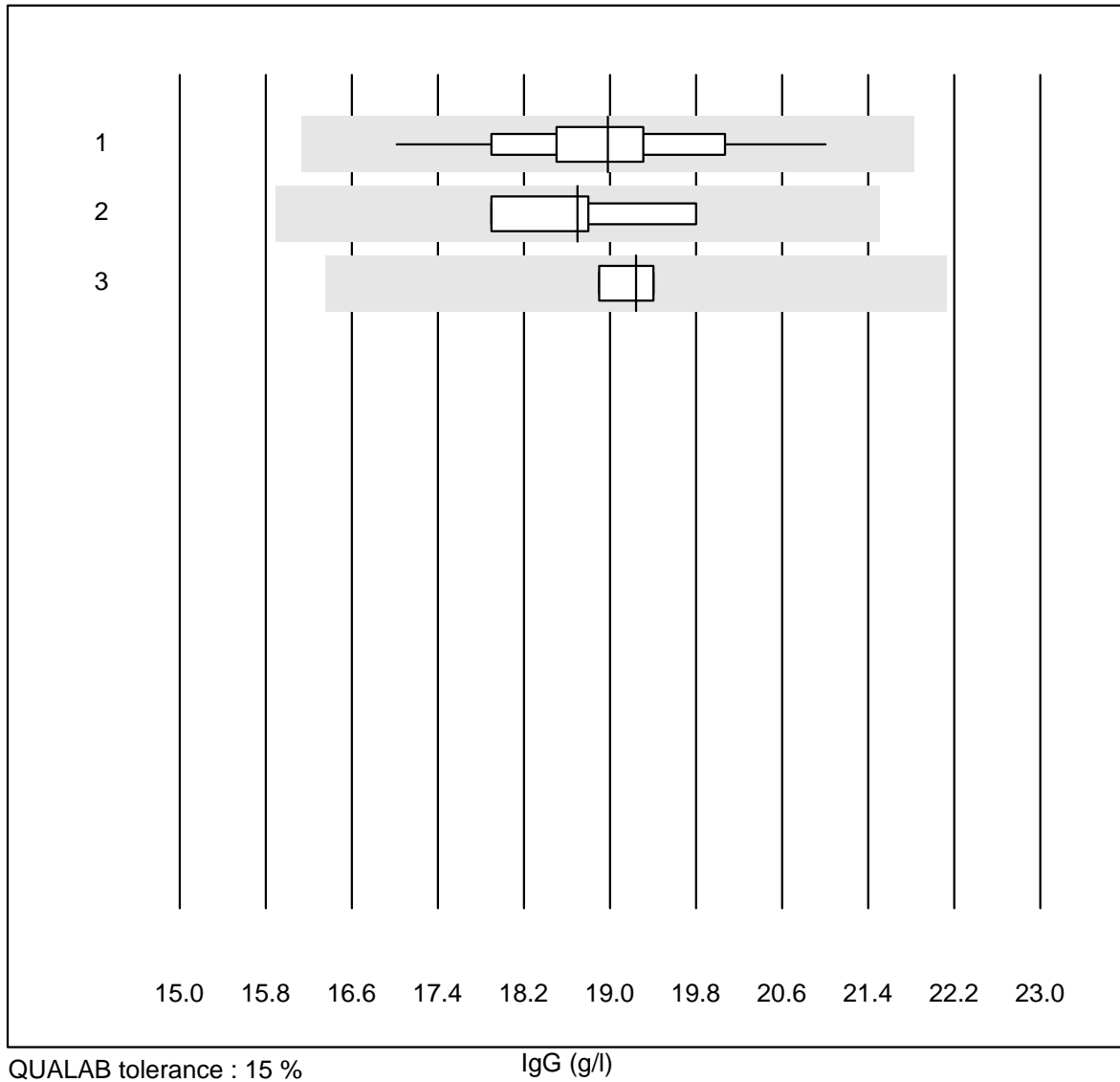
QUALAB tolerance : 21 %

CRP (mg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Lumira Dx	6	33.3	16.7	50.0	19.0	21.5	e*
2	Spinit	9	100.0	0.0	0.0	24.8	5.4	e
3	Architect	10	100.0	0.0	0.0	27.1	3.1	e
4	AQT 90 FLEX	6	100.0	0.0	0.0	28.5	4.8	e
5	Spotchem D-Concept	5	100.0	0.0	0.0	27.4	4.7	e
6	Other methods	6	100.0	0.0	0.0	27.5	11.9	e*

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

IgG

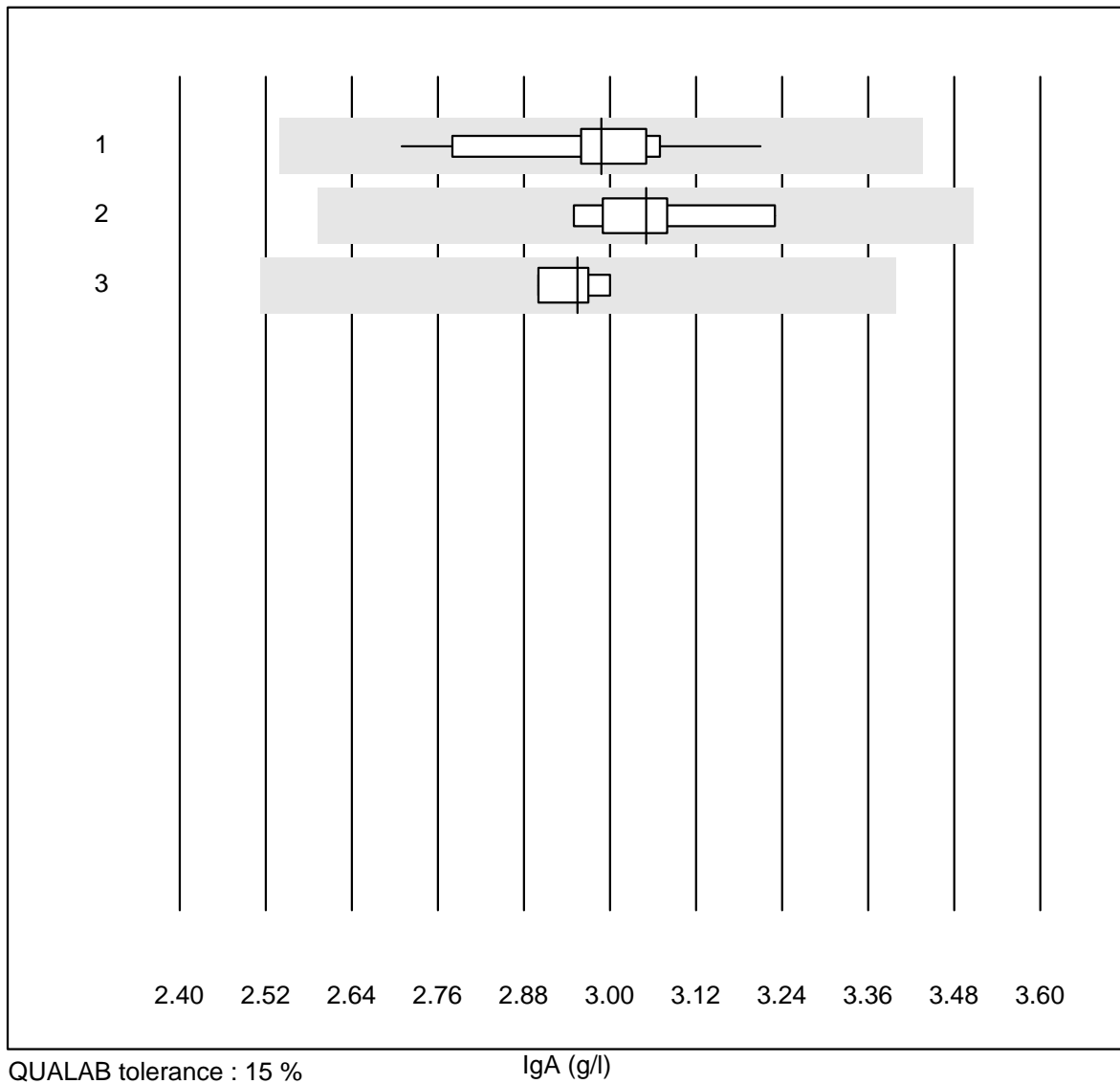


QUALAB tolerance : 15 %

IgG (g/l)

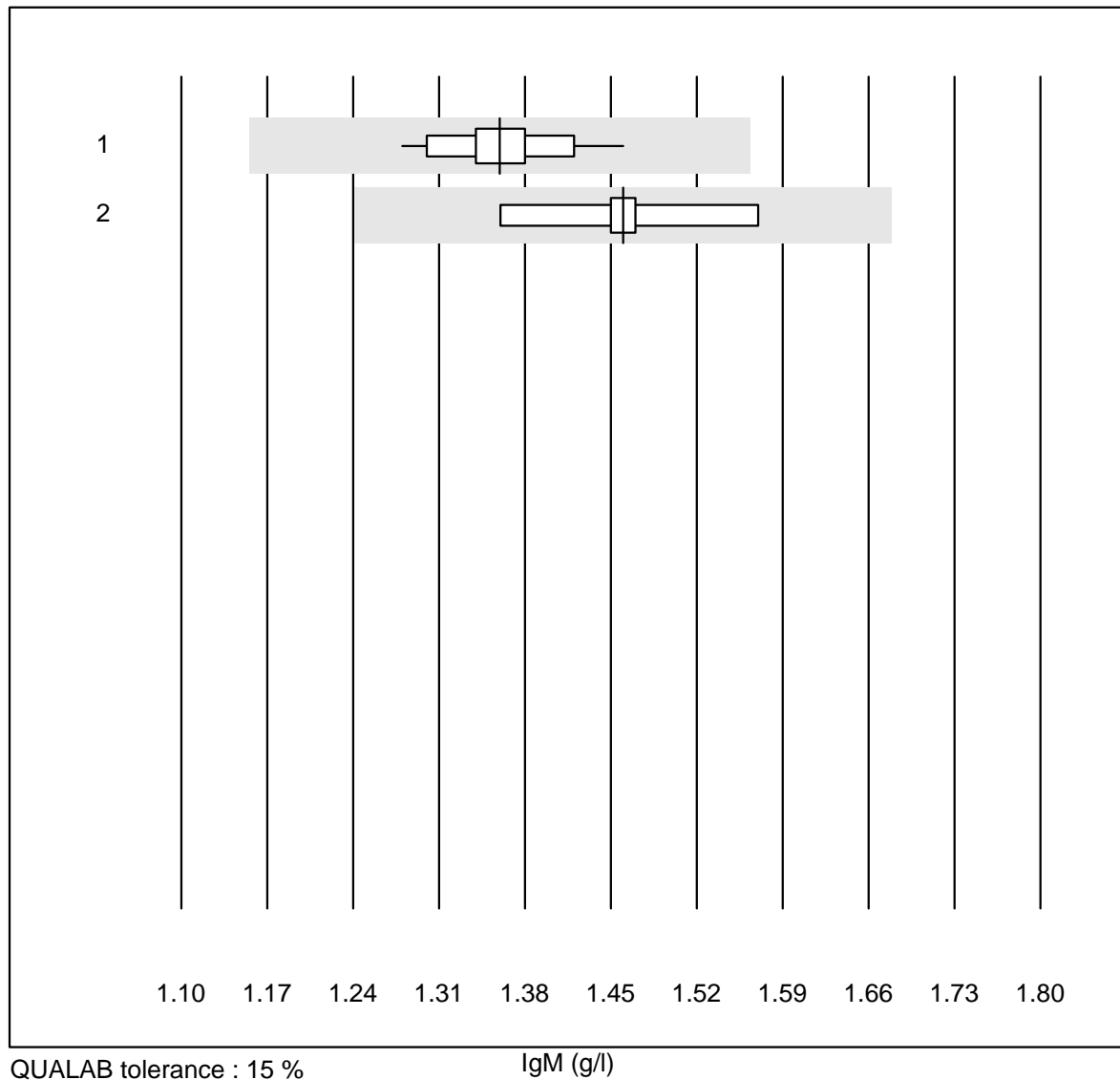
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Turbidimetry	19	100.0	0.0	0.0	18.98	4.5	e
2	Nephelometry	4	100.0	0.0	0.0	18.70	4.2	e*
3	Other methods	4	100.0	0.0	0.0	19.25	1.3	e

IgA



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Turbidimetry	17	100.0	0.0	0.0	2.99	3.8	e
2	Nephelometry	5	100.0	0.0	0.0	3.05	3.5	e
3	Other methods	4	100.0	0.0	0.0	2.96	1.4	e

IgM



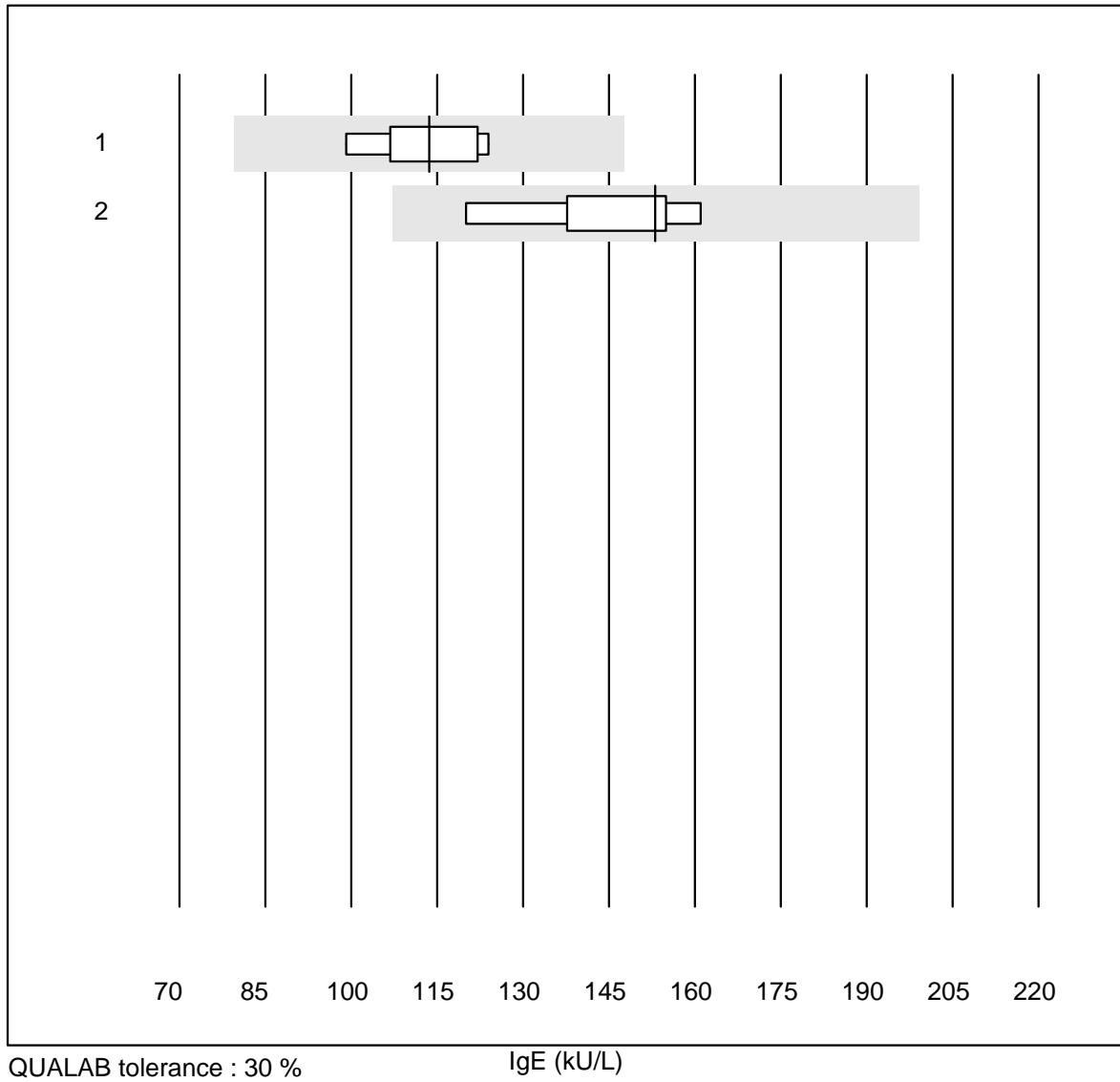
QUALAB tolerance : 15 %

IgM (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Turbidimetry	18	100.0	0.0	0.0	1.36	3.3	e
2	Nephelometry	5	100.0	0.0	0.0	1.46	5.1	e*

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

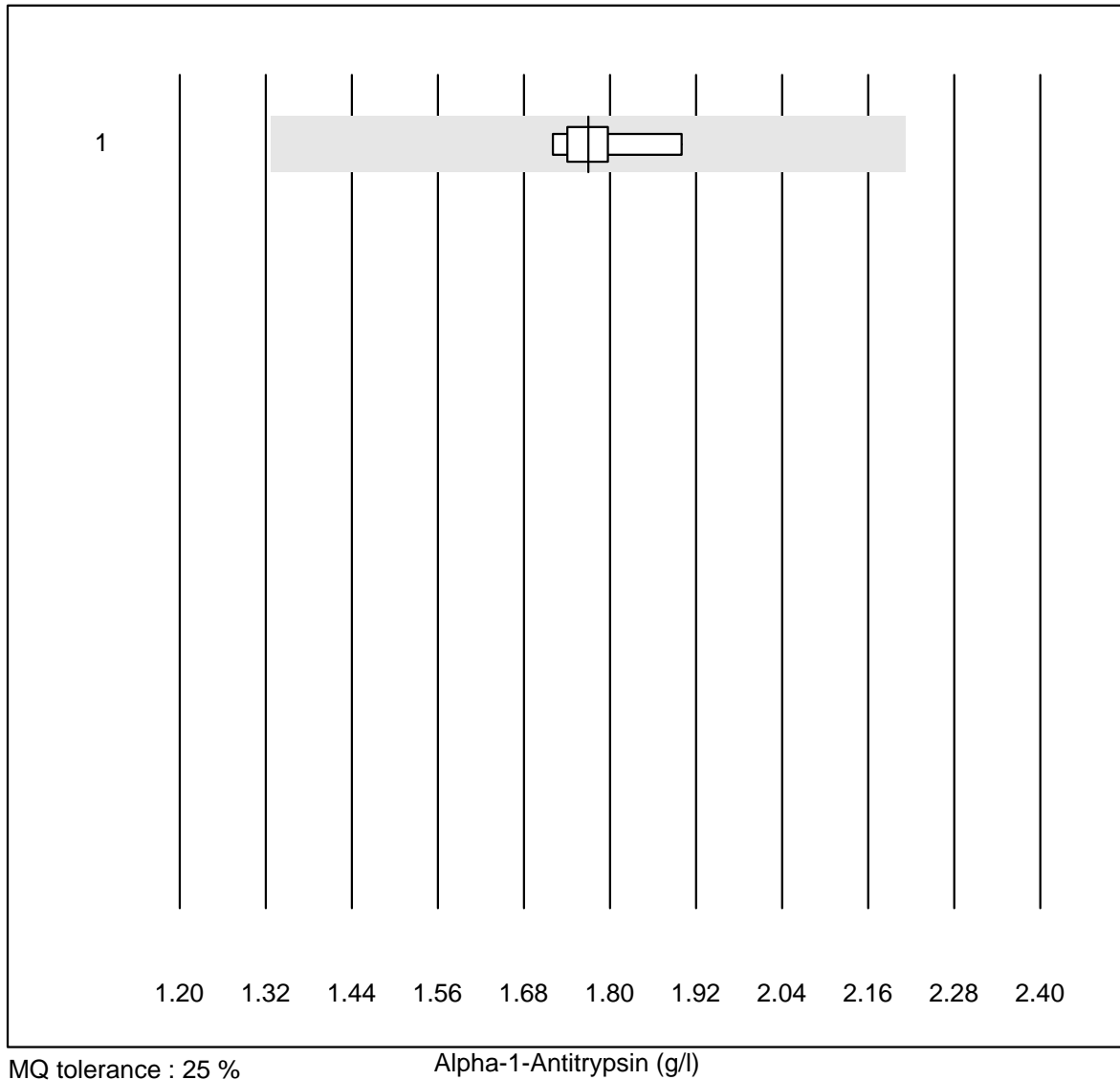
IgE



QUALAB tolerance : 30 %

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	5	100.0	0.0	0.0	114	9.2	e*
2 Cobas	6	100.0	0.0	0.0	153	10.3	e*

Alpha-1-Antitrypsin

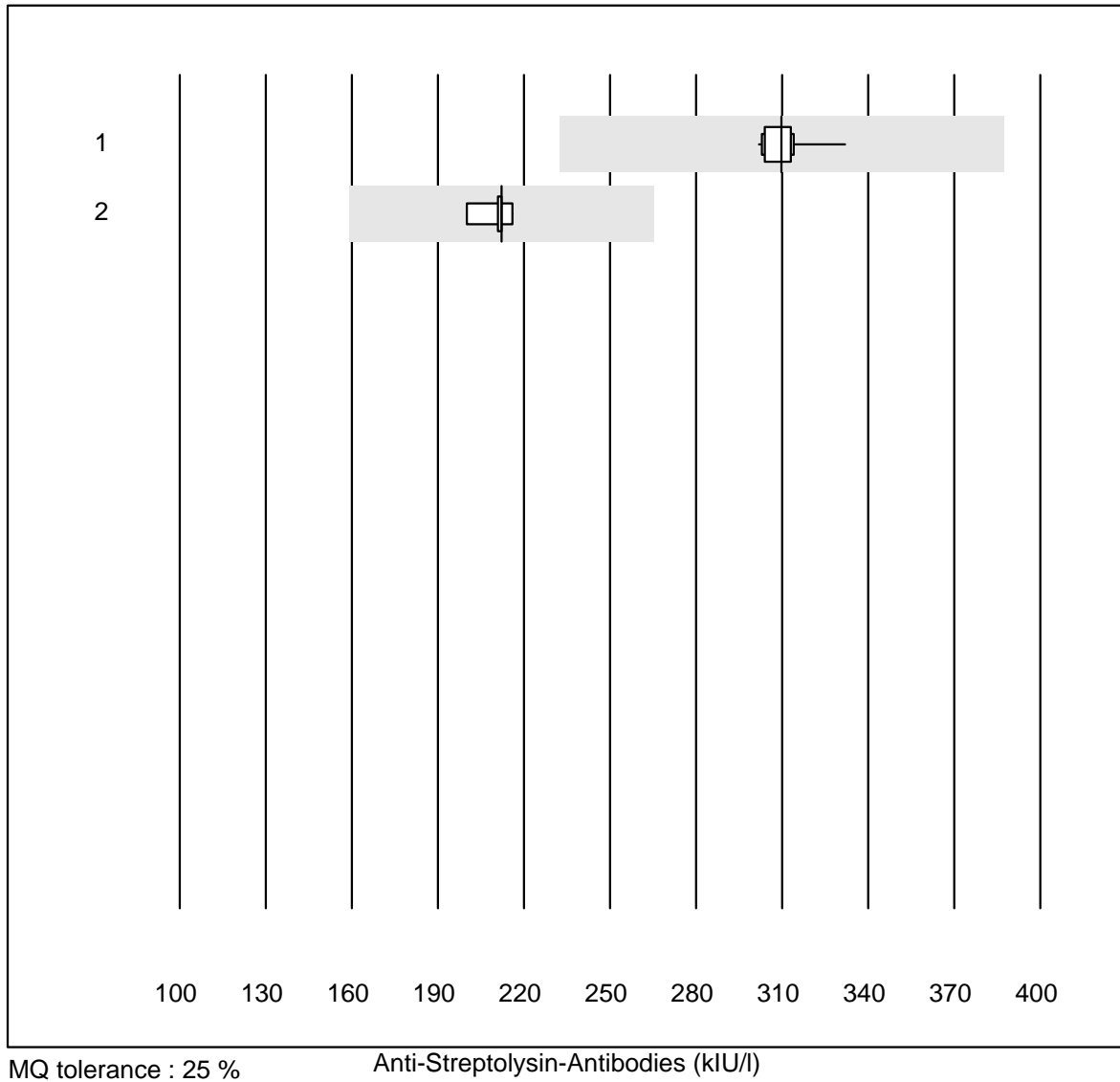


MQ tolerance : 25 %

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	8	100.0	0.0	0.0	1.77	3.2	e

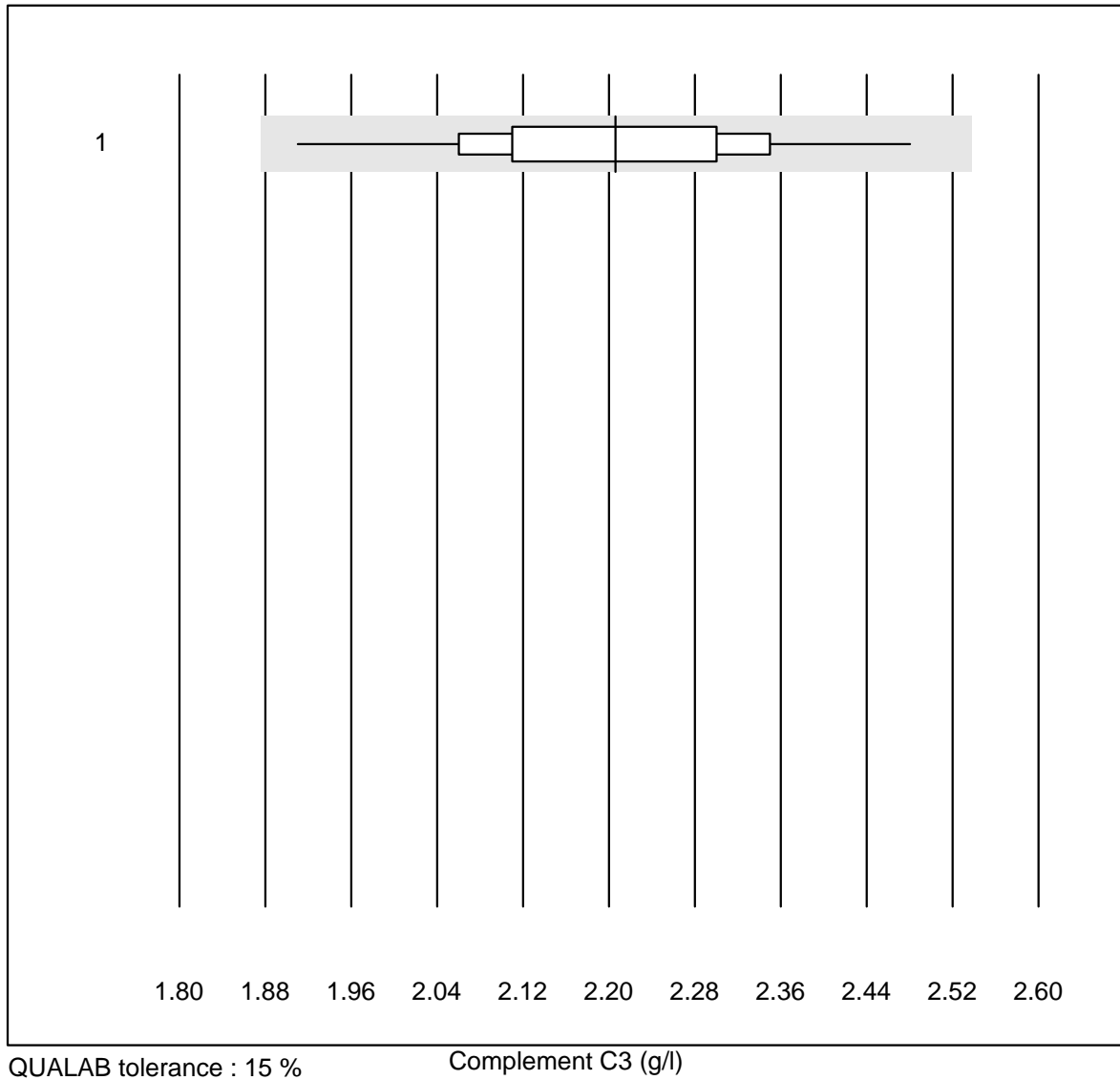
3 additional results were submitted, but not published, because the Method groups were too small. (<4 results per group)

Anti-Streptolysin-Antibodies



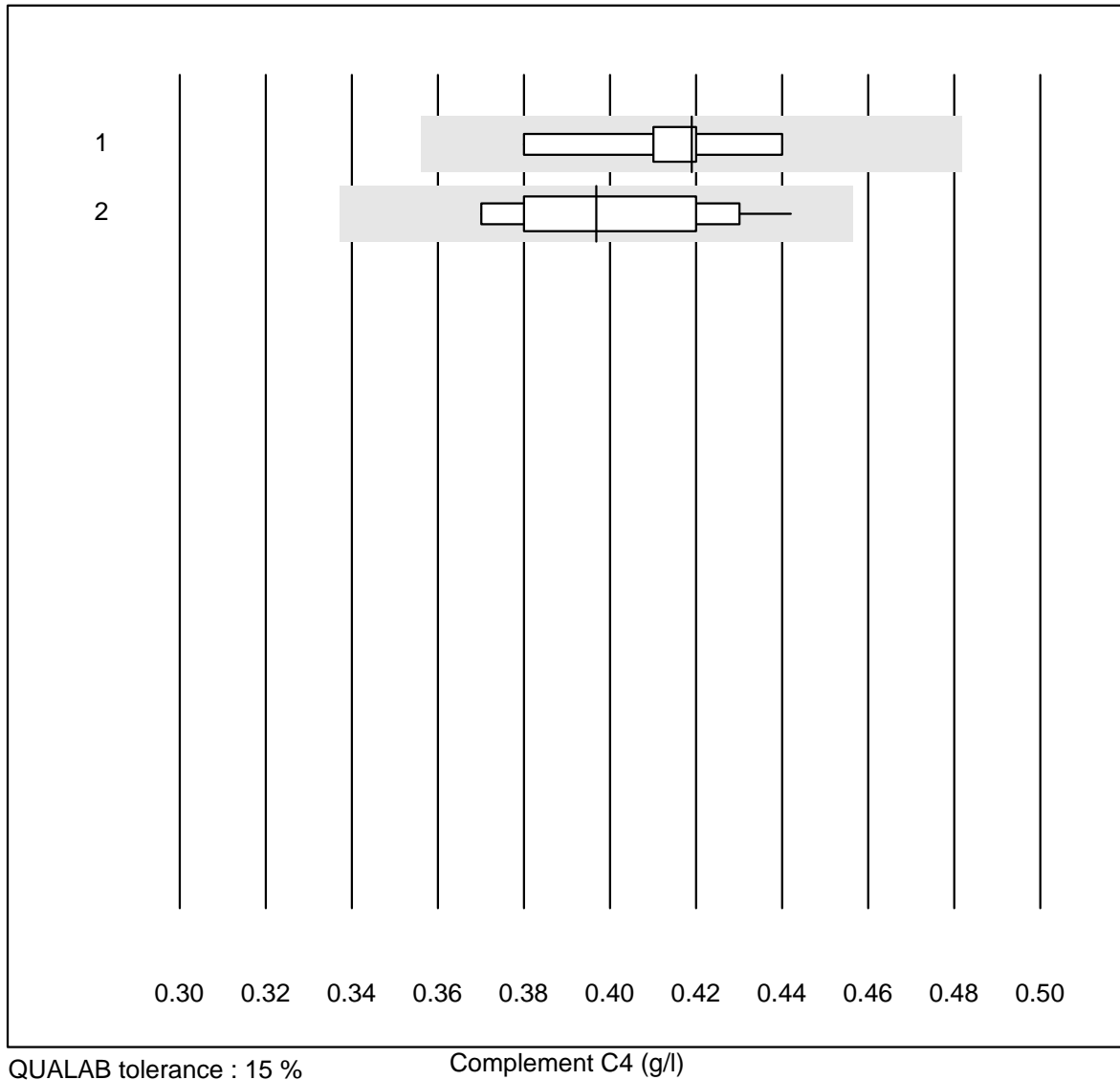
No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	11	100.0	0.0	0.0	310	2.7	e
2	Other methods	5	100.0	0.0	0.0	212	2.9	e

Complement C3



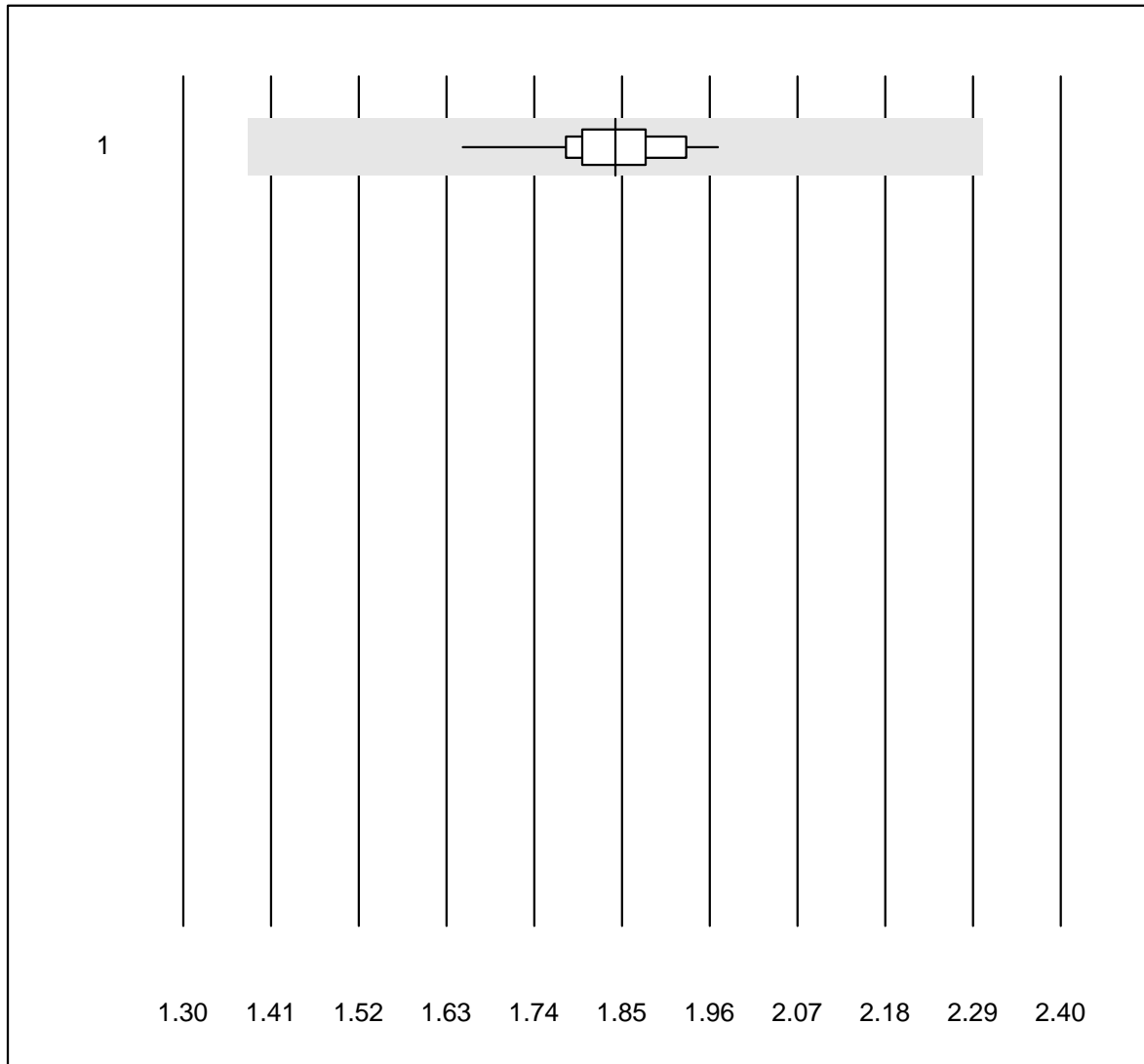
No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	19	100.0	0.0	0.0	2.21	5.9	e

Complement C4



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Alinity	5	100.0	0.0	0.0	0.42	5.3	e*
2 Other methods	13	100.0	0.0	0.0	0.40	6.1	e

Haptoglobin

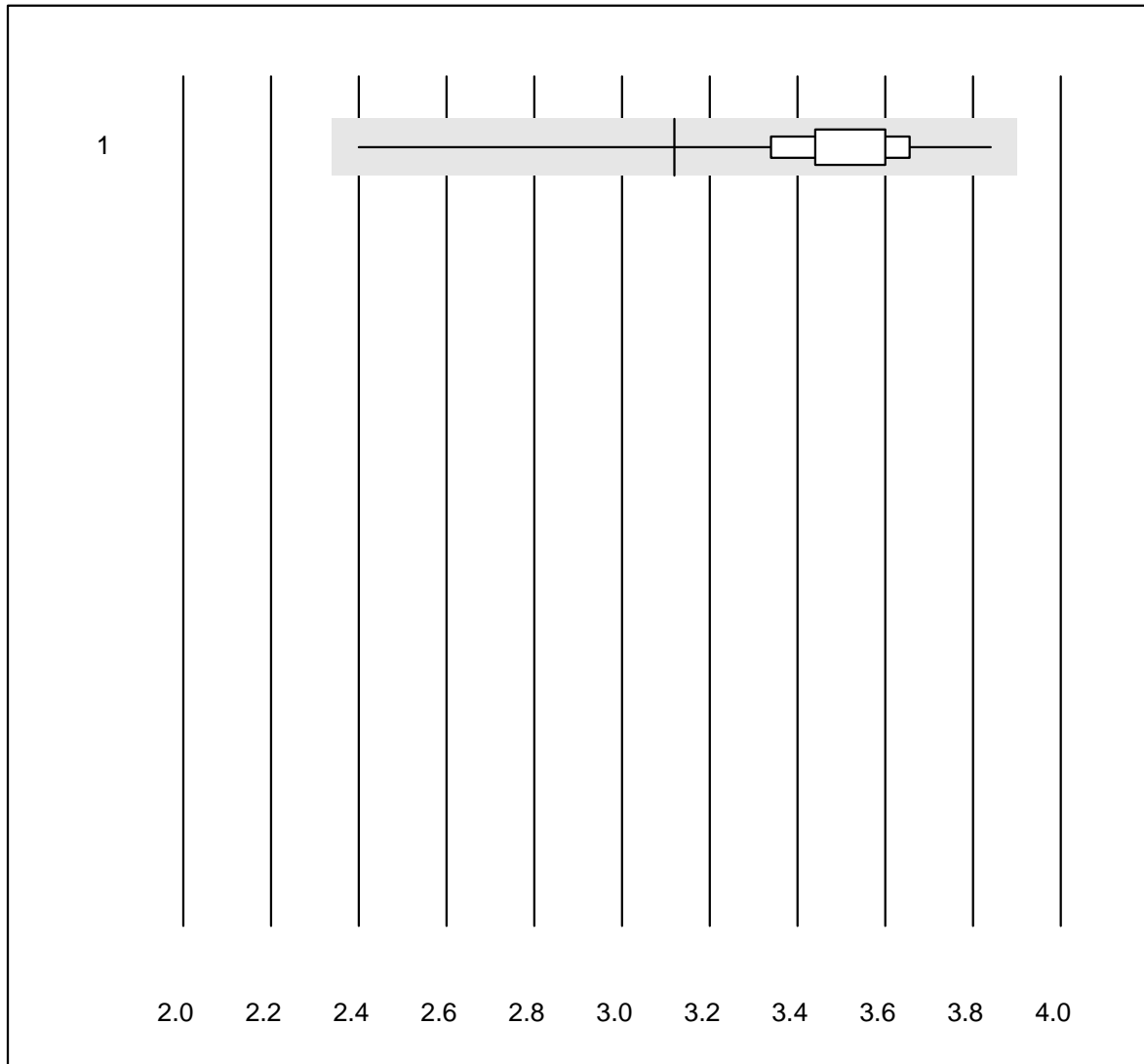


MQ tolerance : 25 %

Haptoglobin (g/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	24	100.0	0.0	0.0	1.84	3.8	e

Transferrin

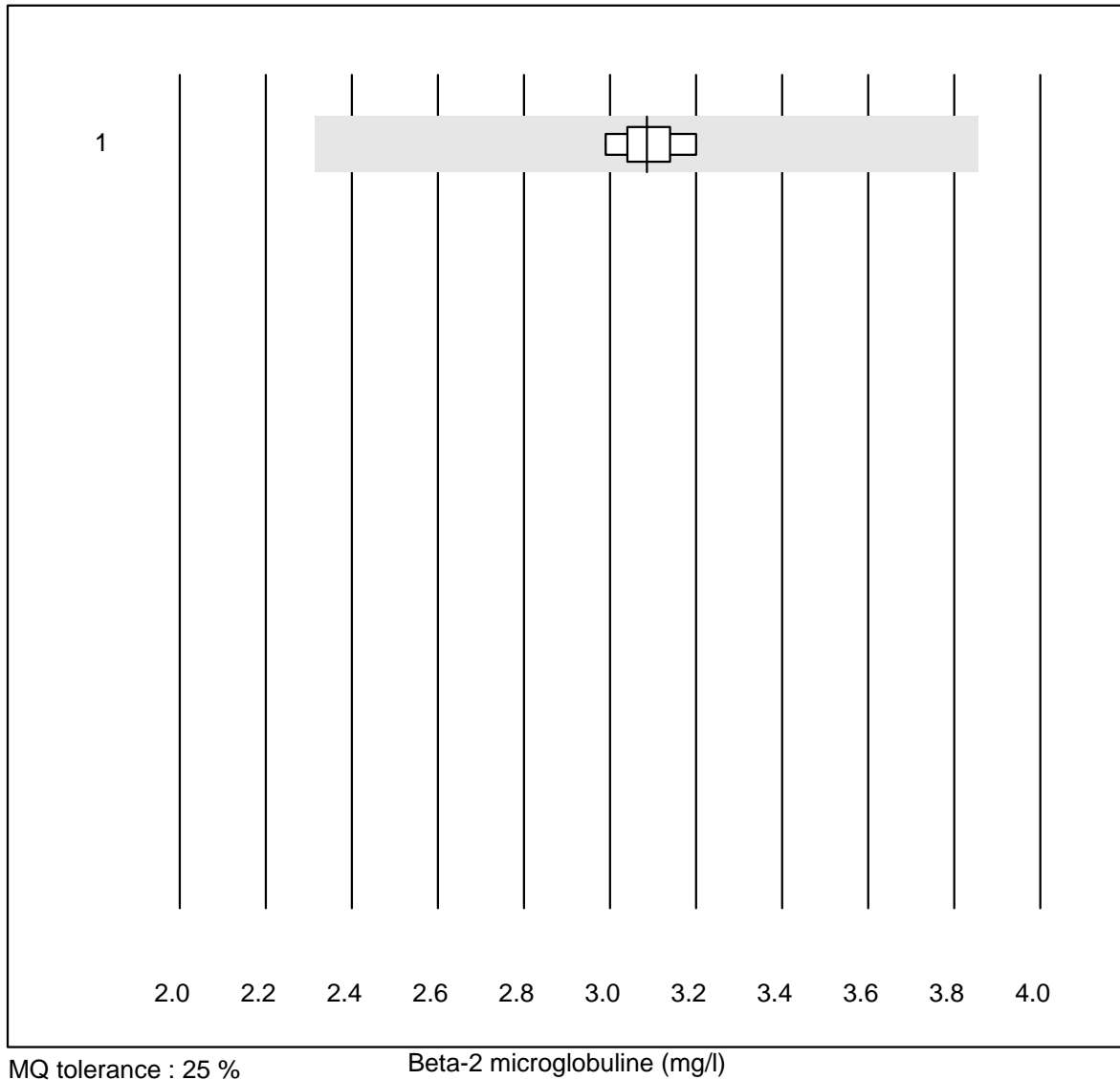


MQ tolerance : 25 %

Transferrin (g/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	28	100.0	0.0	0.0	3.12	8.8	a

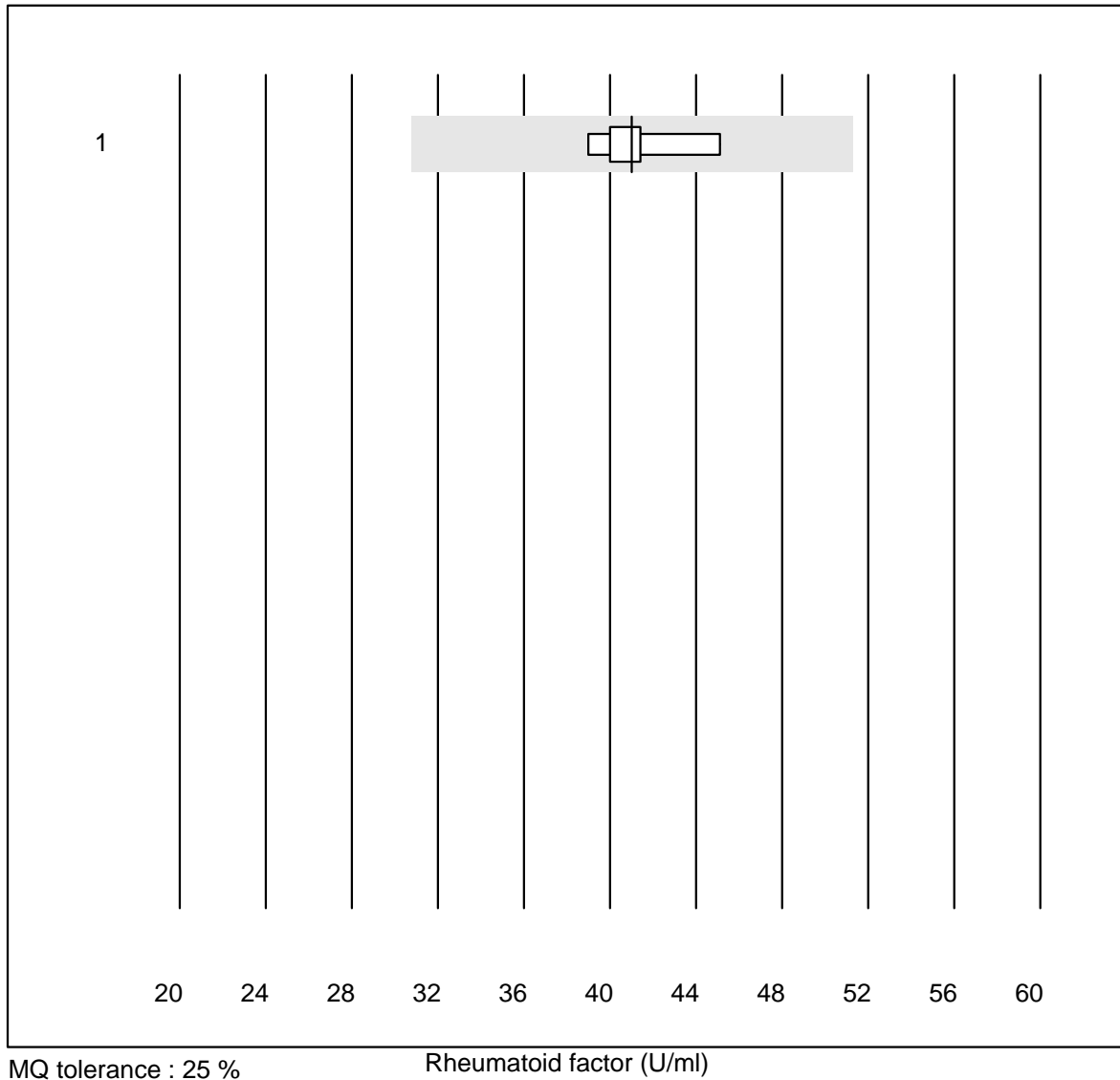
Beta-2 microglobuline



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	8	100.0	0.0	0.0	3.09	2.4	e

One result was submitted but not published because the method group was too small. (<4 results per group)

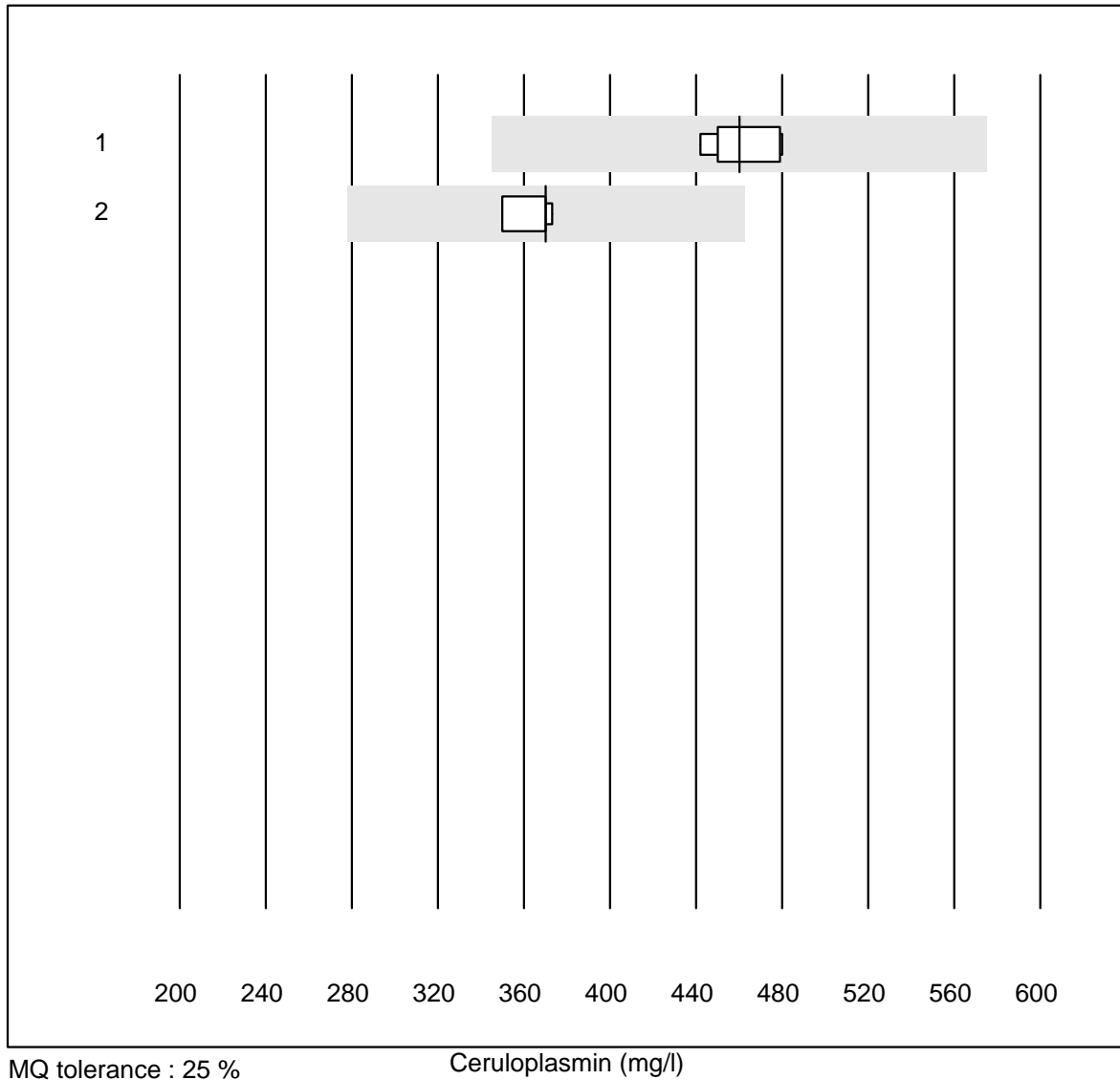
Rheumatoid factor



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Architect	5	100.0	0.0	0.0	41.0	5.6	e

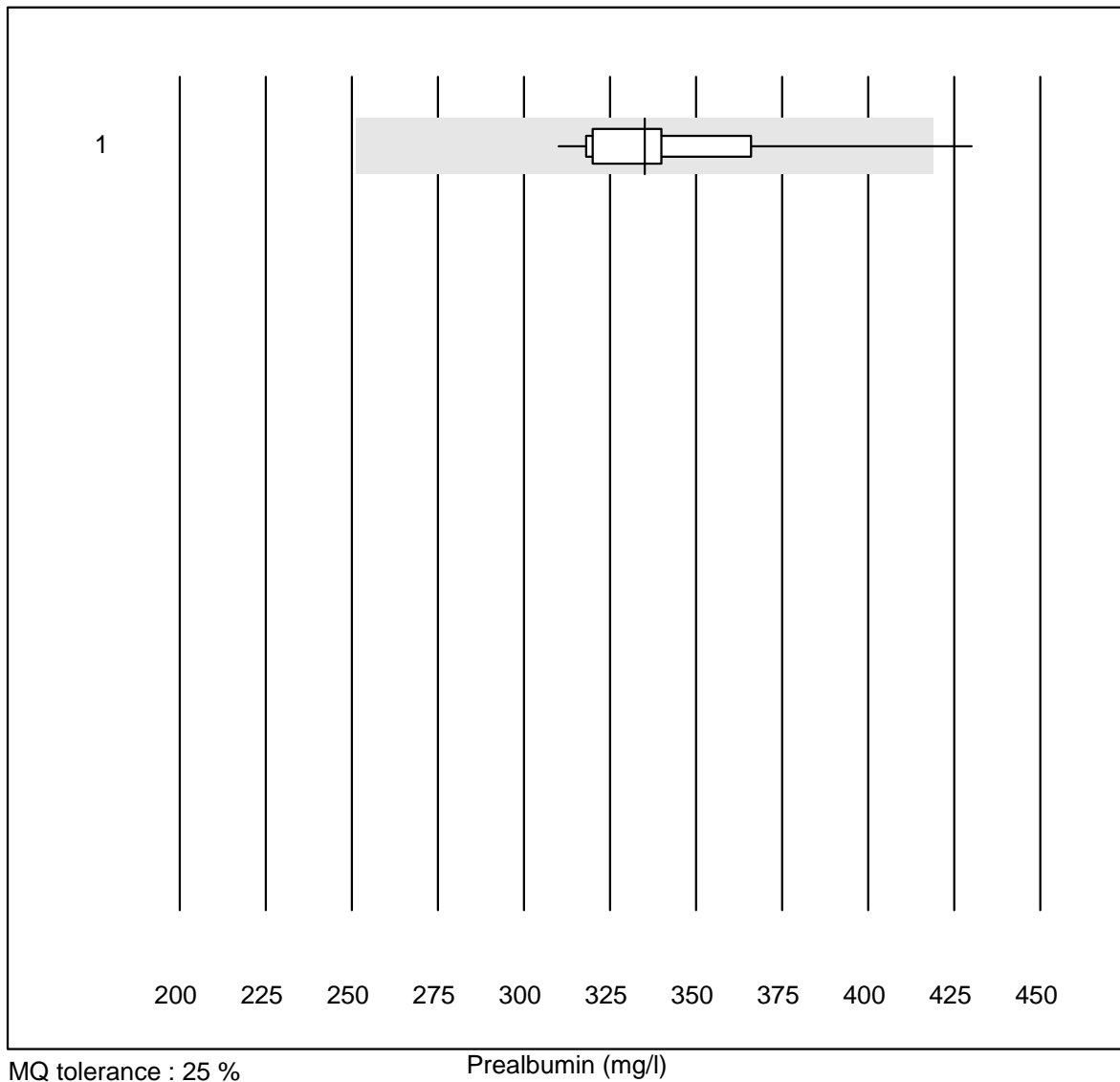
6 additional results were submitted, but not published, because the Method groups were too small. (<4 results per group)

Ceruloplasmin



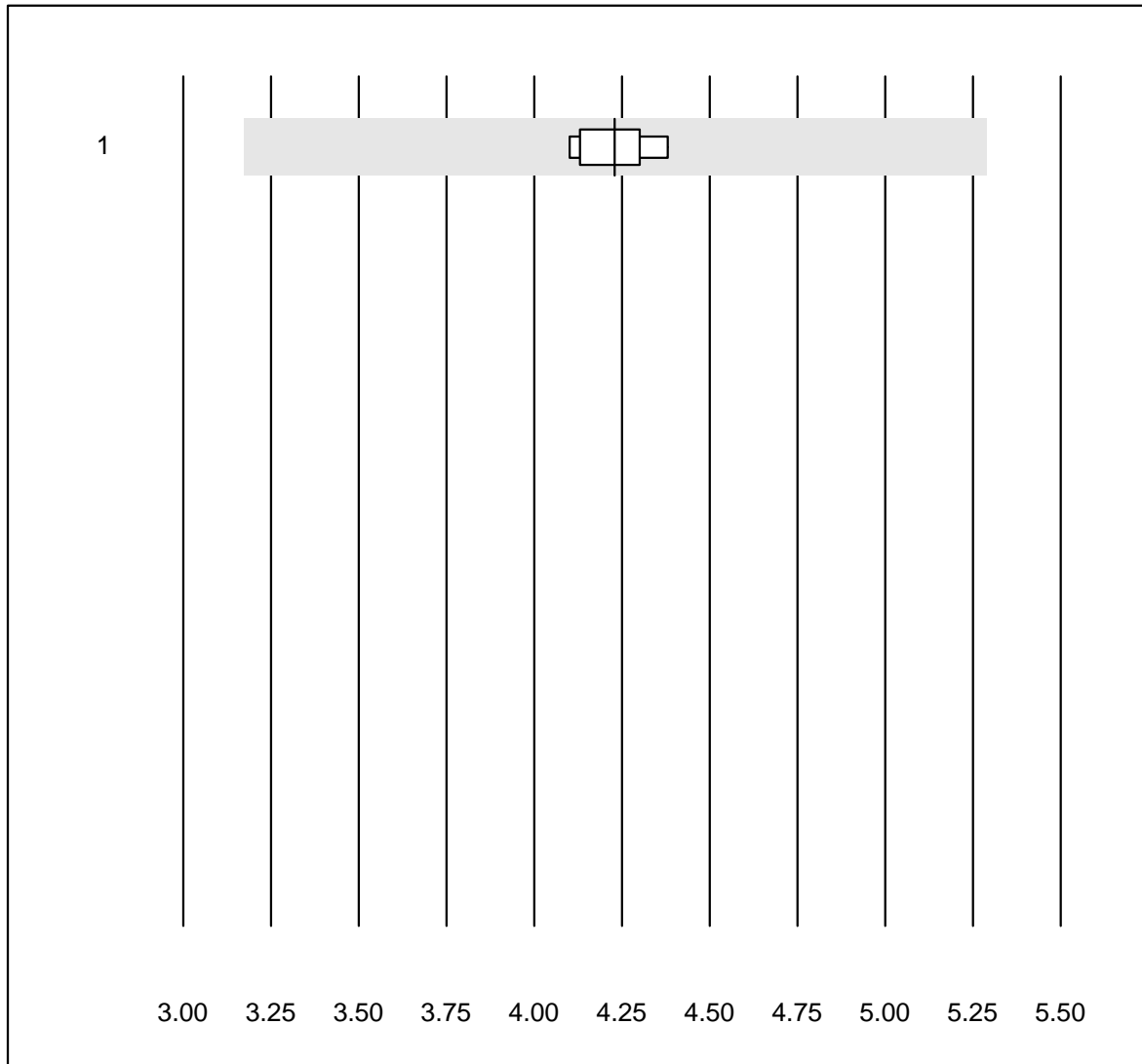
No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Siemens	7	100.0	0.0	0.0	460.00	3.2	e
2	Other methods	4	100.0	0.0	0.0	370.00	2.9	e

Prealbumin



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	17	94.1	5.9	0.0	335.1	8.3	e

Soluble transferrin receptor



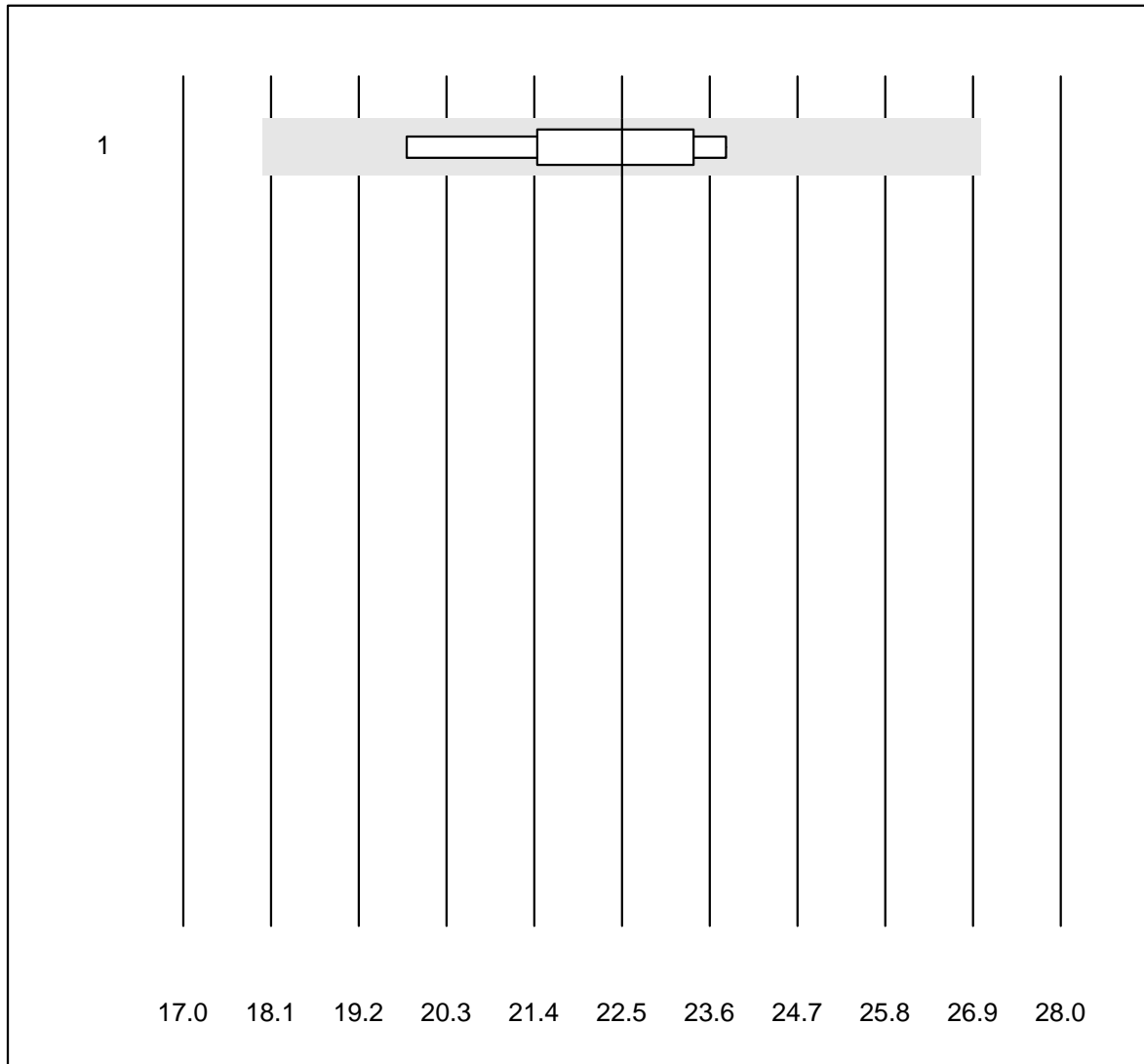
MQ tolerance : 25 %

Soluble transferrin receptor (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	7	85.7	0.0	14.3	4.2	2.5	e

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

free light chain kappa

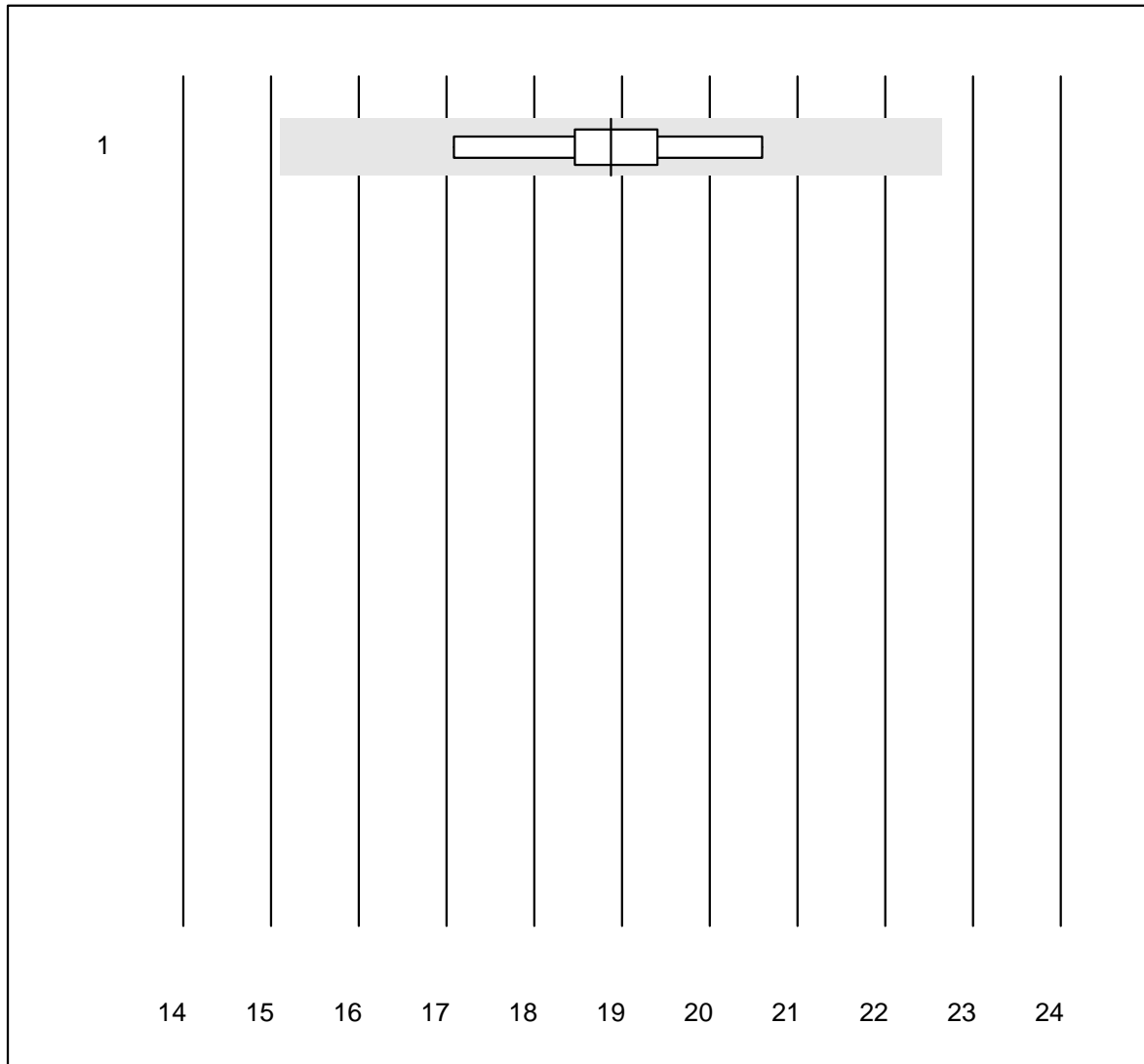


QUALAB tolerance : 20 %

free light chain kappa (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	10	80.0	0.0	20.0	23	6.0	e

free light chain lambda

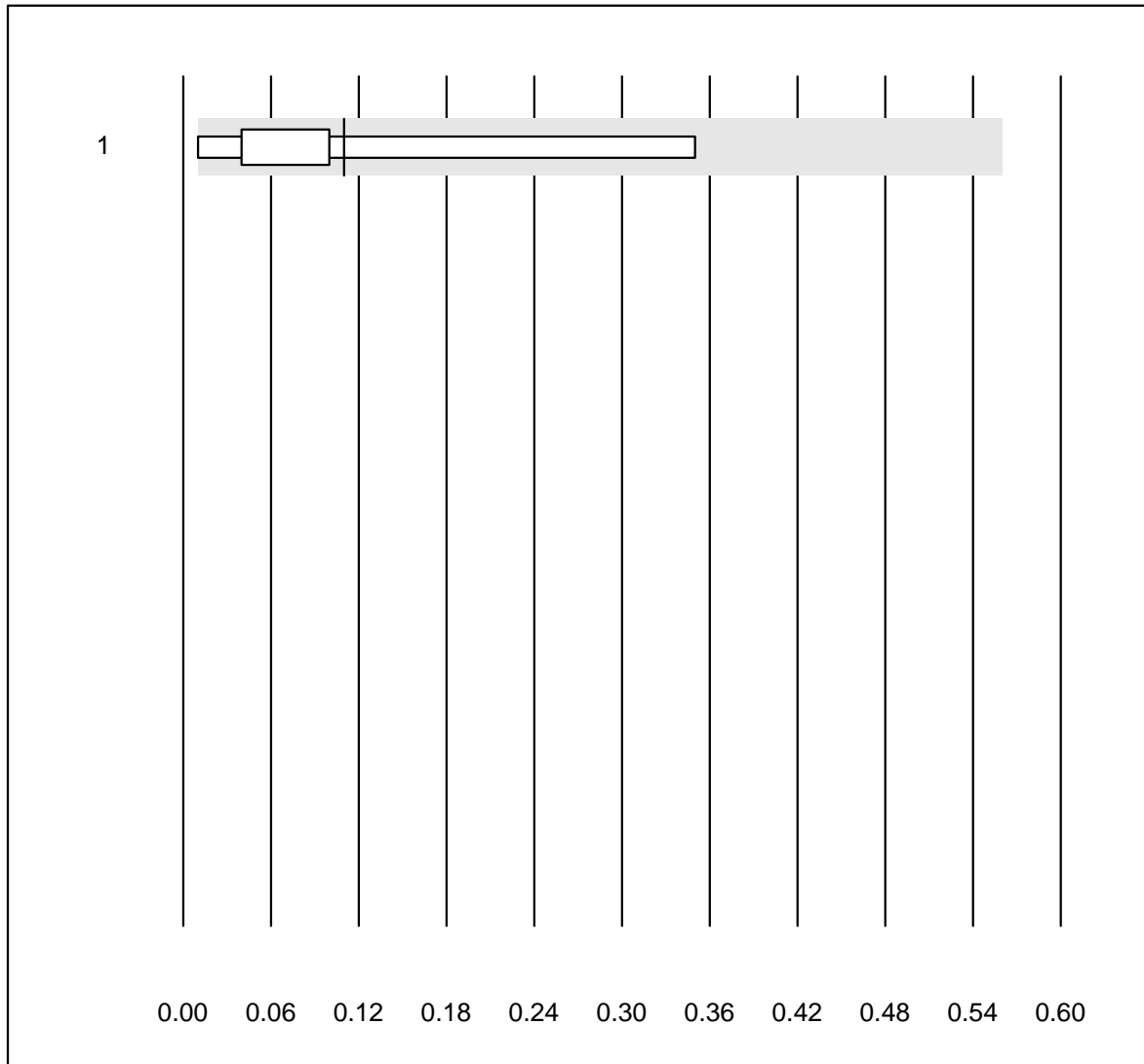


QUALAB tolerance : 20 %

free light chain lambda (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	10	80.0	0.0	20.0	19	5.4	e

IgE peanut qn

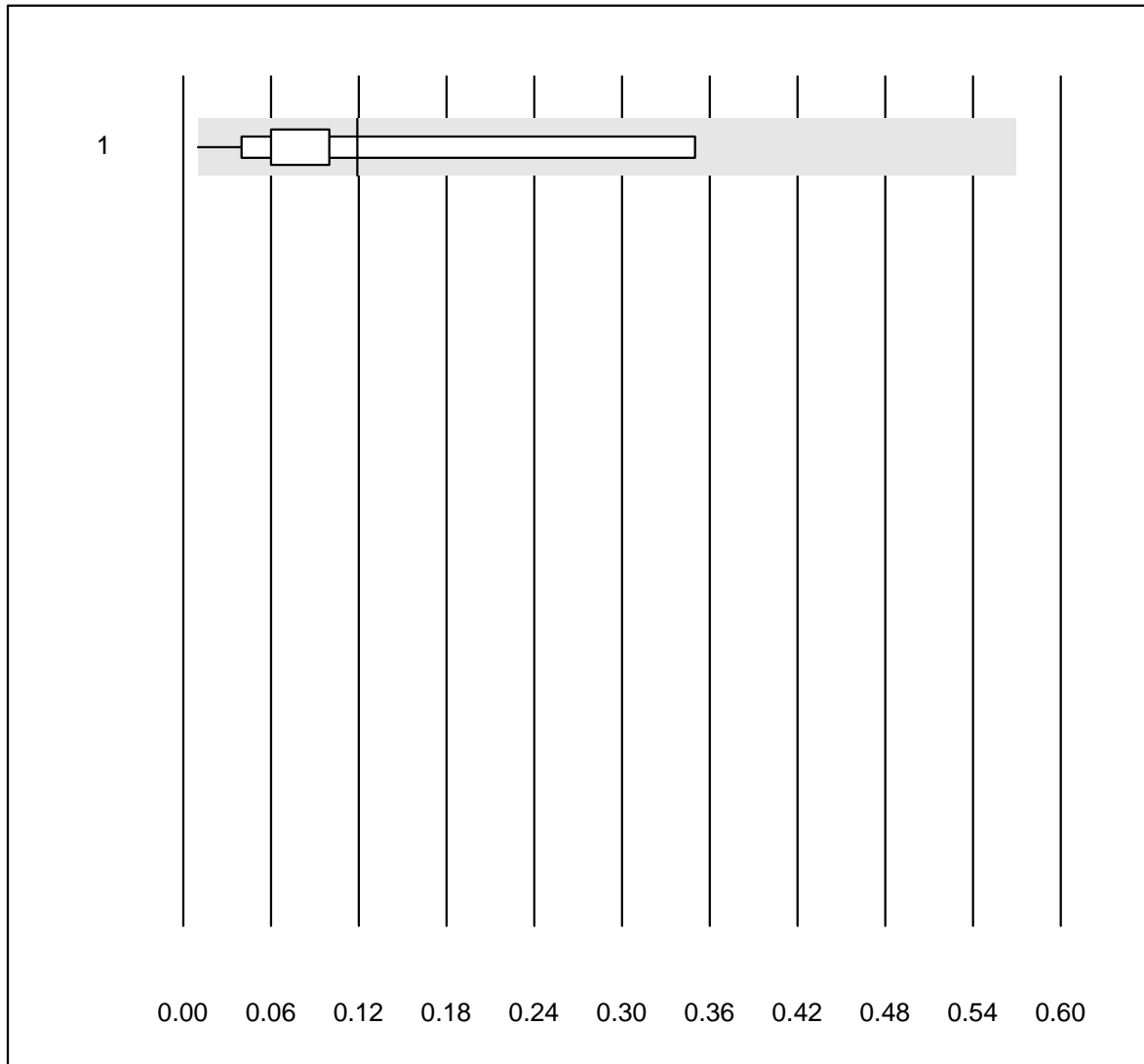


MQ tolerance : 30 %
 (< 1.50: +/- 0.45 kU/L)

IgE peanut qn (kU/L)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	13	100.0	0.0	0.0	0.11	102.3	e*

IgE birch qn

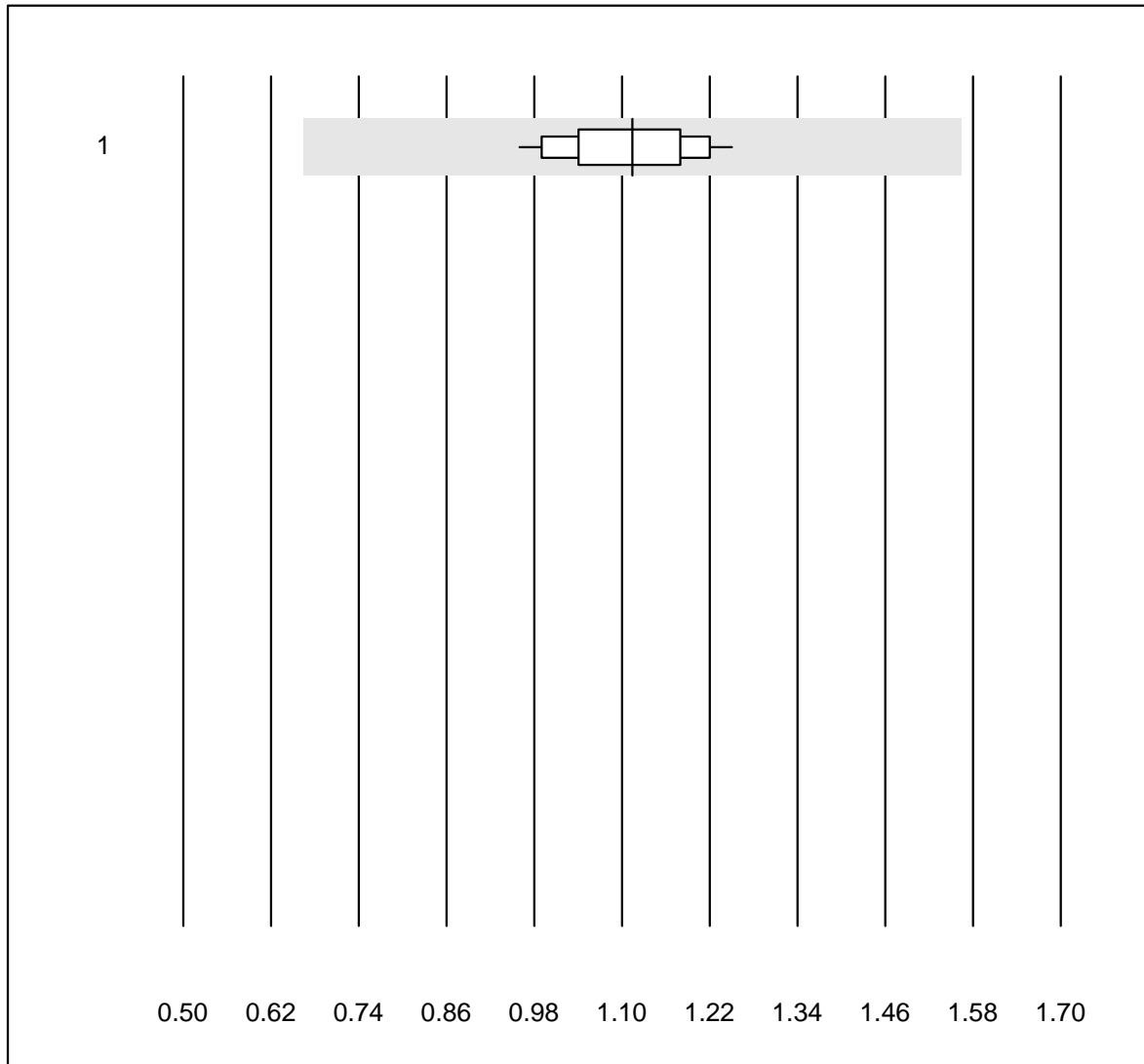


QUALAB tolerance : 30 %
(< 1.50: +/- 0.45 kU/L)

IgE birch qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	12	100.0	0.0	0.0	0.12	93.7	e*

IgE cat qn

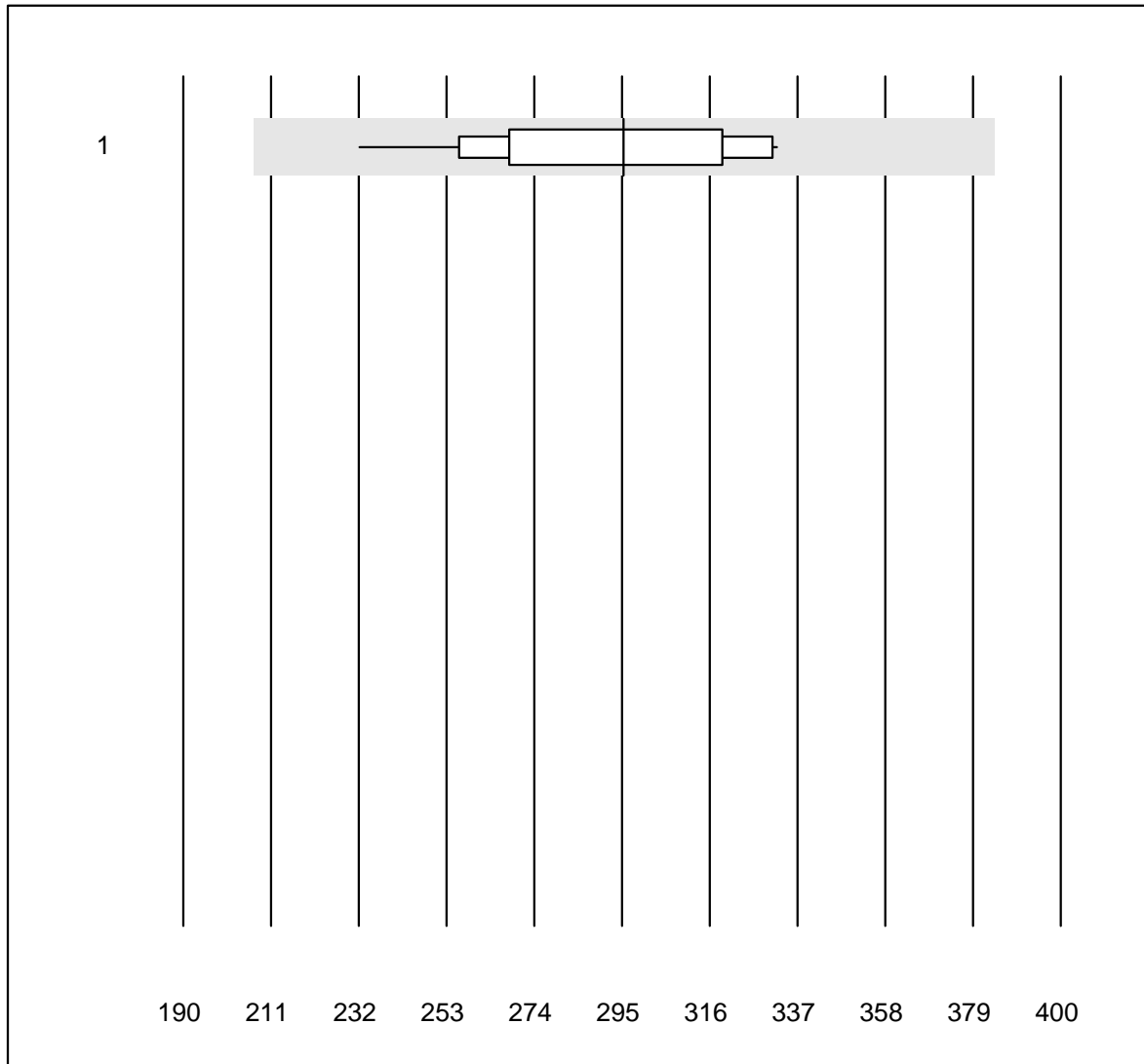


QUALAB tolerance : 30 %
(< 1.50: +/- 0.45 kU/L)

IgE cat qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	12	100.0	0.0	0.0	1.11	8.0	e

IgE total

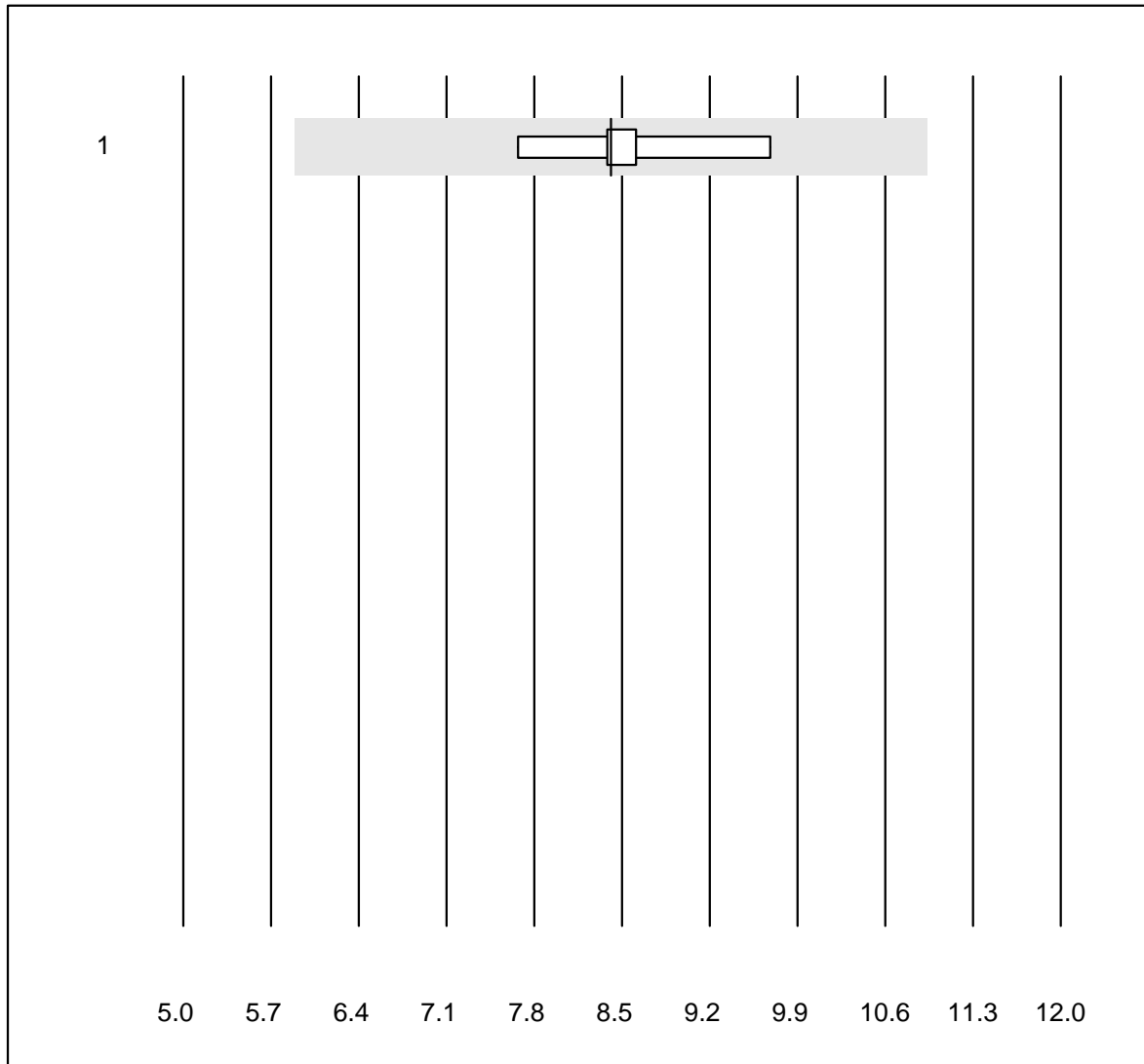


QUALAB tolerance : 30 %

IgE total (kU/L)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	12	100.0	0.0	0.0	295	11.0	e

IgE sx1 qn

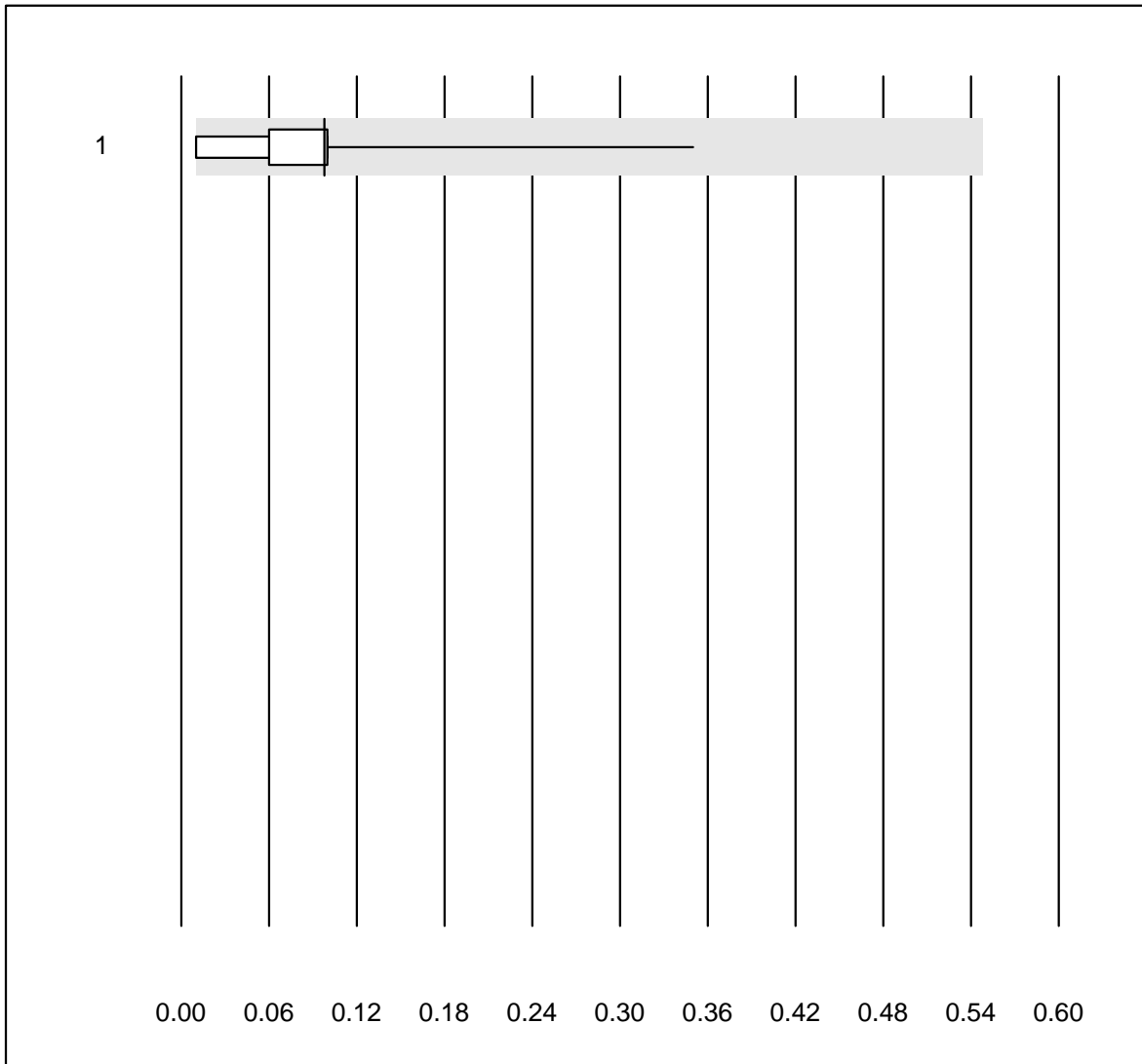


QUALAB tolerance : 30 %

IgE sx1 qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	9	100.0	0.0	0.0	8.41	6.6	e

IgE fx5 qn

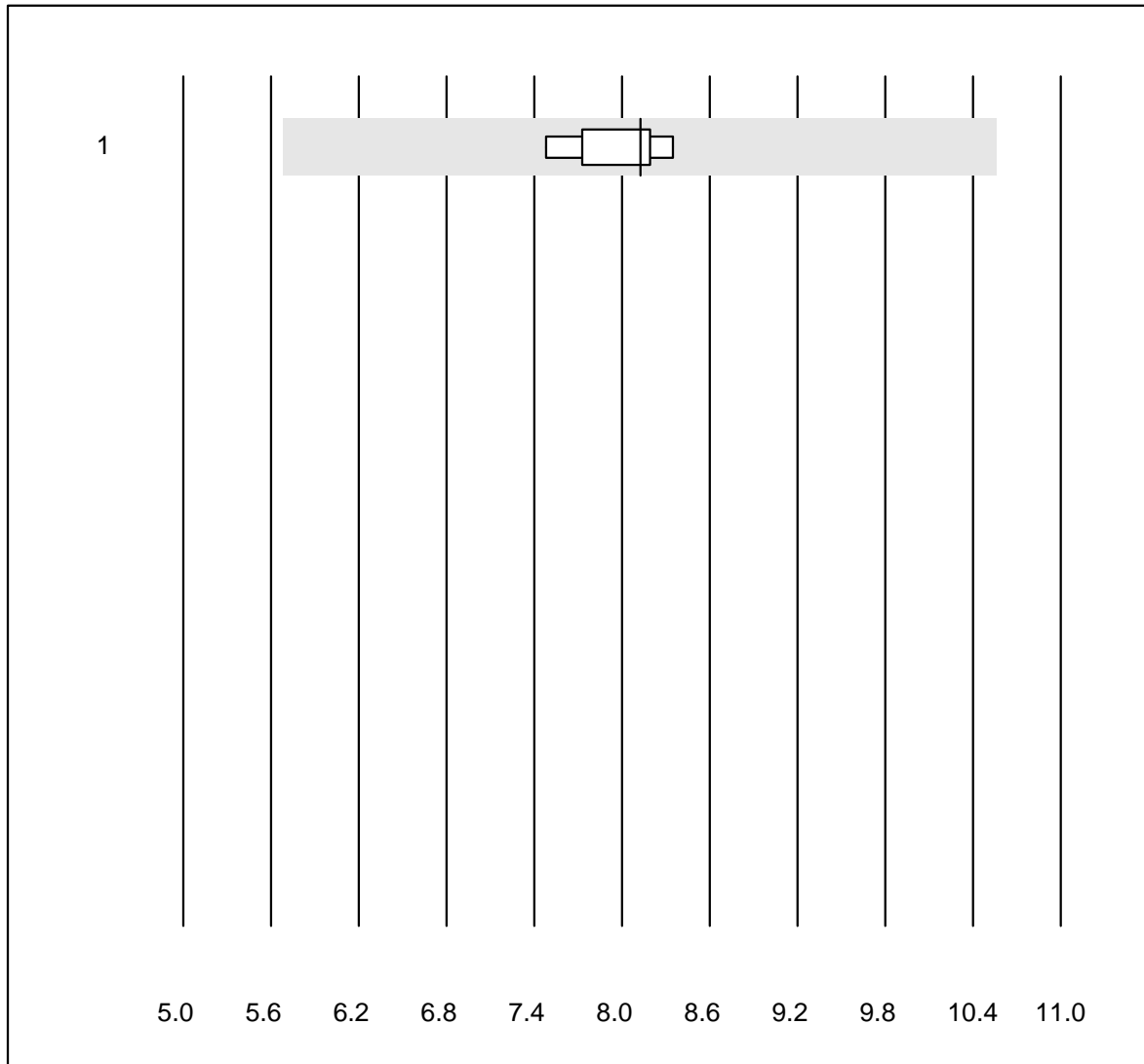


QUALAB tolerance : 30 %
 (< 1.50: +/- 0.45 kU/L)

IgE fx5 qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	10	100.0	0.0	0.0	0.10	95.9	e*

IgE rx1qn

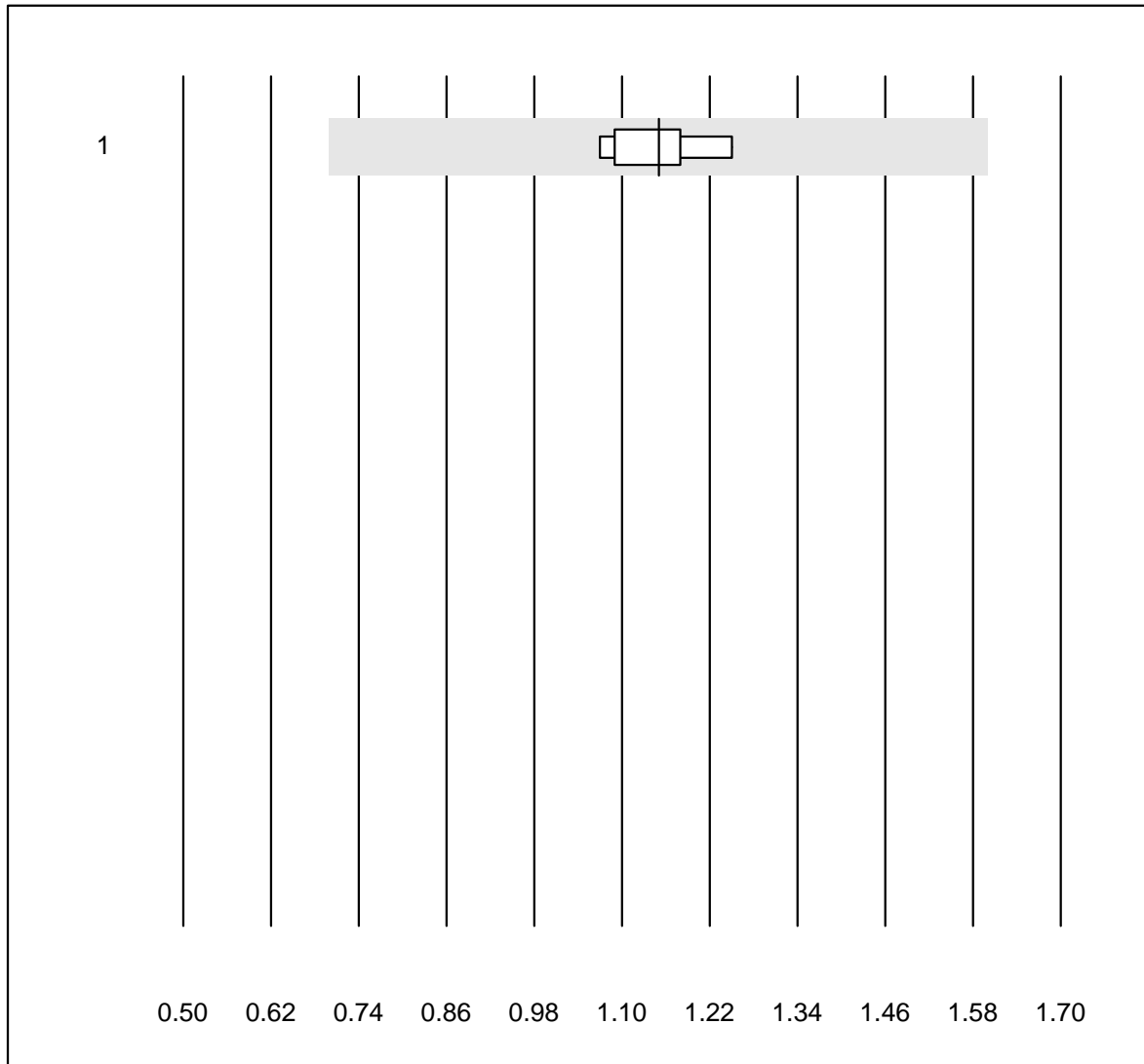


QUALAB tolerance : 30 %

IgE rx1qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	8	100.0	0.0	0.0	8.13	3.6	e

IgE rx2 qn

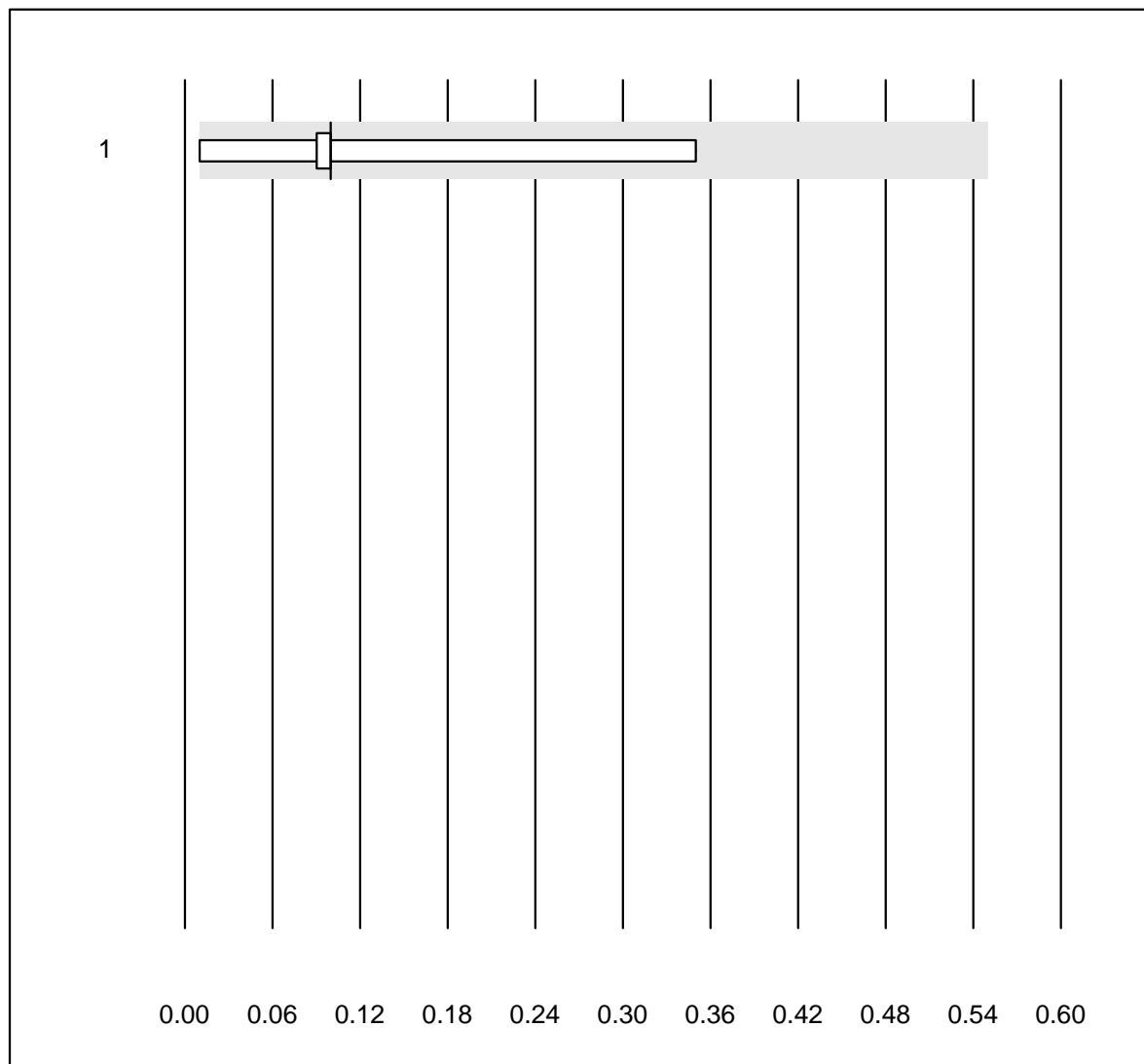


QUALAB tolerance : 30 %
 (< 1.50: +/- 0.45 kU/L)

IgE rx2 qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	8	100.0	0.0	0.0	1.15	5.1	e

IgE D. pteronyssinus qn

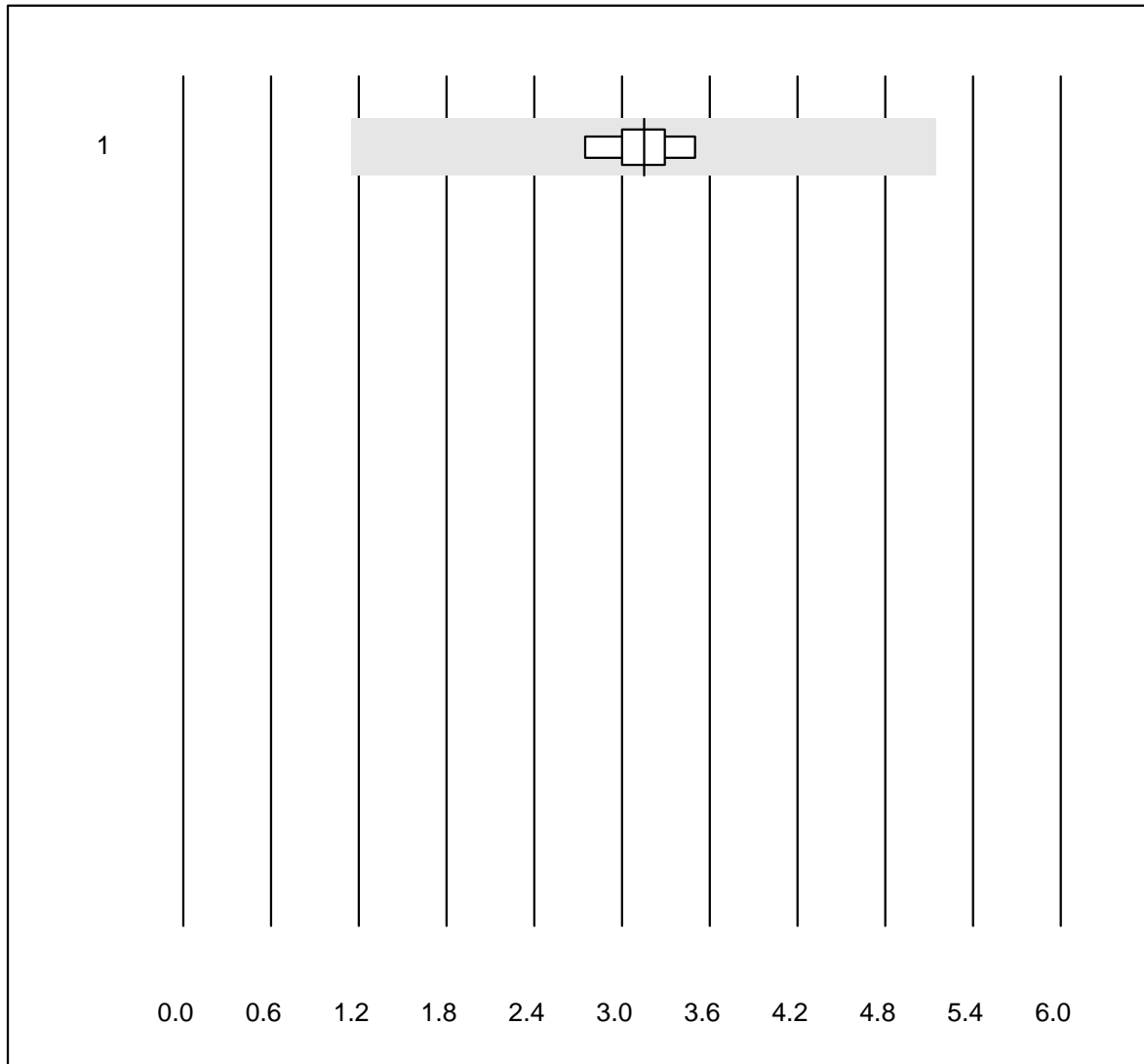


QUALAB tolerance : 30 %
(< 2: +/- 0 kU/L)

IgE D. pteronyssinus qn (kU/L)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	9	100.0	0.0	0.0	0	87.9	e*

CRP HS



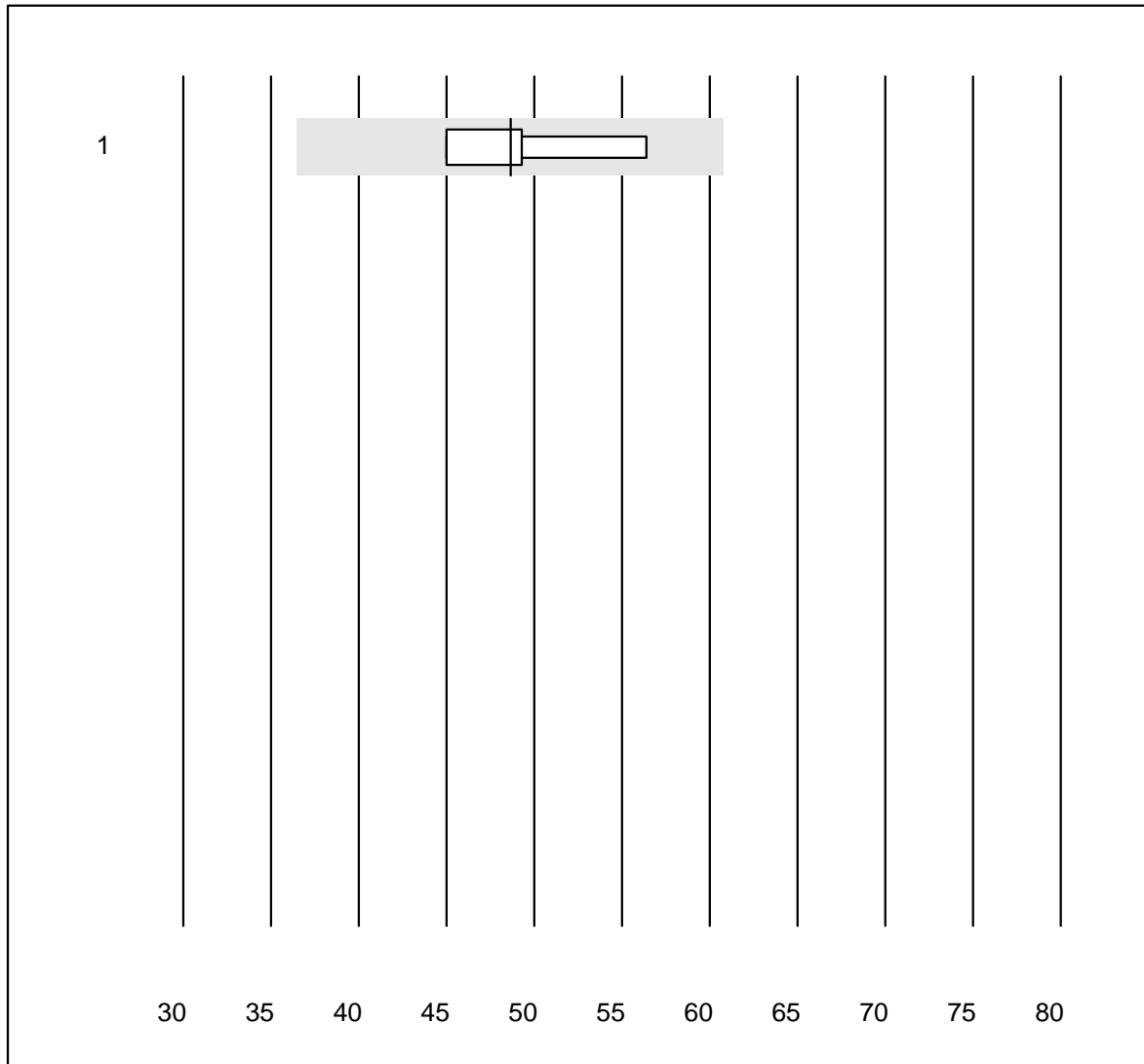
QUALAB tolerance : 21 %
 (< 10.00: +/- 2.00 mg/l)

CRP HS (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Turbidimetry	8	100.0	0.0	0.0	3.15	7.7	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Lipoprotein (a)



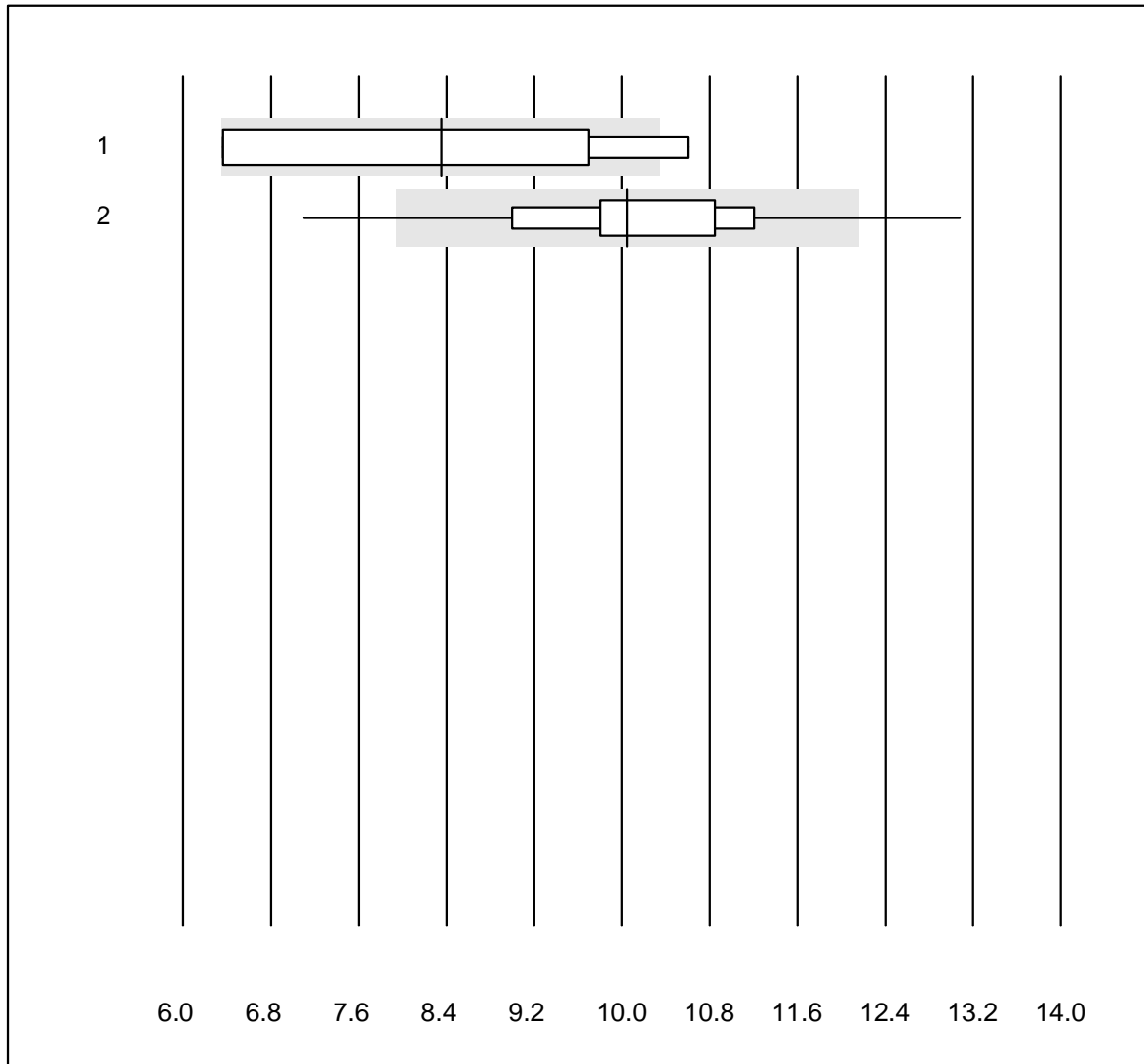
MQ tolerance : 25 %

Lipoprotein (a) (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	4	100.0	0.0	0.0	49	9.7	e*

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

CRP

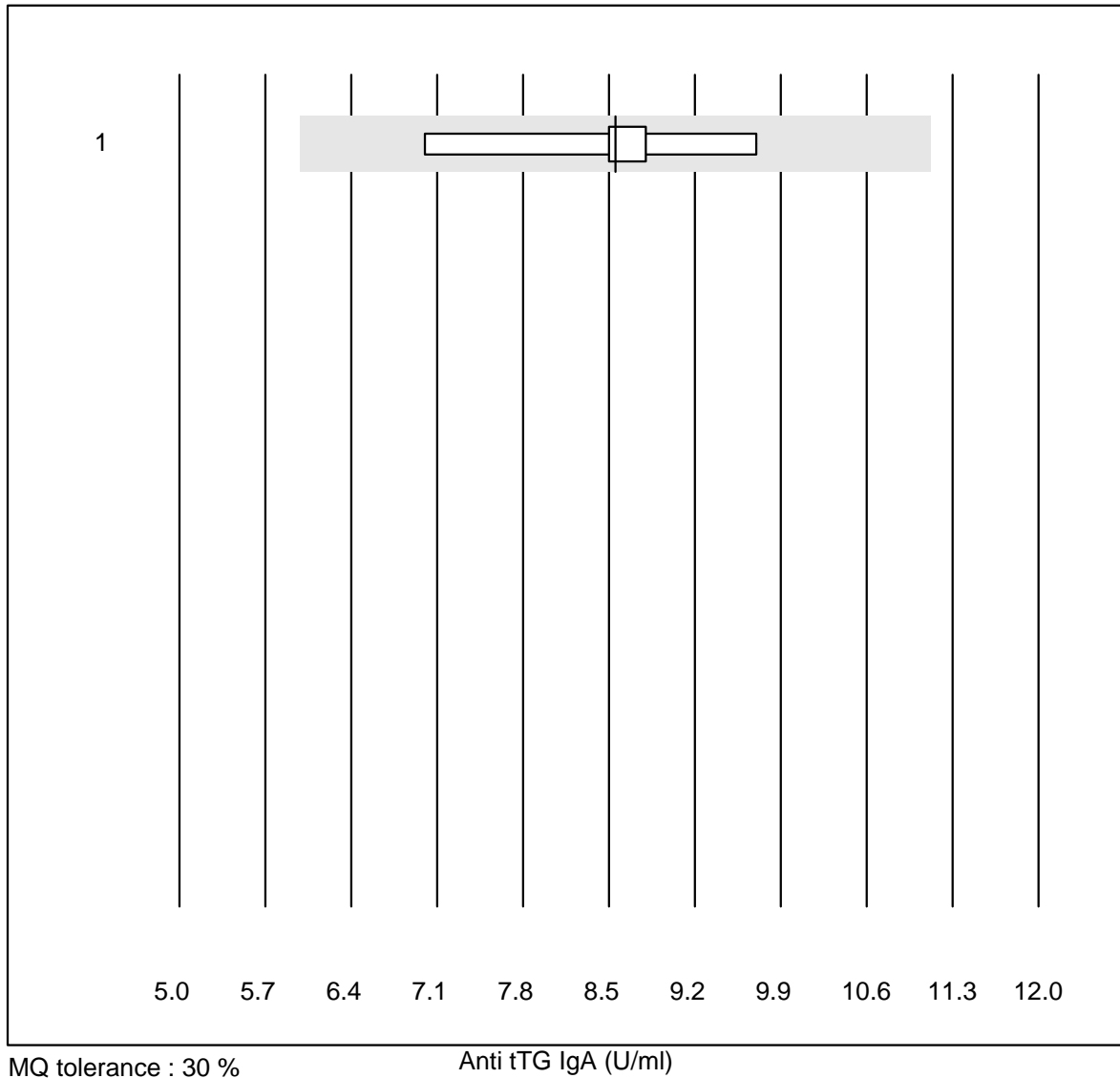


QUALAB tolerance : 21 %
 (< 10.0: +/- 2.0 mg/l)

CRP (mg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Imuchem / Simplex	4	75.0	25.0	0.0	8.4	24.4	e*
2 AFIAS	133	93.2	4.5	2.3	10.1	9.4	e

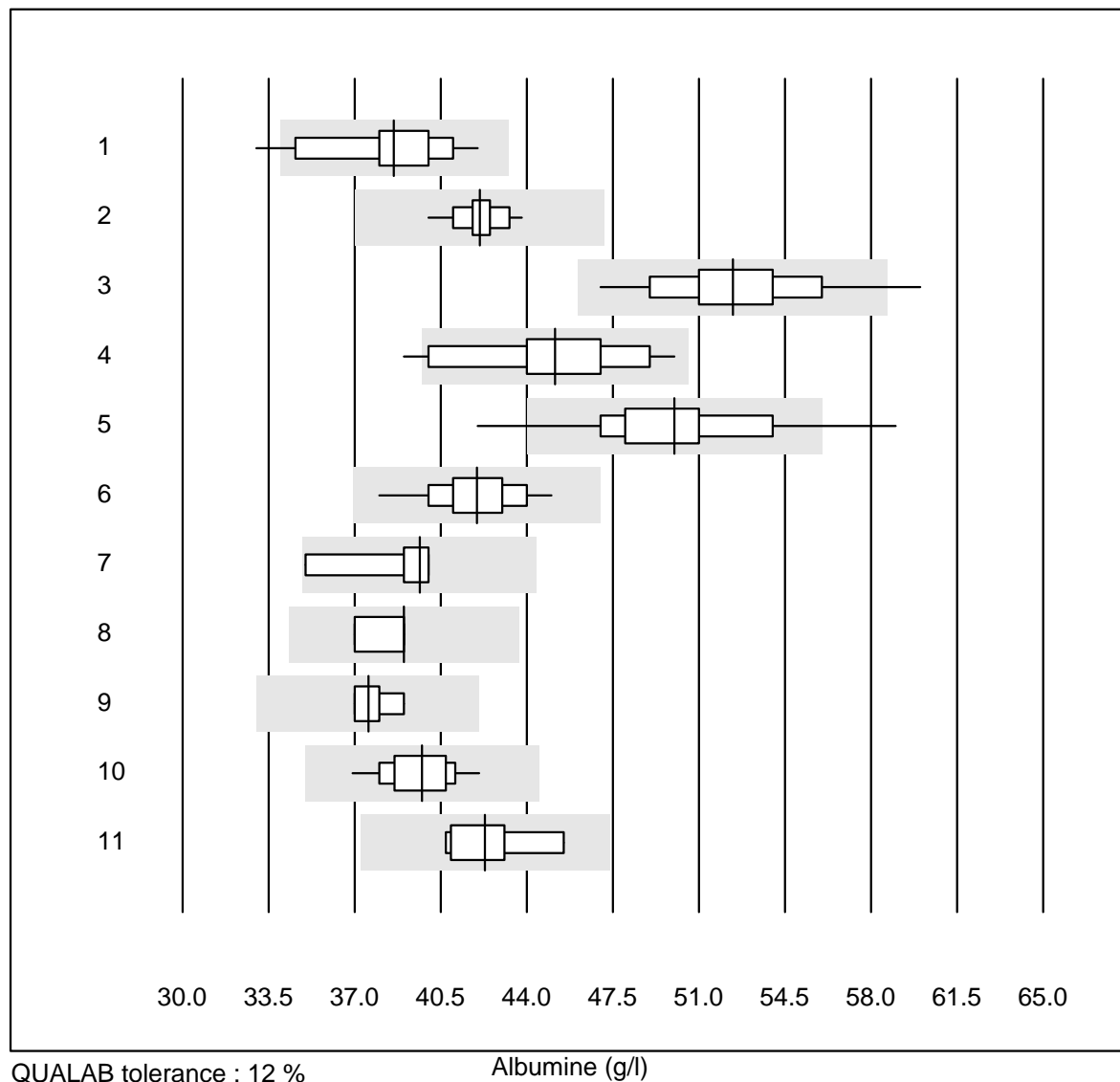
Anti tTG IgA



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Other methods	6	100.0	0.0	0.0	8.55	10.2	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

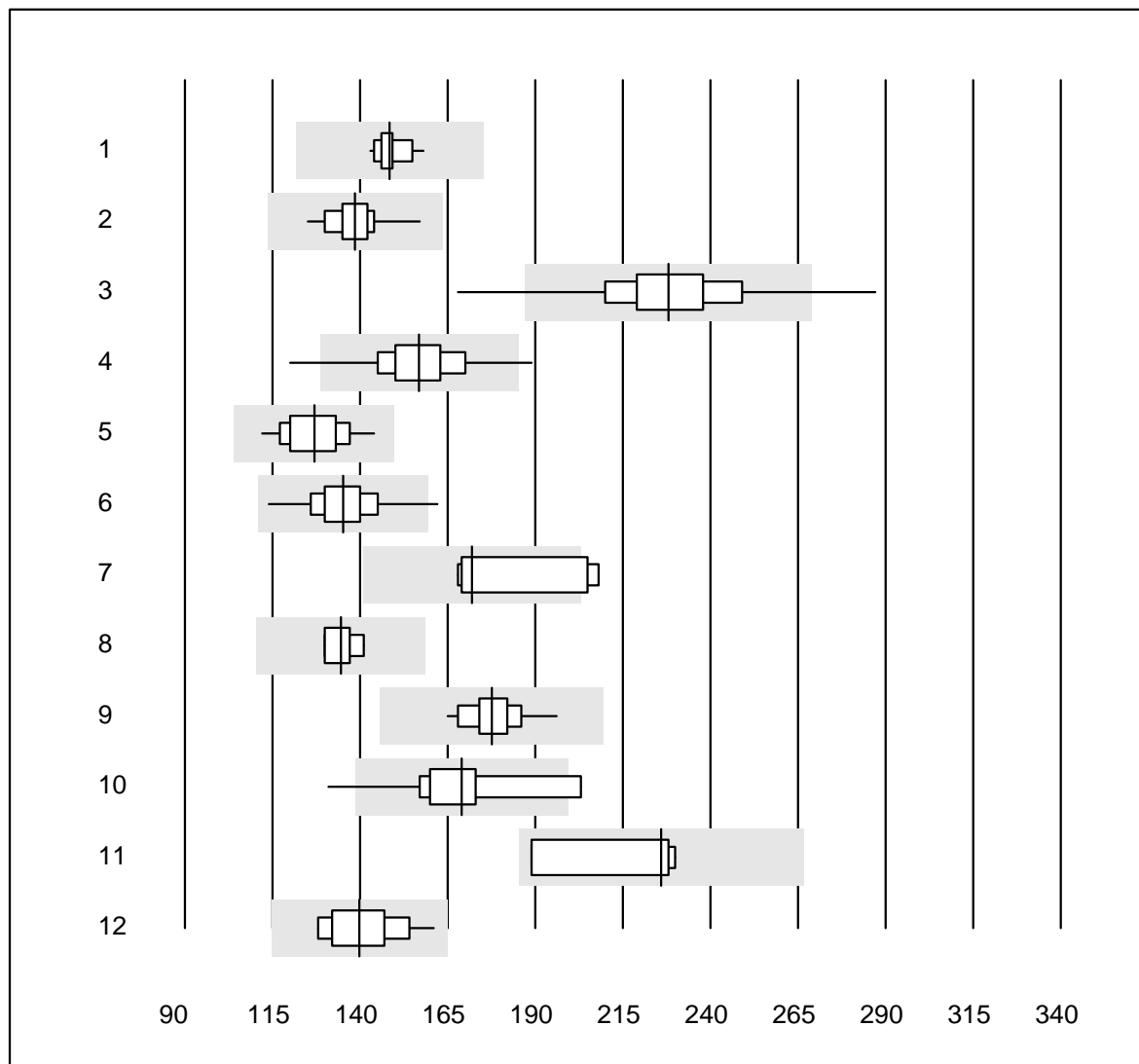
Albumine



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	15	93.3	6.7	0.0	39	6.5	e*
2	Cobas	25	100.0	0.0	0.0	42	2.1	e
3	Fuji Dri-Chem	247	98.8	0.4	0.8	52	4.3	e
4	Spotchem SP-4430	28	96.4	3.6	0.0	45	6.2	e
5	Spotchem D-Concept	188	94.1	4.8	1.1	50	5.5	e
6	Piccolo	65	98.5	0.0	1.5	42	4.0	e
7	Beckmann	6	100.0	0.0	0.0	40	5.0	e*
8	Skyla	4	100.0	0.0	0.0	39	2.6	e
9	Dimension	4	100.0	0.0	0.0	38	2.5	e
10	Selectra Pro	11	100.0	0.0	0.0	40	3.7	e
11	Autolyser/DiaSys	8	100.0	0.0	0.0	42	3.8	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Alkaline phosphatase



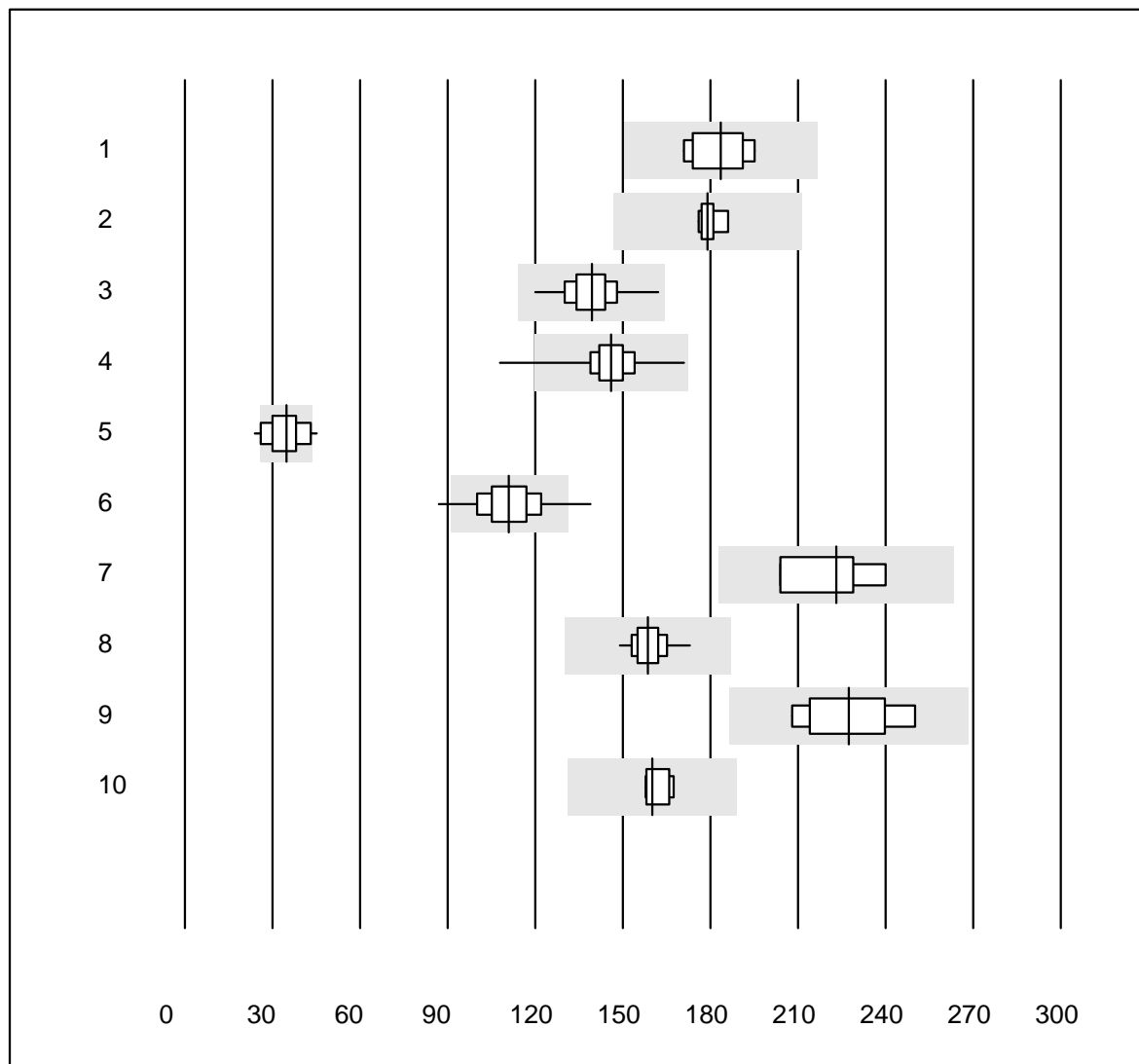
QUALAB tolerance : 18 %

Alkaline phosphatase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	IFCC	13	100.0	0.0	0.0	148	3.1	e
2	Cobas	26	100.0	0.0	0.0	139	4.7	e
3	Reflotron	223	94.6	2.7	2.7	228	7.5	e
4	Fuji Dri-Chem	948	98.6	0.6	0.8	157	6.4	e
5	Spotchem SP-4430	62	100.0	0.0	0.0	127	6.3	e
6	Spotchem D-Concept	418	99.1	0.2	0.7	135	5.6	e
7	Beckman	7	71.4	28.6	0.0	172	9.6	e*
8	Dimension	4	100.0	0.0	0.0	135	3.7	e
9	Piccolo	54	100.0	0.0	0.0	178	3.8	e
10	Selectra Pro	15	80.0	20.0	0.0	169	10.4	e*
11	Skylla	5	80.0	0.0	20.0	226	9.0	e*
12	Autolyser/DiaSys	20	100.0	0.0	0.0	140	6.9	e

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

Amylase



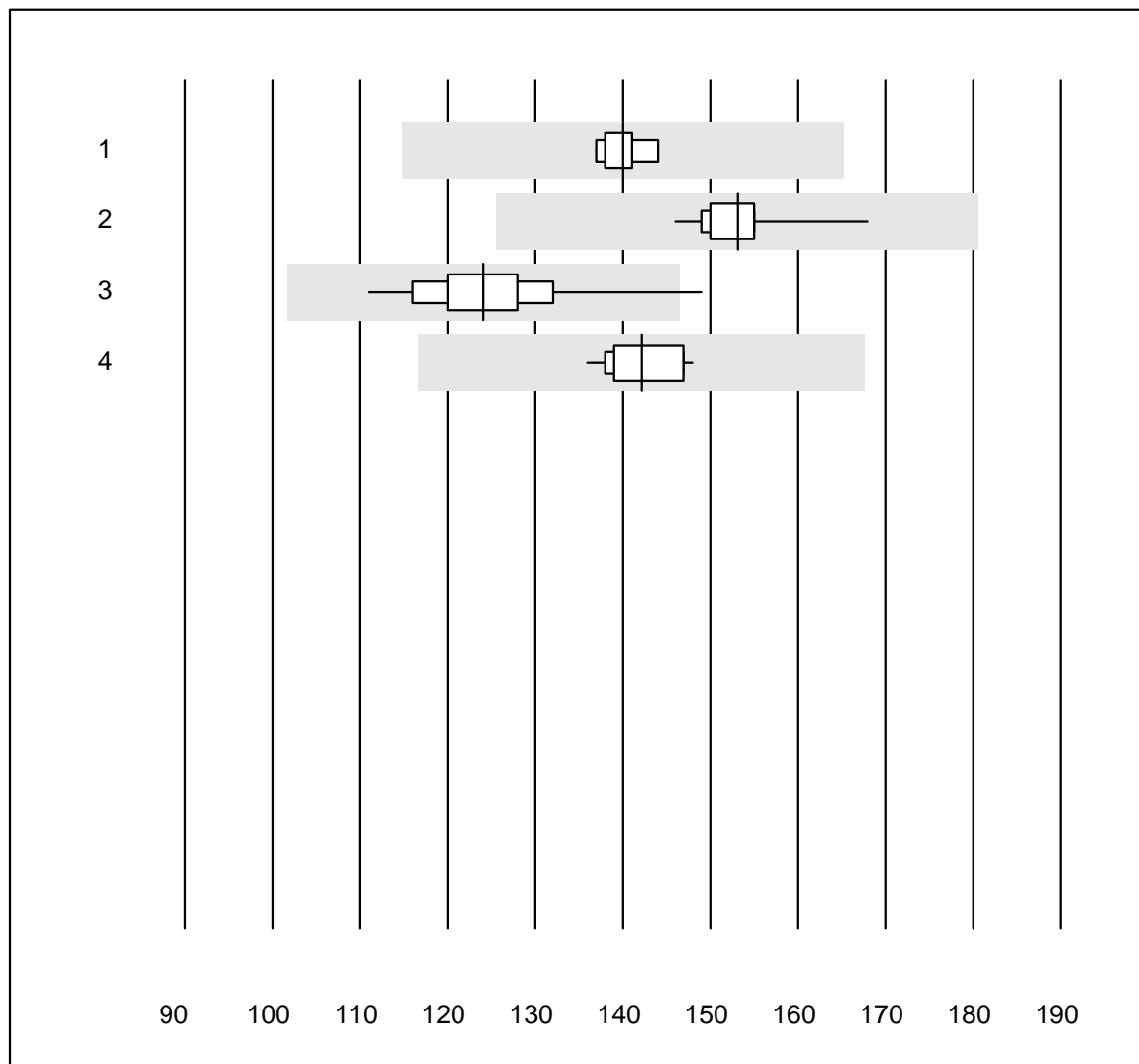
QUALAB tolerance : 18 %
(< 50: +/- 9 U/l)

Amylase (U/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 IFCC	8	100.0	0.0	0.0	184	4.8	e
2 Cobas	9	100.0	0.0	0.0	179	1.8	e
3 Reflotron	61	100.0	0.0	0.0	139	5.4	e
4 Fuji Dri-Chem	691	99.2	0.4	0.4	146	4.5	e
5 Spotchem SP-4430	42	52.4	7.1	40.5	35	17.0	e*
6 Spotchem D-Concept	317	98.5	0.9	0.6	111	7.6	e
7 Architect	4	100.0	0.0	0.0	223	7.0	e*
8 Piccolo	59	100.0	0.0	0.0	159	3.0	e
9 Selectra Pro	8	87.5	0.0	12.5	228	6.4	e*
10 Autolyser/DiaSys	7	100.0	0.0	0.0	160	2.5	e

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

Pancreatic amylase



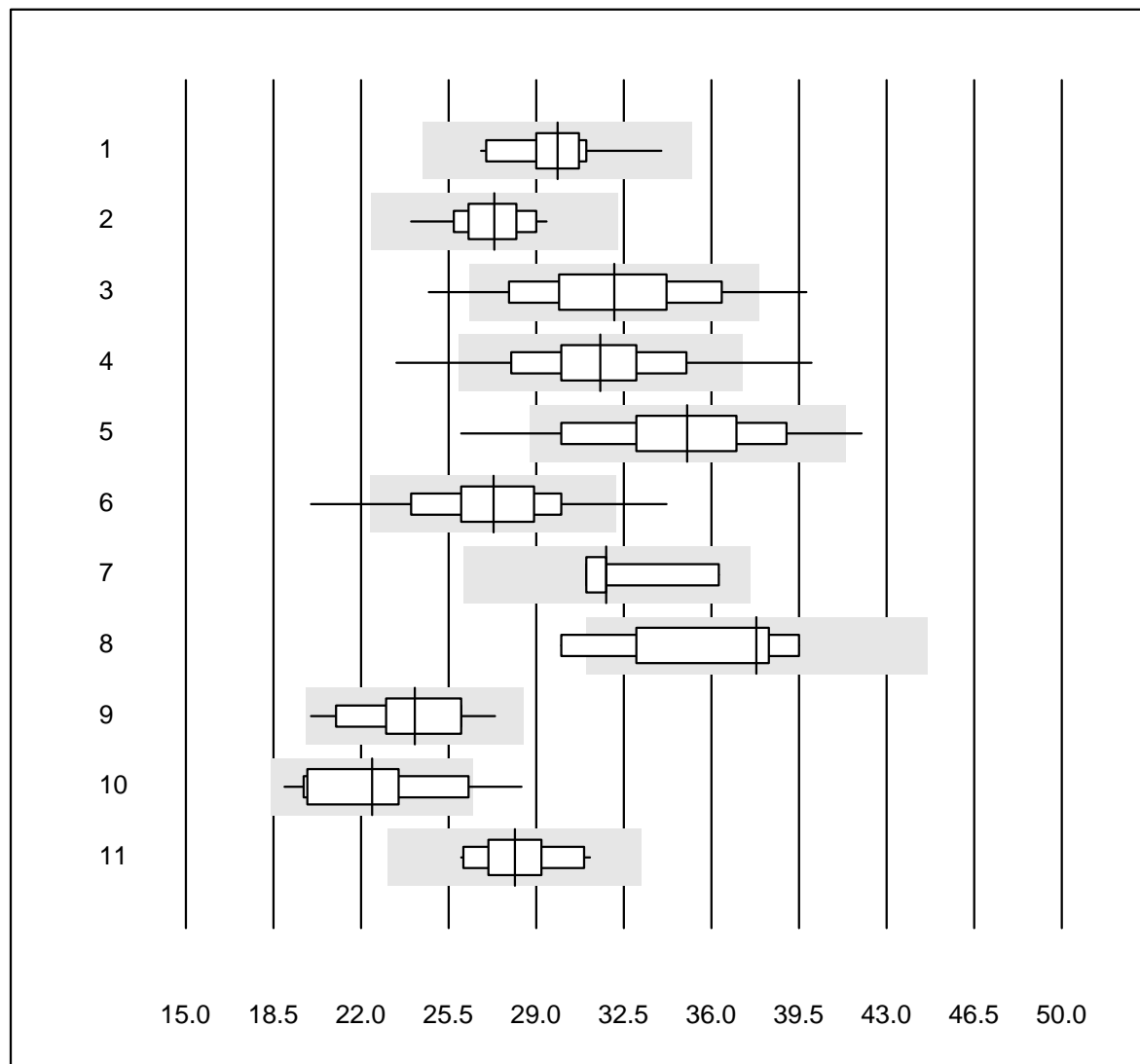
QUALAB tolerance : 18 %

Pancreatic amylase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	IFCC	11	100.0	0.0	0.0	140	1.7	e
2	Cobas	12	100.0	0.0	0.0	153	3.5	e
3	Reflotron	166	98.2	1.2	0.6	124	5.3	e
4	Autolyser/DiaSys	11	100.0	0.0	0.0	142	2.8	e

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

Bilirubin

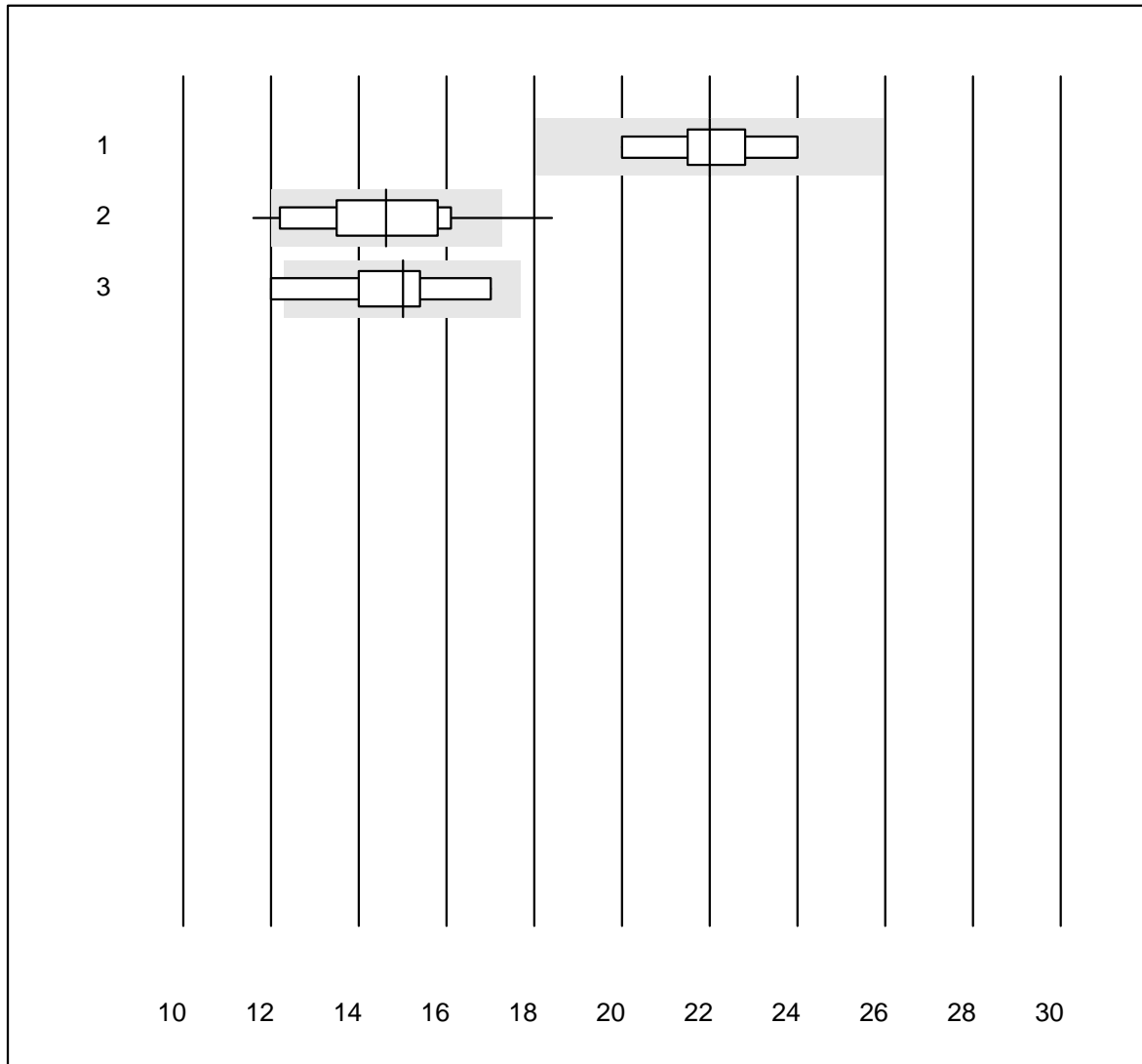


QUALAB tolerance : 18 %

Bilirubin (µmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	16	100.0	0.0	0.0	29.9	5.6	e
2	Cobas	25	100.0	0.0	0.0	27.3	4.9	e
3	Reflotron	181	86.2	8.3	5.5	32.1	10.1	e
4	Fuji Dri-Chem	769	95.5	2.5	2.0	31.6	8.5	e
5	Spotchem SP-4430	54	79.6	5.6	14.8	35.0	10.0	e
6	Spotchem D-Concept	331	93.4	5.1	1.5	27.3	8.4	e
7	Dimension	4	100.0	0.0	0.0	31.8	7.4	e*
8	Beckman	7	85.7	14.3	0.0	37.8	9.5	e*
9	Piccolo	66	93.9	0.0	6.1	24.1	8.1	e
10	Selectra Pro	15	73.3	6.7	20.0	22.4	12.7	e*
11	Autolyser/DiaSys	17	100.0	0.0	0.0	28.2	5.6	e

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

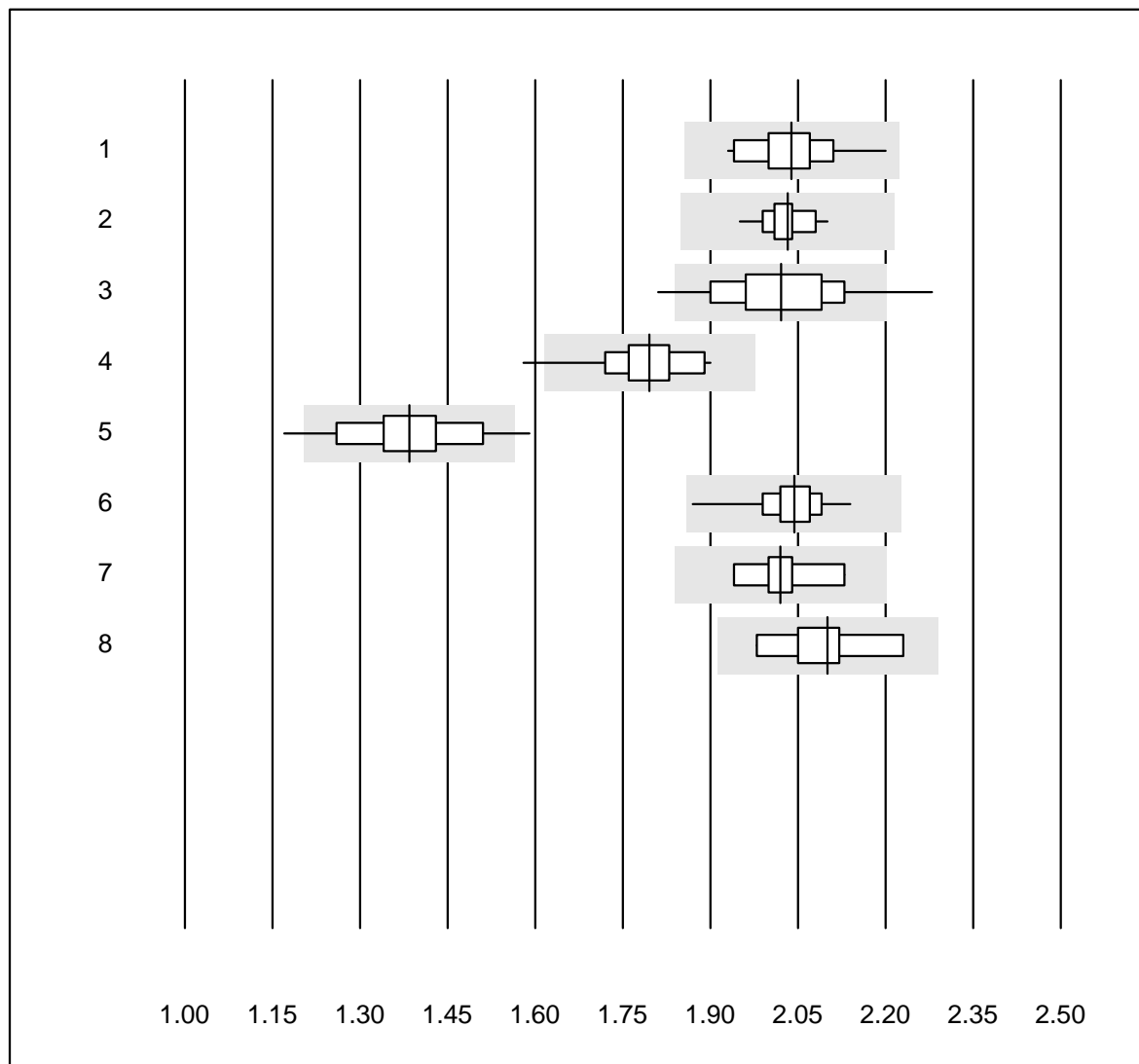
Bilirubin direct

MQ tolerance : 18 %

Bilirubin direct (µmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Autolyser/DiaSys	9	100.0	0.0	0.0	22.0	6.1	e
2	Fuji Dri-Chem	28	71.4	10.7	17.9	14.6	10.8	e
3	Piccolo	5	80.0	20.0	0.0	15.0	12.6	e*

Calcium



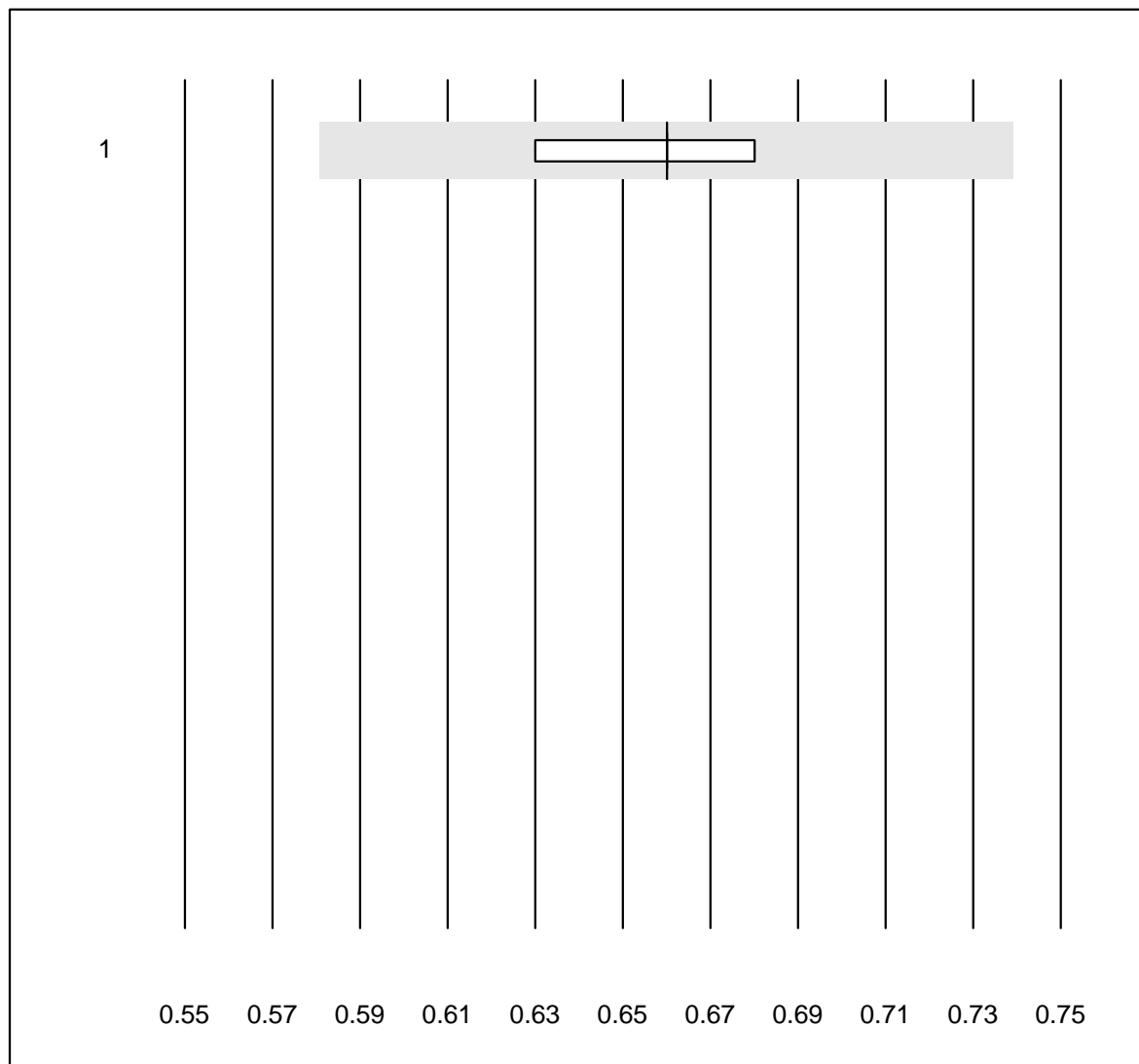
QUALAB tolerance : 9 %
 (< 2.00: +/- 0.18 mmol/l)

Calcium (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	26	100.0	0.0	0.0	2.04	3.2	e
2	Cobas	25	100.0	0.0	0.0	2.03	1.7	e
3	Fuji Dri-Chem	339	96.1	2.7	1.2	2.02	4.3	e
4	Spotchem SP-4430	12	91.7	8.3	0.0	1.80	4.8	e*
5	Spotchem D-Concept	77	93.5	3.9	2.6	1.38	6.1	e
6	Piccolo	56	98.2	0.0	1.8	2.04	2.2	e
7	Selectra Pro	7	85.7	0.0	14.3	2.02	3.1	e*
8	Autolyser/DiaSys	9	100.0	0.0	0.0	2.10	3.7	e*

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

Calcium ISE



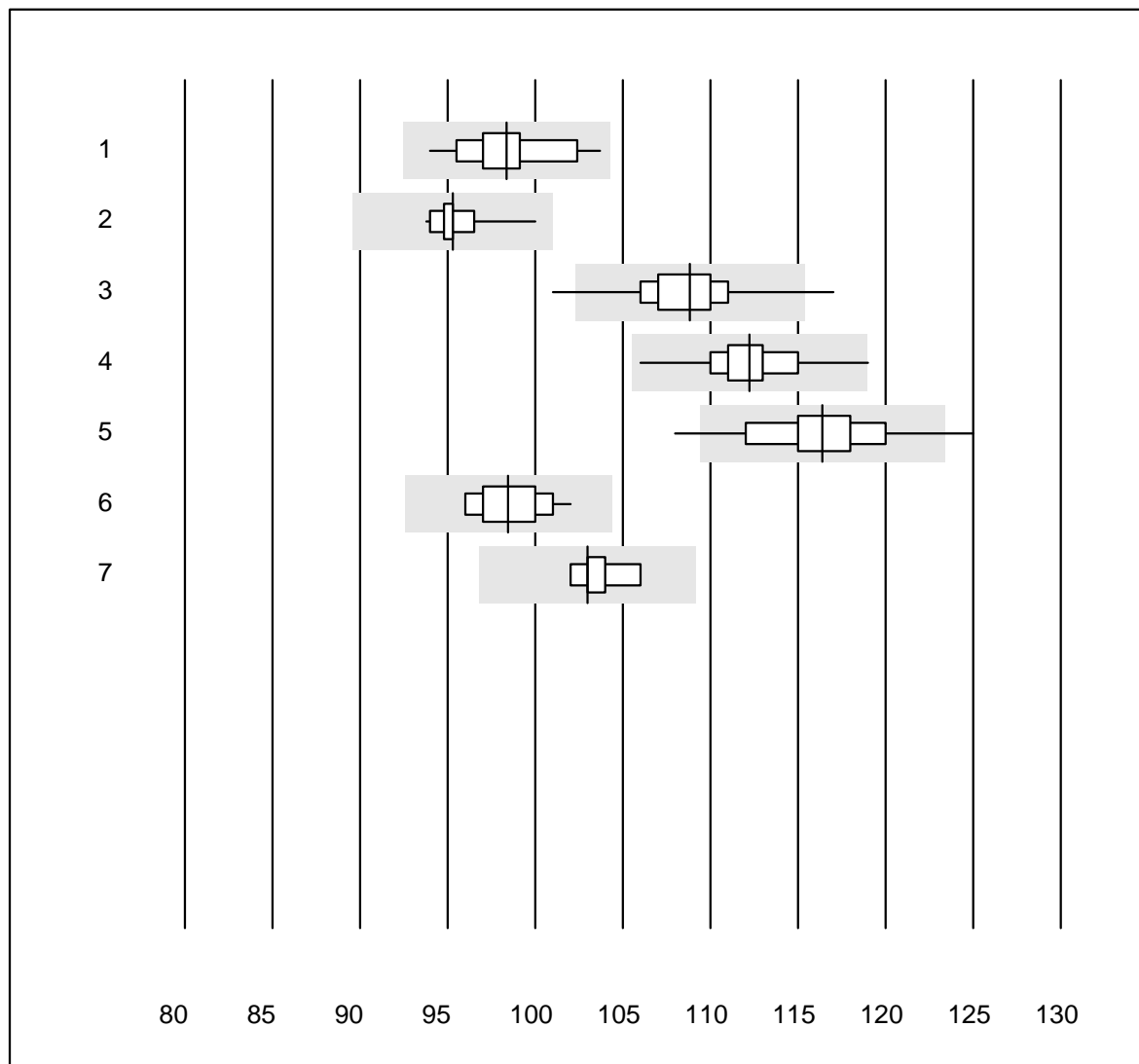
MQ tolerance : 12 %

Calcium ISE (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	iStat Chem8	5	100.0	0.0	0.0	0.66	2.7	e

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

Chloride



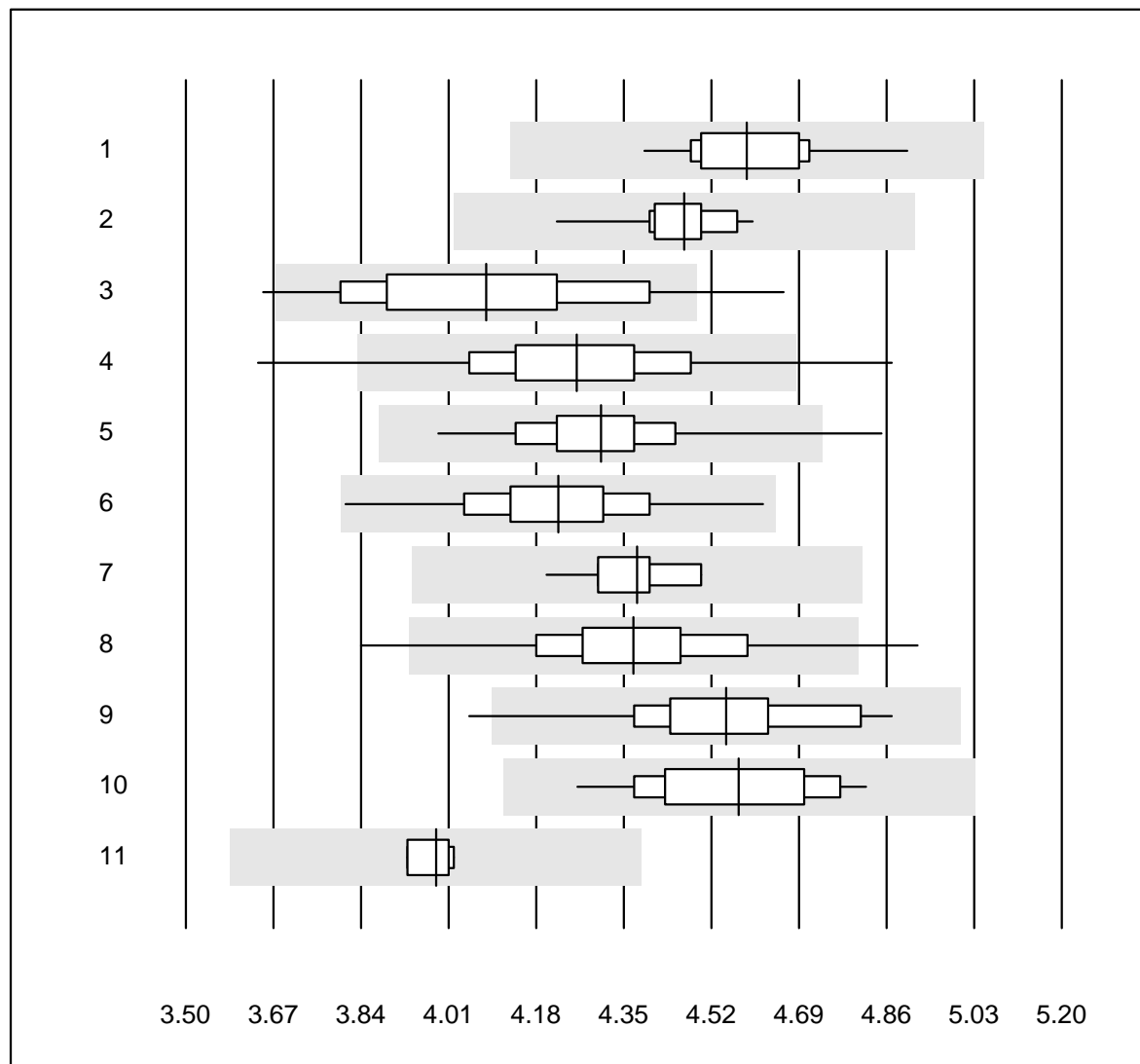
QUALAB tolerance : 6 %

Chloride (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ISE	30	96.7	0.0	3.3	98	2.4	e
2	Cobas	16	93.7	0.0	6.3	95	1.5	e
3	Fuji Dri-Chem	865	97.0	1.3	1.7	109	2.0	e
4	Spotchem D-Concept	361	98.3	0.3	1.4	112	1.7	e
5	Spotchem EL-SE 1520	65	86.1	6.2	7.7	116	2.9	e
6	Piccolo	26	100.0	0.0	0.0	98	1.7	e
7	iStat Chem8	5	100.0	0.0	0.0	103	1.5	e

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

Cholesterol total



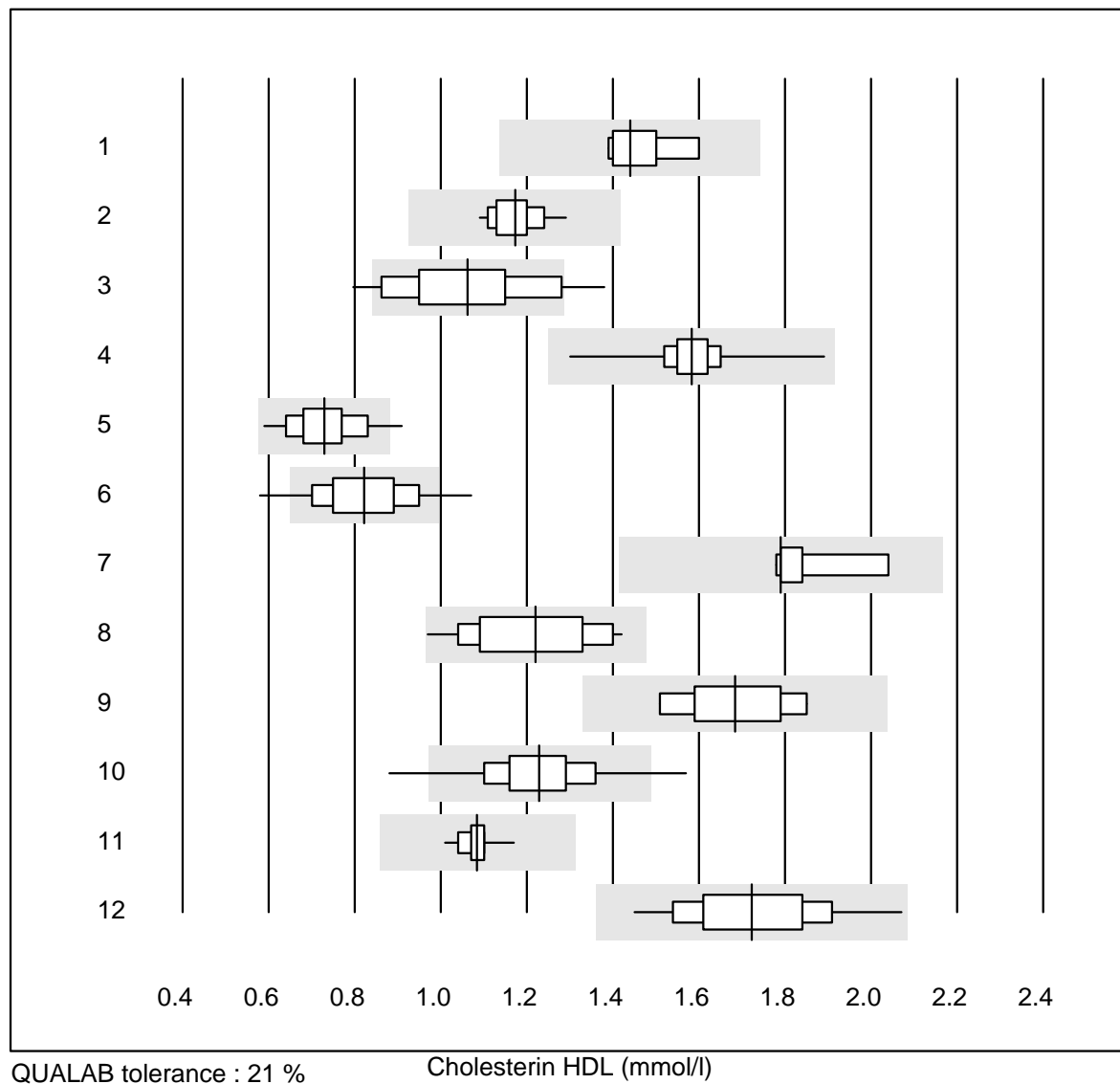
QUALAB tolerance : 10 %

Cholesterol total (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	25	100.0	0.0	0.0	4.59	2.6	e
2	Cobas	23	100.0	0.0	0.0	4.47	1.8	e
3	Reflotron	119	91.6	5.9	2.5	4.08	5.5	e
4	Fuji Dri-Chem	913	97.6	0.9	1.5	4.26	3.9	e
5	Spotchem SP-4430	75	98.7	1.3	0.0	4.31	3.3	e
6	Spotchem D-Concept	404	98.0	0.0	2.0	4.22	3.3	e
7	Piccolo	32	96.9	0.0	3.1	4.38	1.8	e
8	Cholestech LDX	306	96.8	1.6	1.6	4.37	3.8	e
9	Selectra Pro	12	91.7	8.3	0.0	4.55	4.7	e*
10	Autolyser/DiaSys	20	100.0	0.0	0.0	4.57	3.5	e
11	Other methods	4	100.0	0.0	0.0	3.99	1.1	e

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

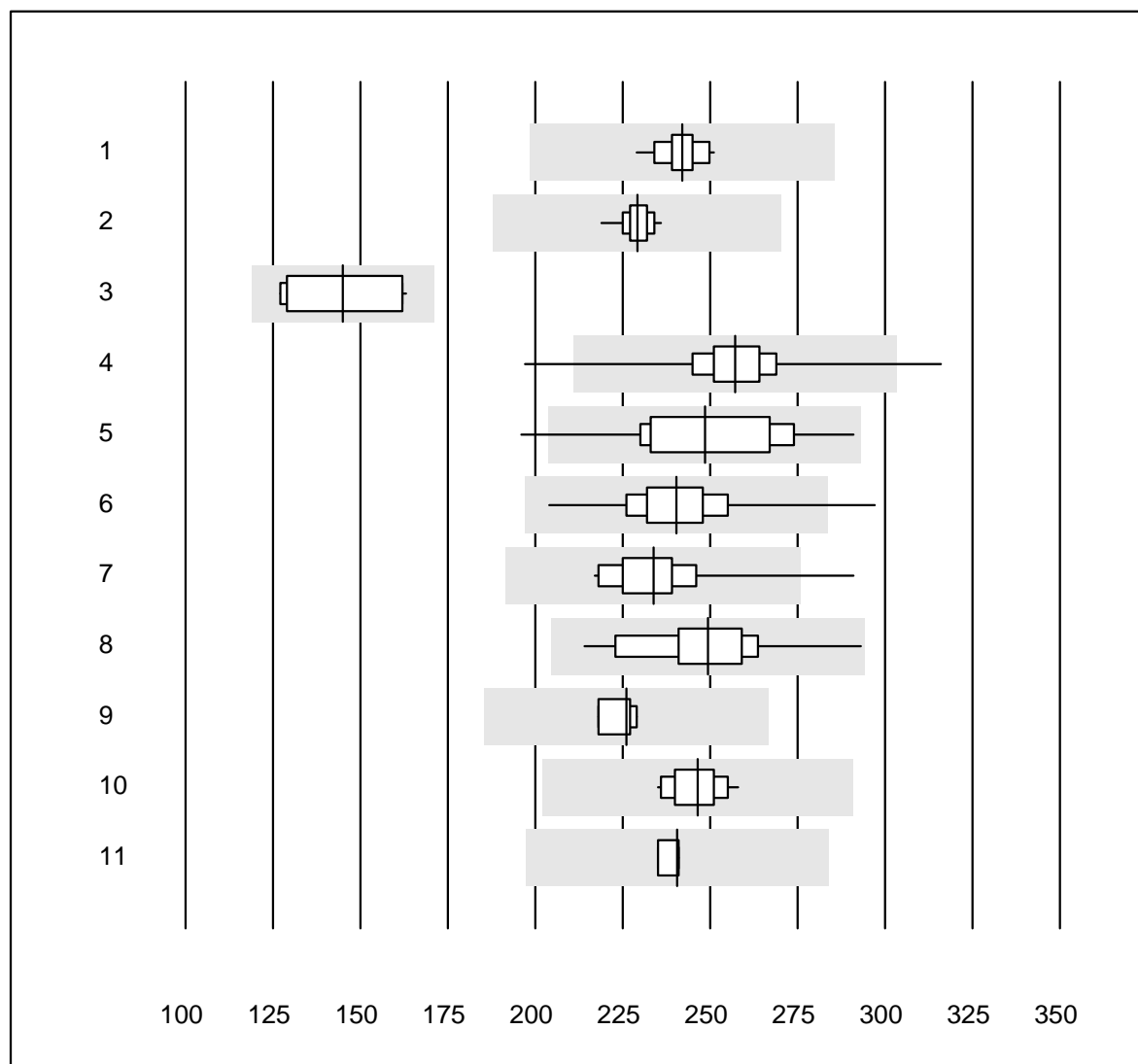
Cholesterin HDL



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Wet chemistry, direc	6	83.3	0.0	16.7	1.44	5.8	e
2	Cobas	21	100.0	0.0	0.0	1.17	4.8	e
3	Reflotron	63	73.0	11.1	15.9	1.06	14.0	e
4	Fuji Dri-Chem	880	99.2	0.0	0.8	1.58	3.3	e
5	Spotchem SP-4430	68	97.1	2.9	0.0	0.73	9.9	e
6	Spotchem D-Concept	389	92.3	4.9	2.8	0.82	11.6	e
7	Dimension	5	100.0	0.0	0.0	1.79	5.9	e*
8	Piccolo	30	80.0	0.0	20.0	1.22	10.9	e
9	Pentra/Selectra	10	80.0	0.0	20.0	1.68	7.2	e
10	Cholestech LDX	306	94.8	2.9	2.3	1.23	8.6	e
11	Architect	13	100.0	0.0	0.0	1.08	3.5	e
12	Autolyser/DiaSys	20	95.0	0.0	5.0	1.72	8.9	e

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

Creatine kinase



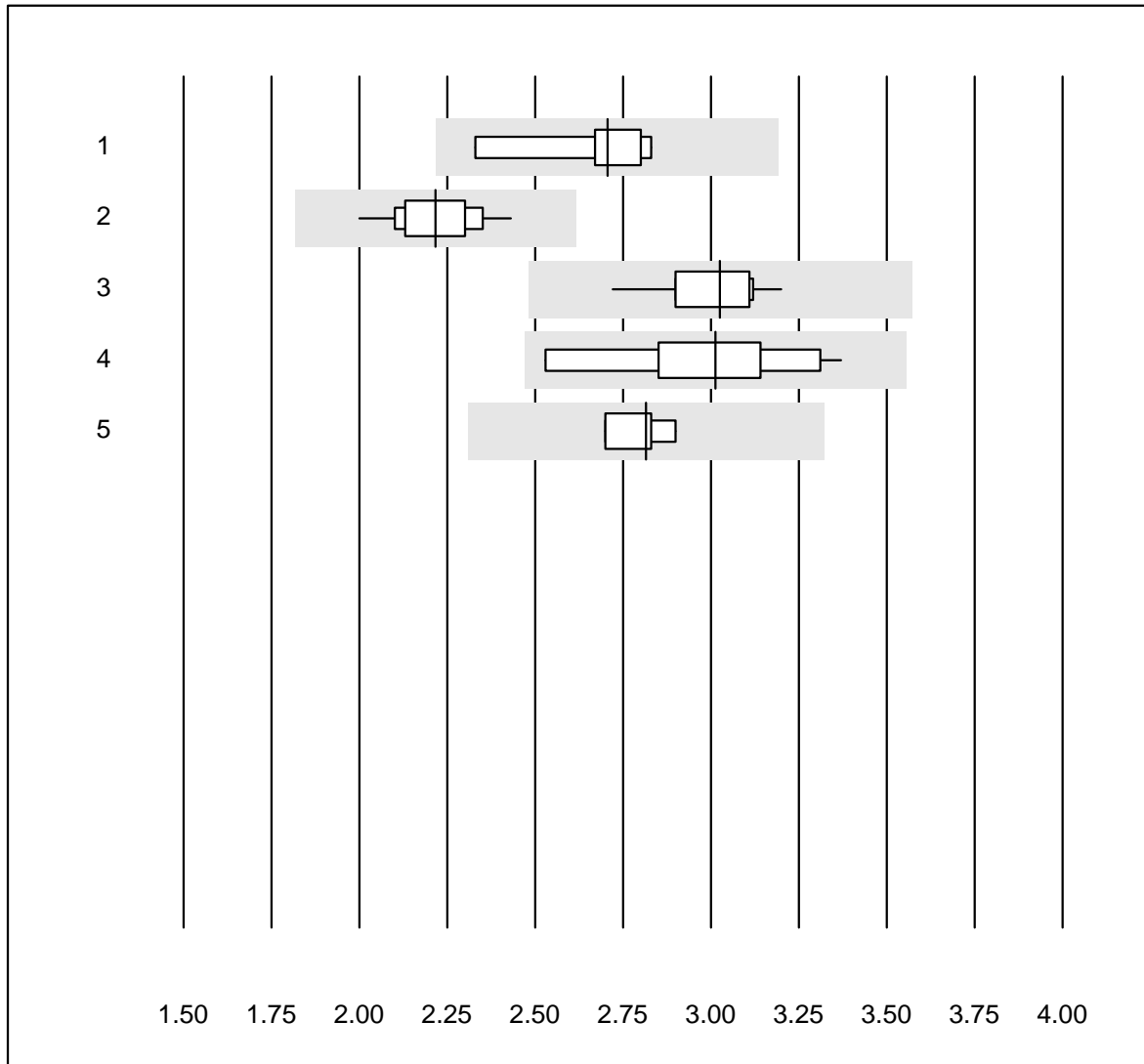
QUALAB tolerance : 18 %

Creatine kinase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	IFCC	19	100.0	0.0	0.0	242	2.3	e
2	Cobas	23	95.7	0.0	4.3	229	1.8	e
3	Reflotron	11	90.9	0.0	9.1	145	9.7	e*
4	Fuji Dri-Chem	623	97.4	1.0	1.6	257	4.8	e
5	Spotchem SP-4430	35	88.5	2.9	8.6	248	8.2	e
6	Spotchem D-Concept	250	99.2	0.8	0.0	240	5.3	e
7	Piccolo	26	96.2	3.8	0.0	234	6.4	e
8	Selectra Pro	11	100.0	0.0	0.0	249	8.3	e*
9	Dimension	4	100.0	0.0	0.0	226	2.1	e
10	Autolyser/DiaSys	17	100.0	0.0	0.0	246	2.8	e
11	Other methods	4	100.0	0.0	0.0	241	1.2	e

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

Cholesterol LDL



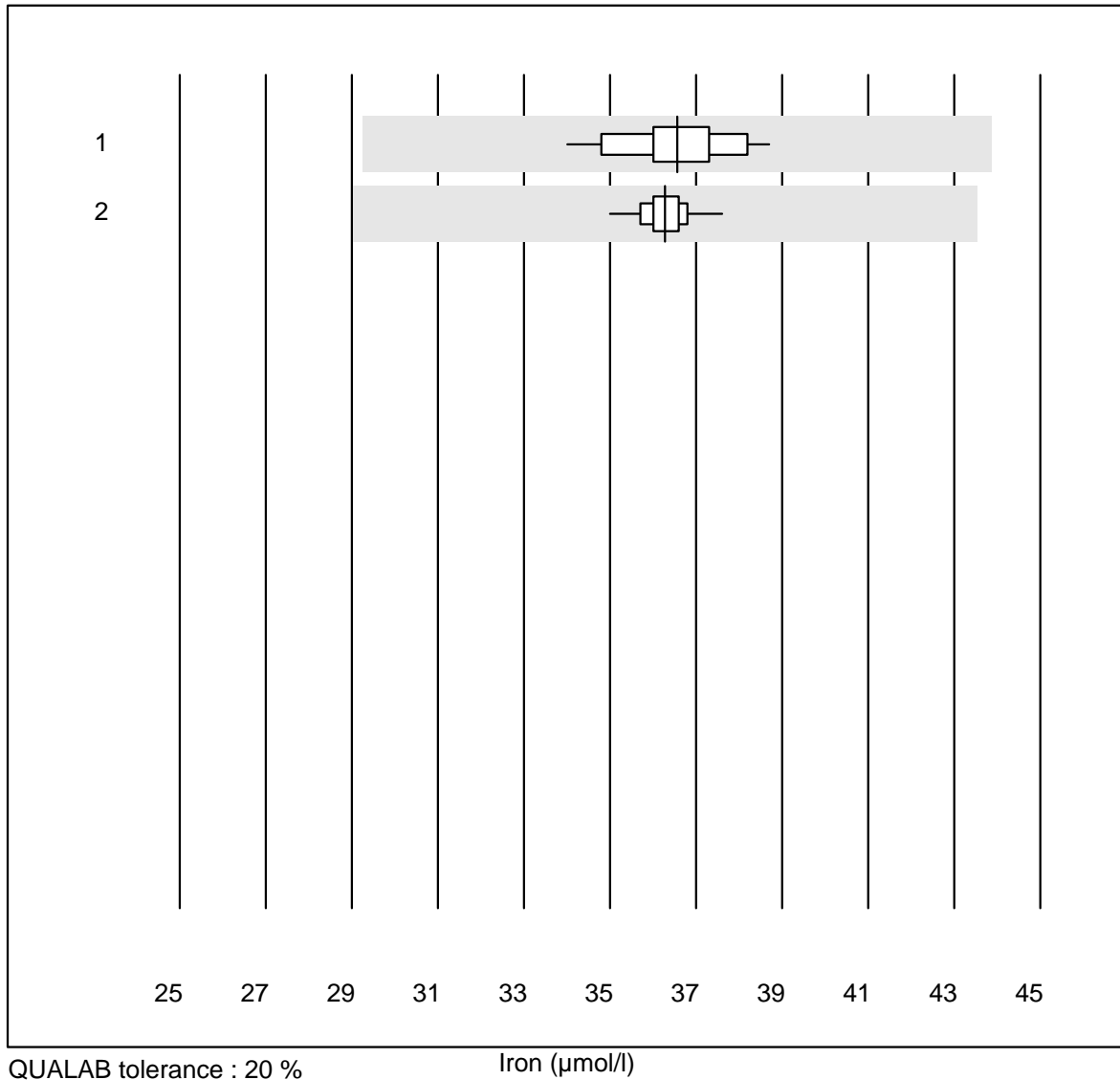
QUALAB tolerance : 18 %

Cholesterol LDL (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Selectra	6	83.3	0.0	16.7	2.7	7.5	e*
2	Standard chemistry	14	100.0	0.0	0.0	2.2	5.2	e
3	Roche, Cobas	12	100.0	0.0	0.0	3.0	4.4	e
4	Autolyser/DiaSys	13	76.9	0.0	23.1	3.0	8.0	e*
5	Beckman	4	100.0	0.0	0.0	2.8	3.0	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Iron



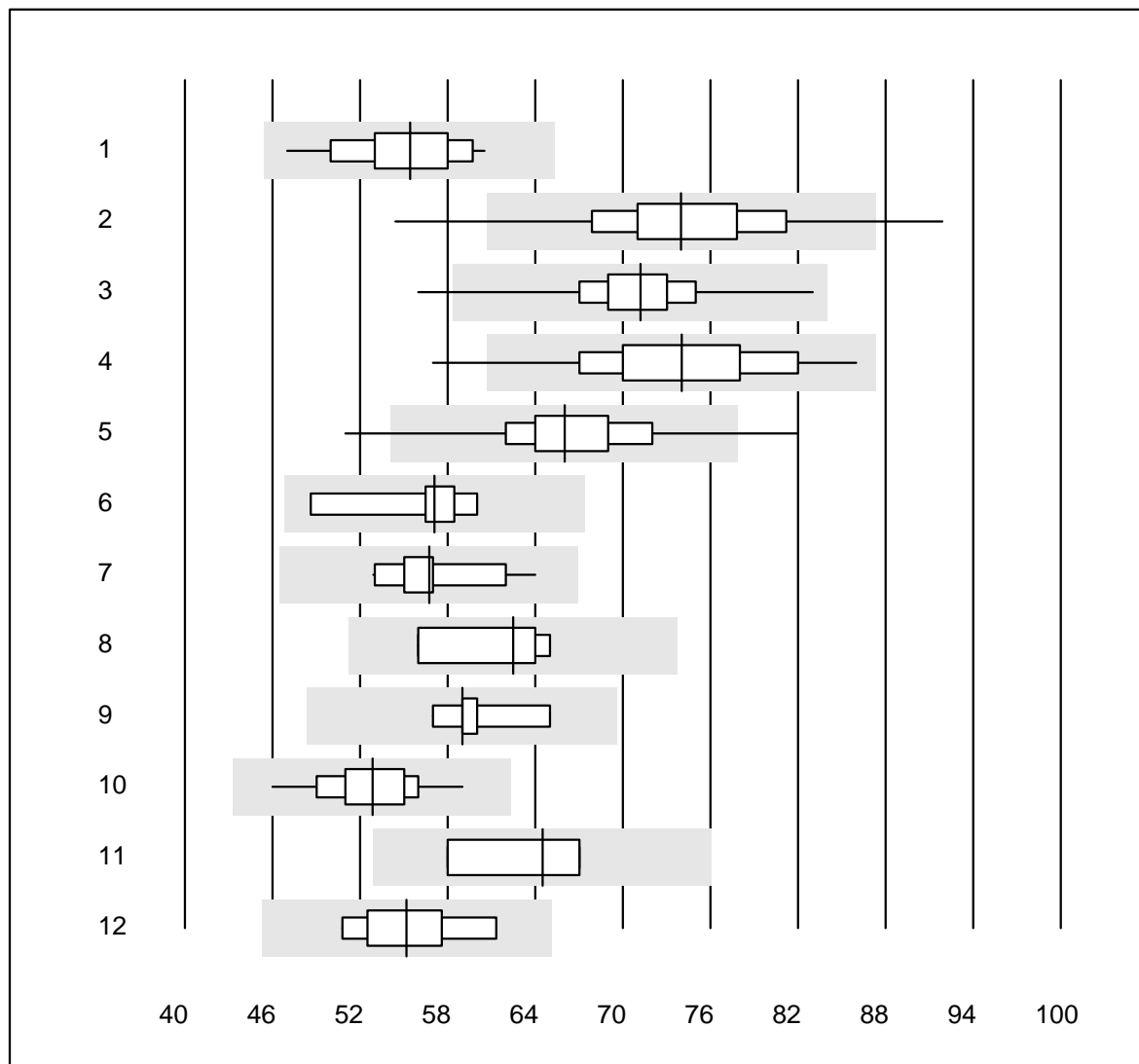
QUALAB tolerance : 20 %

Iron (µmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	14	100.0	0.0	0.0	37	3.4	e
2	Cobas	14	100.0	0.0	0.0	36	1.6	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Gamma-glutamyltransferase



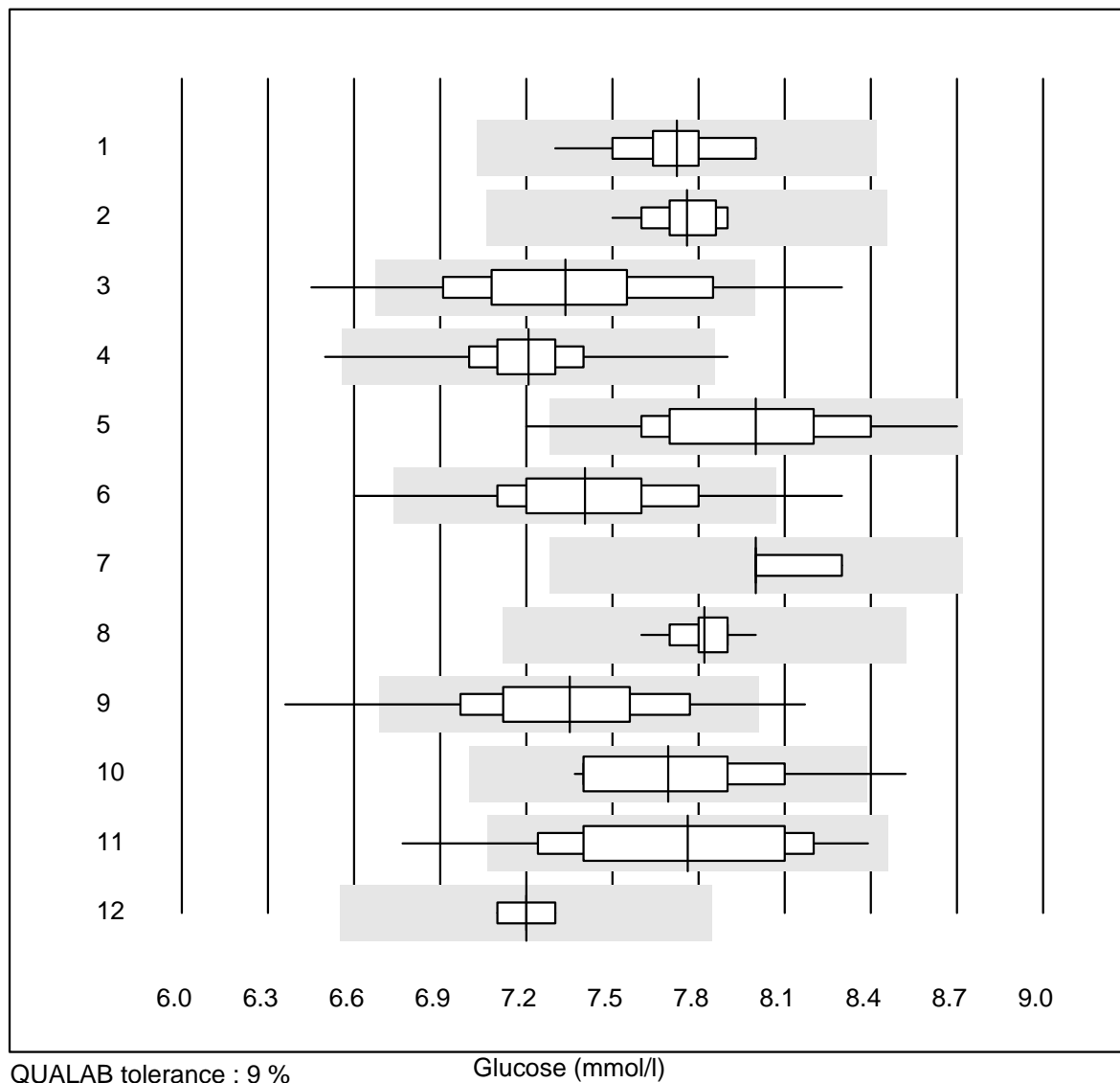
QUALAB tolerance : 18 %

Gamma-glutamyltransferase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	26	100.0	0.0	0.0	55	7.1	e
2	Reflotron	322	96.3	2.5	1.2	74	7.3	e
3	Fuji Dri-Chem	1046	99.1	0.1	0.8	71	4.8	e
4	Spotchem SP-4430	93	95.7	3.2	1.1	74	7.8	e
5	Spotchem D-Concept	474	96.8	2.1	1.1	66	6.4	e
6	Selectra/Biolis	5	100.0	0.0	0.0	57	7.9	e*
7	Architect	12	100.0	0.0	0.0	57	5.7	e
8	Dimension	4	100.0	0.0	0.0	63	6.6	e*
9	IFCC Beckmann	6	100.0	0.0	0.0	59	4.5	e
10	Piccolo	54	100.0	0.0	0.0	53	5.5	e
11	Skylla	4	100.0	0.0	0.0	65	6.9	e*
12	Selectra Pro	10	90.0	0.0	10.0	55	6.4	e
13	Autolyser/DiaSys	20	100.0	0.0	0.0	59	3.6	e

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

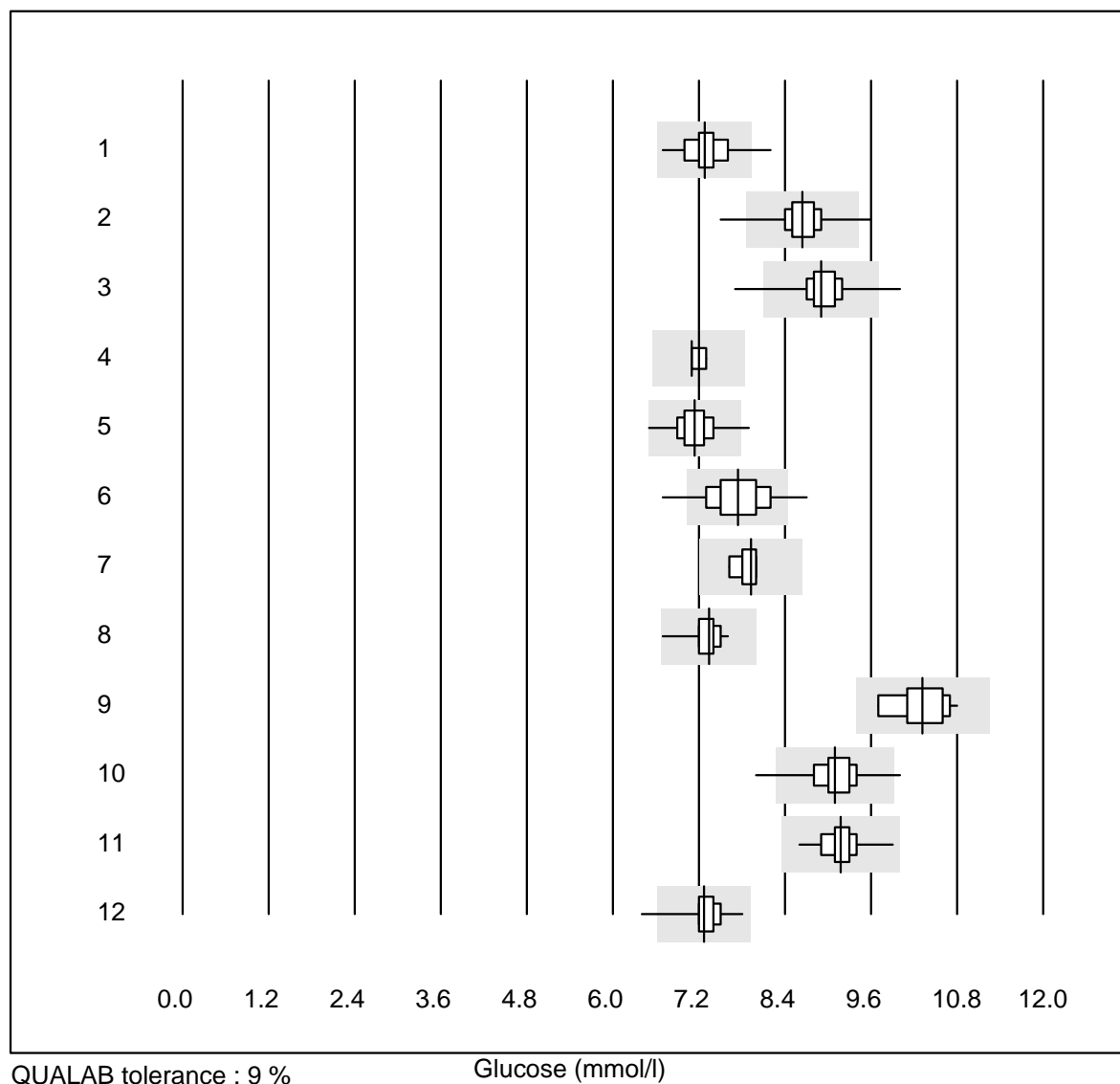
Glucose



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	26	100.0	0.0	0.0	7.7	2.2	e
2	Cobas	25	100.0	0.0	0.0	7.8	1.5	e
3	Reflotron	313	87.2	7.7	5.1	7.3	4.9	e
4	Fuji Dri-Chem	977	99.3	0.2	0.5	7.2	2.2	e
5	Spotchem SP-4430	78	94.9	3.8	1.3	8.0	4.3	e
6	Spotchem D-Concept	443	97.3	1.8	0.9	7.4	3.7	e
7	Dimension	4	100.0	0.0	0.0	8.0	1.9	e
8	Piccolo	74	98.6	0.0	1.4	7.8	1.2	e
9	Cholestech LDX	302	96.4	3.3	0.3	7.4	4.2	e
10	Selectra Pro	15	93.3	6.7	0.0	7.7	4.1	e
11	Autolyser/DiaSys	19	94.7	5.3	0.0	7.8	5.2	e*
12	iStat Chem8	7	100.0	0.0	0.0	7.2	0.8	e

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

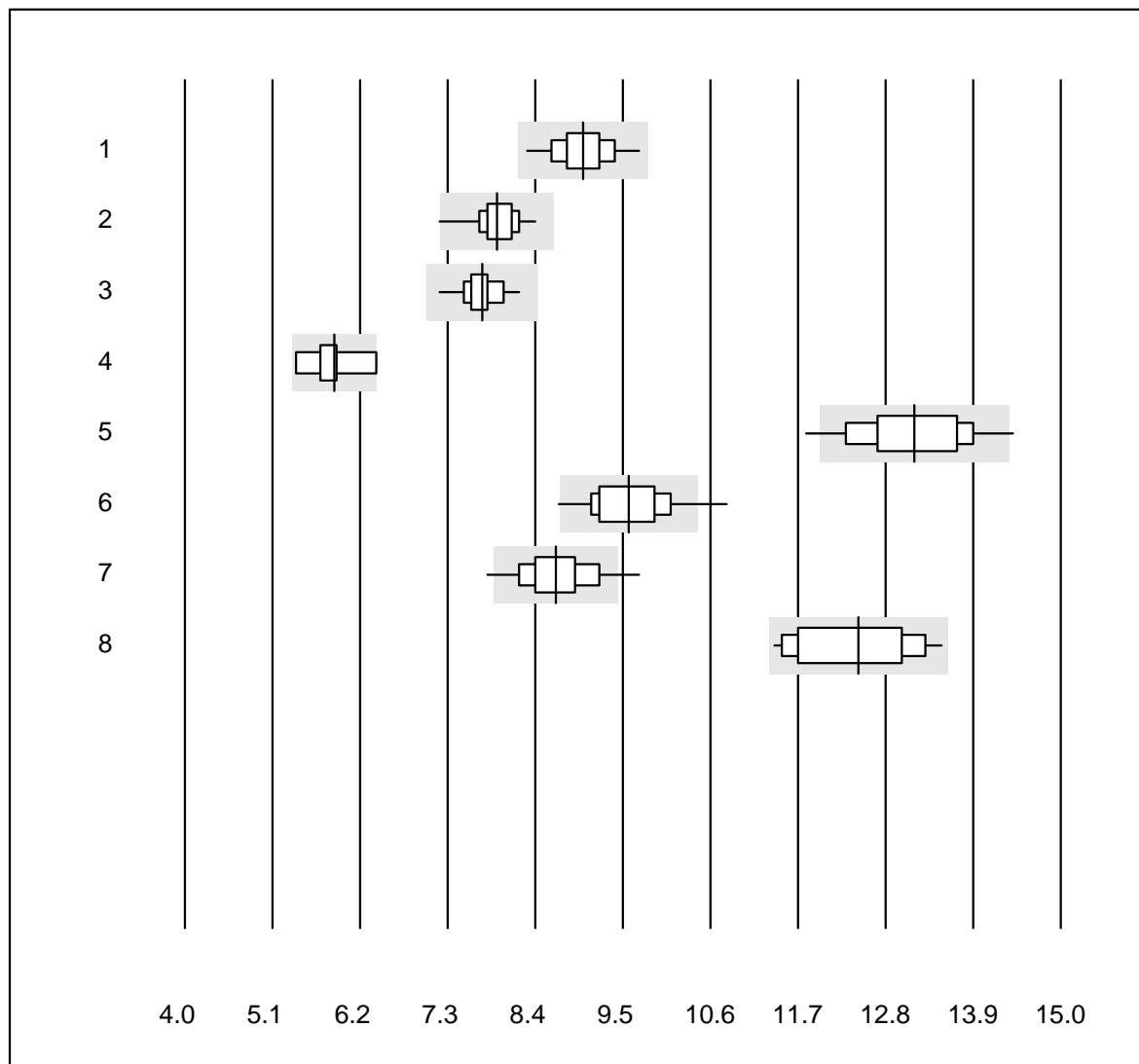
Glucose



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Accu-Chek Instant	105	98.0	1.0	1.0	7.3	3.5	e
2	Accu-Chek Aviva	251	90.8	4.8	4.4	8.6	3.5	e
3	Accu-Chek Inform 2	783	98.6	1.0	0.4	8.9	2.8	e
4	Accu-Chek Mobile	9	100.0	0.0	0.0	7.2	1.0	e
5	Accu-Check Guide	294	99.0	1.0	0.0	7.1	2.7	e
6	Contour XT	1301	94.4	3.6	2.0	7.7	4.4	e
7	Skyla	6	100.0	0.0	0.0	7.9	2.0	e
8	Statstrip/Xpress	100	100.0	0.0	0.0	7.3	2.0	e
9	Glucocard	10	100.0	0.0	0.0	10.3	3.2	e
10	Hemocue 201+ P-equiv	105	96.2	1.9	1.9	9.1	3.1	e
11	Hemocue 201RT P-equiv	130	99.2	0.0	0.8	9.2	2.4	e
12	Contour NEXT	12	91.7	8.3	0.0	7.3	4.5	e*

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

Glucose B



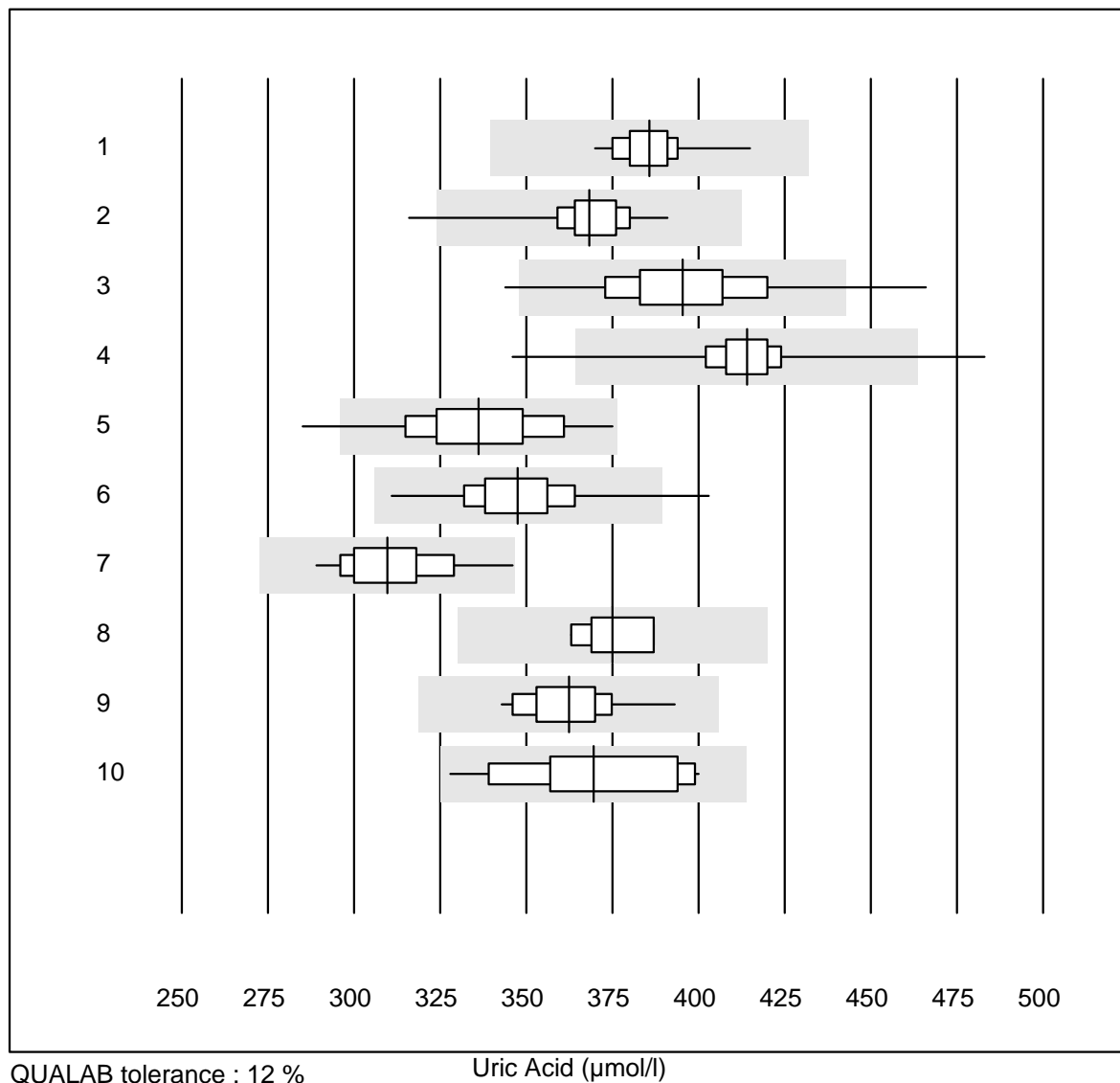
QUALAB tolerance : 9 %

Glucose B (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Hemocue 201+ (alt)	34	97.1	0.0	2.9	9.0	3.5	e
2	AccuChek Sensor	30	96.7	3.3	0.0	7.9	3.1	e
3	OneTouch Verio	23	100.0	0.0	0.0	7.7	2.9	e
4	Contour 2 (5s)	12	75.0	0.0	25.0	5.9	5.2	e*
5	Healthpro	27	85.2	7.4	7.4	13.2	4.8	e
6	Mylife UNIO	364	97.6	1.9	0.5	9.6	4.3	e
7	mylife Pura	99	96.0	2.0	2.0	8.7	4.6	e
8	Alpha Check	23	65.2	0.0	34.8	12.5	5.4	e*

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

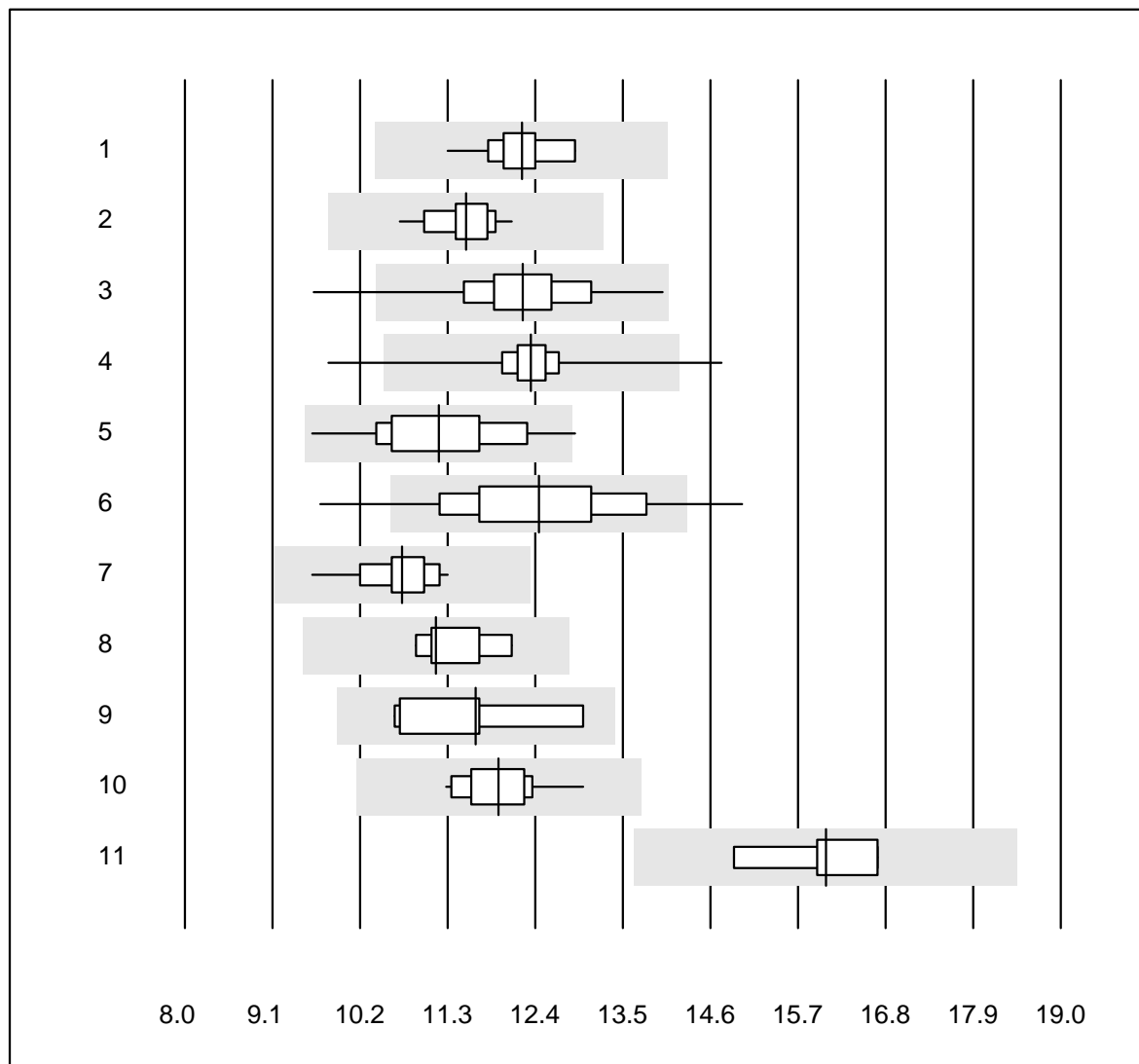
Uric Acid



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	28	96.4	0.0	3.6	386	2.4	e
2	Cobas	22	95.5	4.5	0.0	368	4.0	e
3	Reflotron	252	95.2	2.8	2.0	395	5.0	e
4	Fuji Dri-Chem	970	97.8	0.7	1.5	414	2.5	e
5	Spotchem SP-4430	76	96.1	1.3	2.6	336	5.4	e
6	Spotchem D-Concept	445	99.1	0.2	0.7	348	3.7	e
7	Piccolo	34	100.0	0.0	0.0	310	4.5	e
8	Skyla	5	100.0	0.0	0.0	375	2.9	e
9	Selectra Pro	16	100.0	0.0	0.0	362	3.6	e
10	Autolyser/DiaSys	19	100.0	0.0	0.0	370	5.6	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Urea



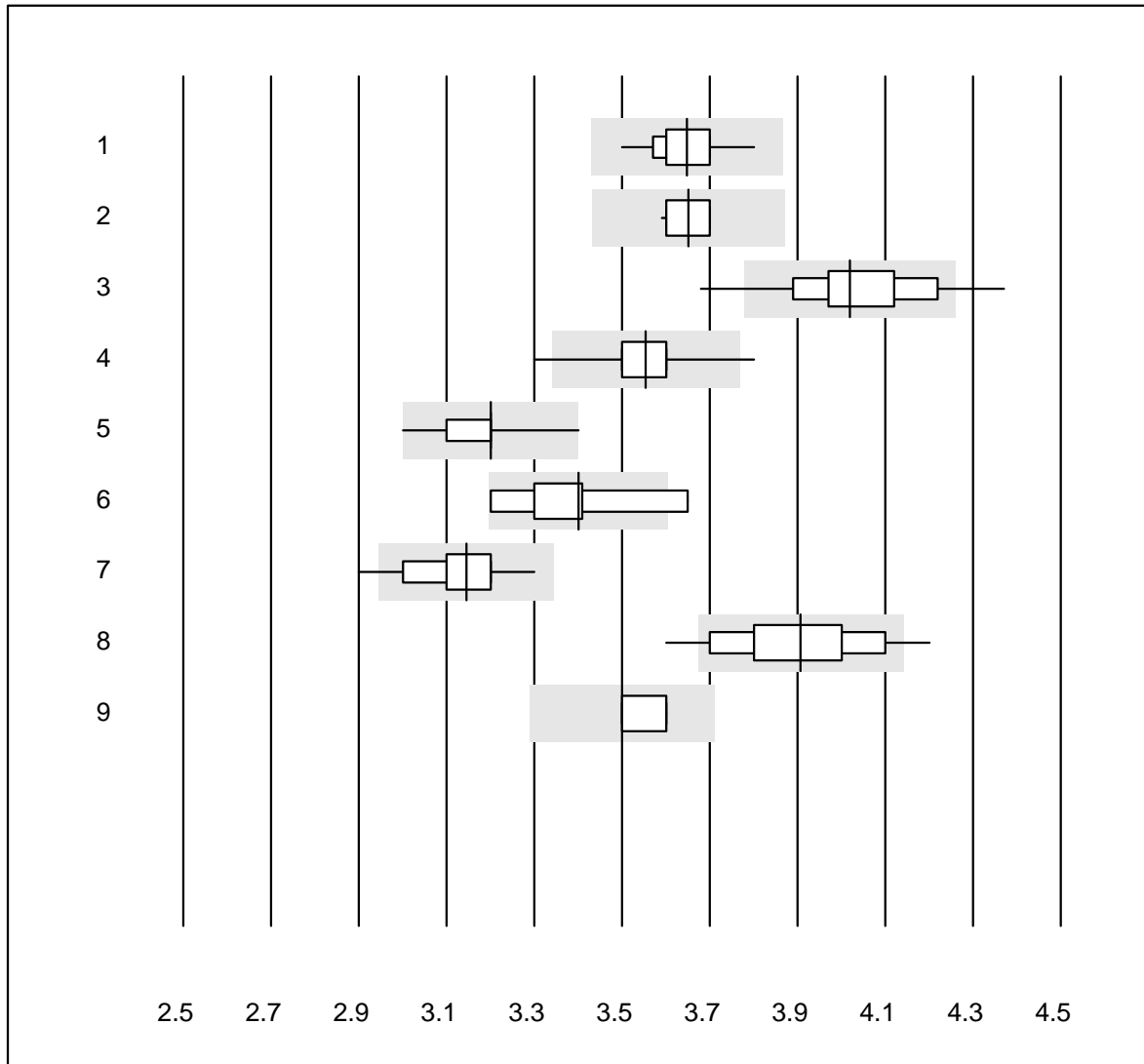
QUALAB tolerance : 15 %

Urea (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	24	100.0	0.0	0.0	12.2	3.2	e
2	Cobas	23	100.0	0.0	0.0	11.5	3.0	e
3	Reflotron	118	95.8	0.8	3.4	12.2	5.6	e
4	Fuji Dri-Chem	593	99.7	0.3	0.0	12.3	2.6	e
5	Spotchem SP-4430	47	97.9	2.1	0.0	11.2	6.6	e
6	Spotchem D-Concept	261	88.5	7.3	4.2	12.4	8.2	e
7	Piccolo	63	98.4	0.0	1.6	10.7	3.5	e
8	Skyla	6	100.0	0.0	0.0	11.2	4.0	e
9	Selectra Pro	8	100.0	0.0	0.0	11.7	7.5	e*
10	Autolyser/DiaSys	15	100.0	0.0	0.0	11.9	3.7	e
11	iStat Chem8	6	100.0	0.0	0.0	16.1	4.1	e

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

Potassium



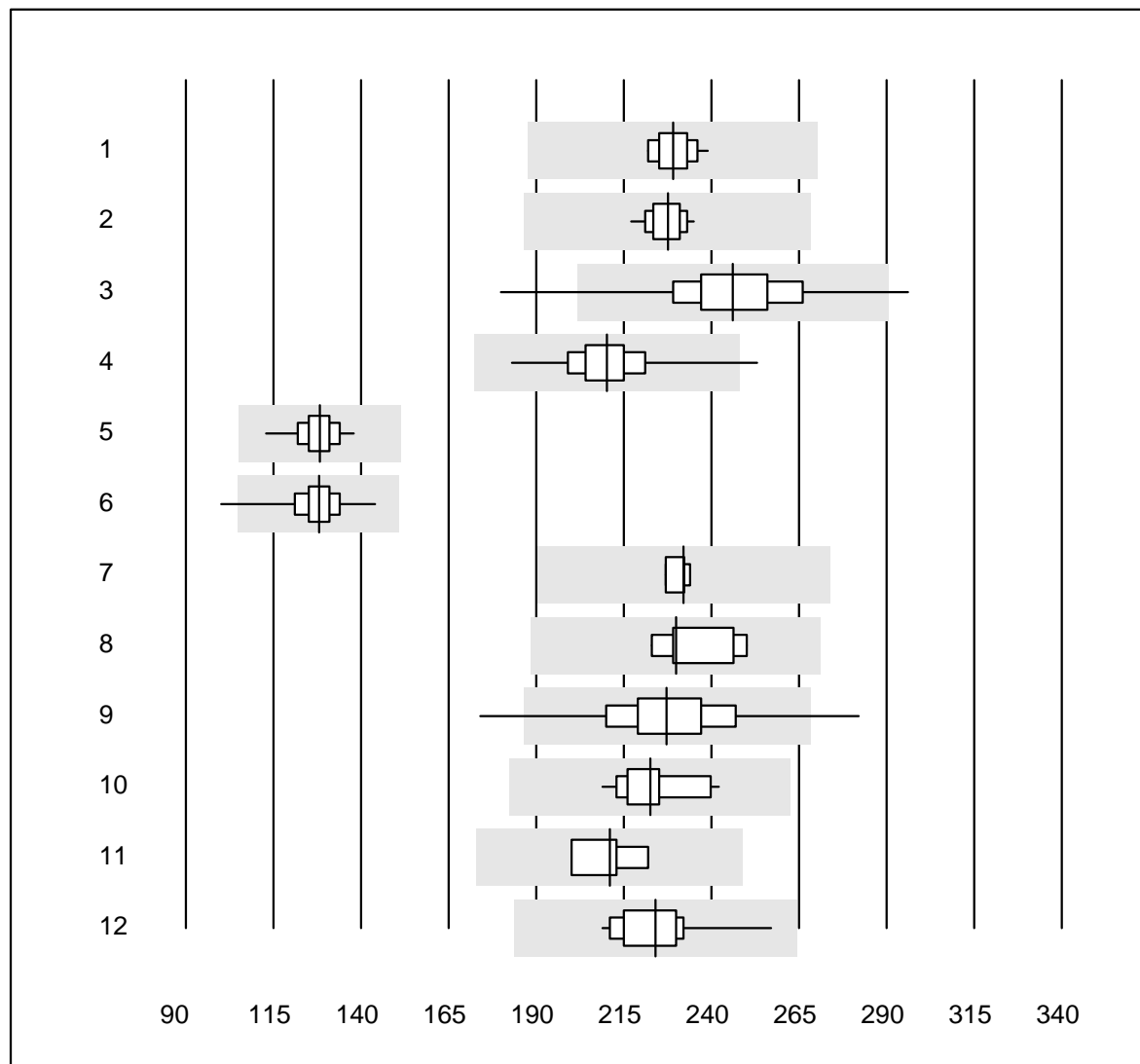
QUALAB tolerance : 6 %
(< 3.30: +/- 0.20 mmol/l)

Potassium (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ISE	38	100.0	0.0	0.0	3.65	1.8	e
2	Cobas	25	100.0	0.0	0.0	3.65	1.1	e
3	Reflotron	278	87.0	7.6	5.4	4.02	3.2	e
4	Fuji Dri-Chem	1023	96.8	1.2	2.0	3.55	1.8	e
5	Spotchem D-Concept	440	97.7	1.4	0.9	3.20	1.7	e
6	Autolyser/DiaSys	8	75.0	12.5	12.5	3.40	4.2	e*
7	Spotchem EL-SE 1520	73	91.8	6.8	1.4	3.15	3.0	e
8	Piccolo	46	80.5	6.5	13.0	3.91	3.9	e
9	iStat Chem8	7	100.0	0.0	0.0	3.50	1.4	e

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

Creatinine



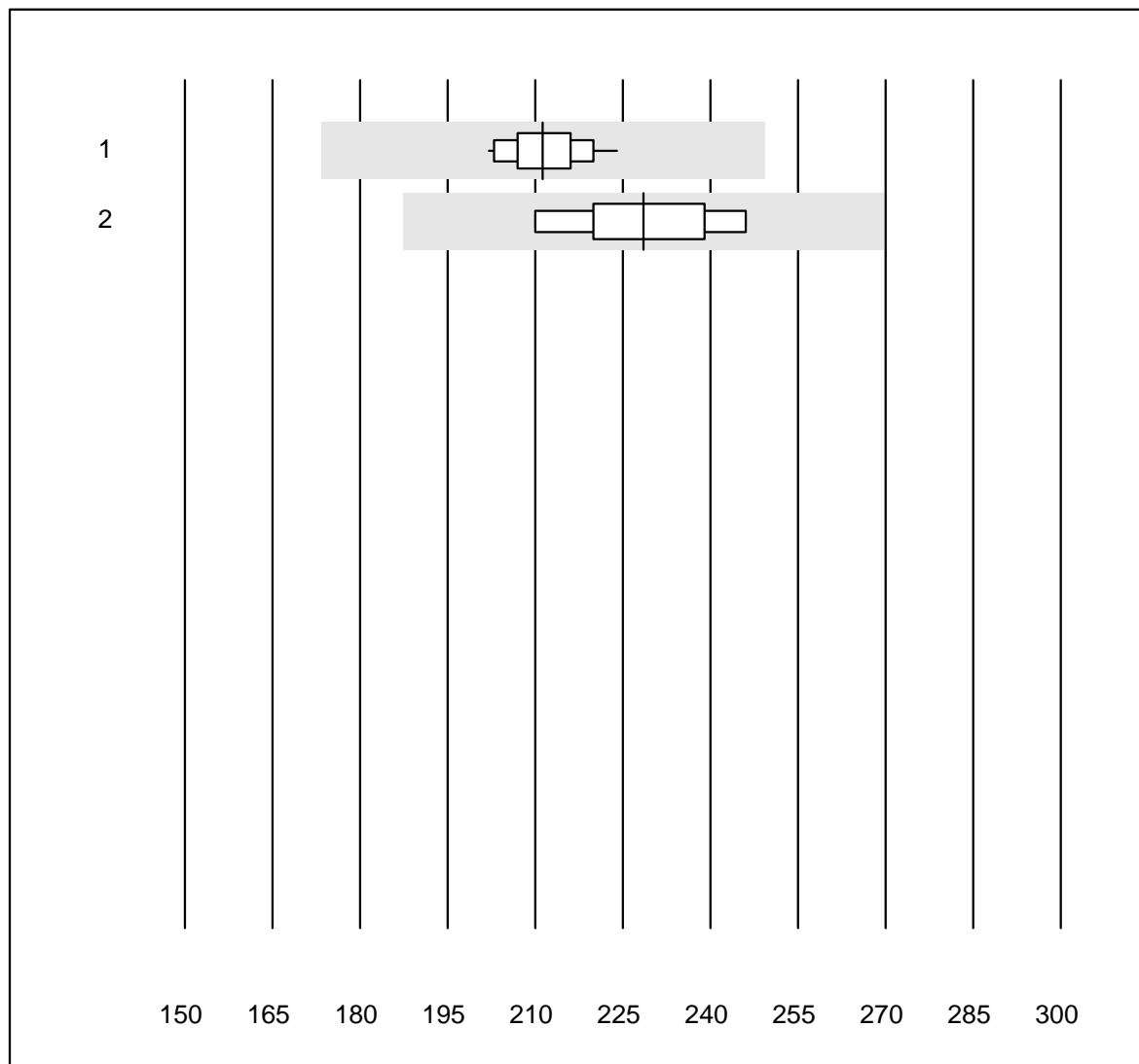
QUALAB tolerance : 18 %

Creatinine (µmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	12	100.0	0.0	0.0	229	2.4	e
2	Cobas	24	100.0	0.0	0.0	228	2.0	e
3	Reflotron	409	95.1	2.7	2.2	246	6.8	e
4	Fuji Dri-Chem	1071	98.9	0.1	1.0	210	4.2	e
5	Spotchem SP-4430	104	100.0	0.0	0.0	128	4.1	e
6	Spotchem D-Concept	474	99.2	0.2	0.6	128	4.3	e
7	Jaffé Boehringer	4	100.0	0.0	0.0	232	1.3	e
8	Enzymatic	9	100.0	0.0	0.0	230	4.3	e
9	Piccolo	70	95.7	2.9	1.4	227	7.2	e
10	Selectra Pro	17	94.1	0.0	5.9	222	4.1	e
11	Skyla	5	80.0	0.0	20.0	211	4.3	e
12	Autolyser/DiaSys	20	100.0	0.0	0.0	224	4.9	e
13	Other methods	5	100.0	0.0	0.0	243	4.0	e
14	EPOC	10	90.0	0.0	10.0	216	7.1	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Creatinine E

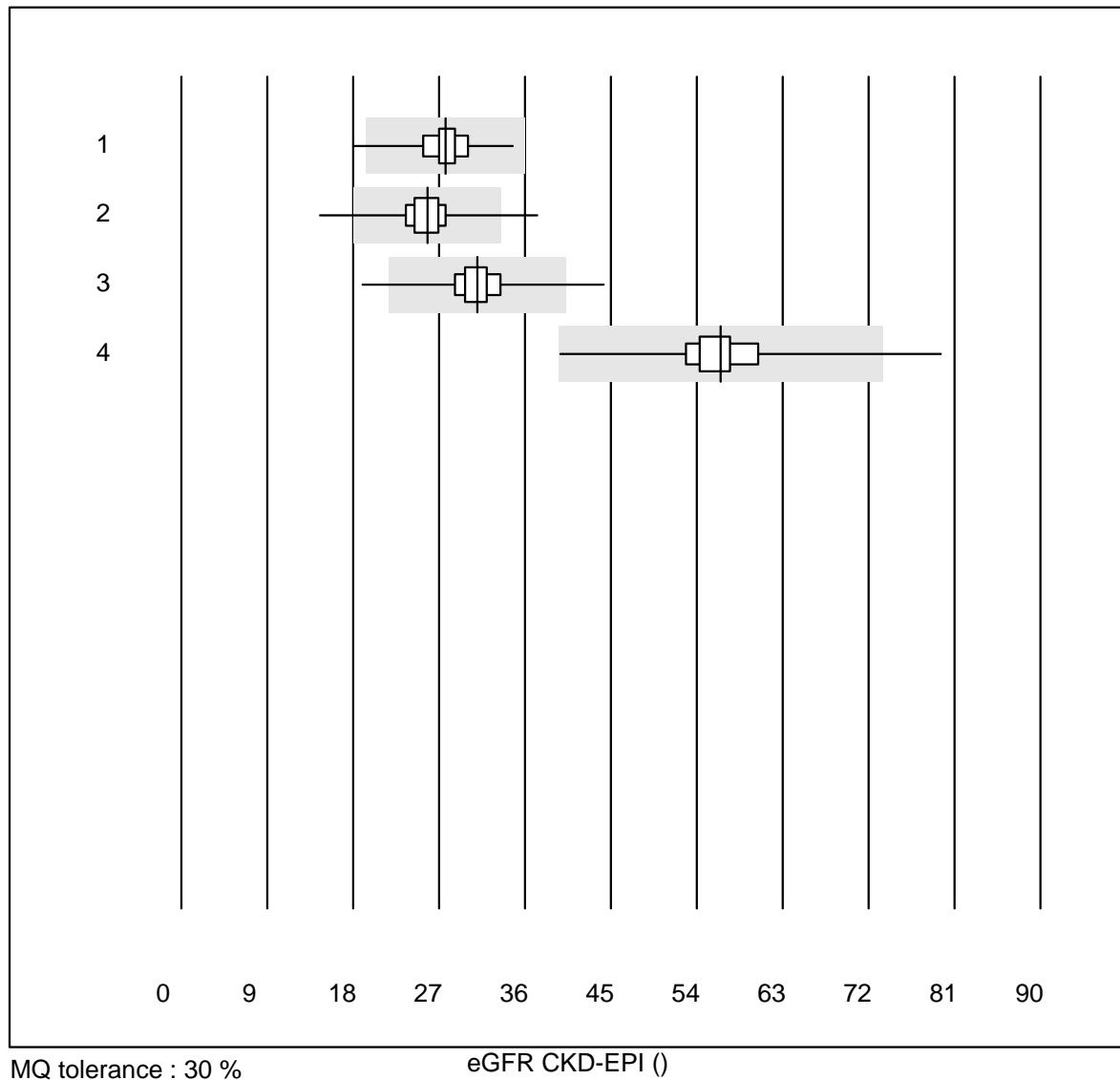


QUALAB tolerance : 18 %

Creatinine E (µmol/l)

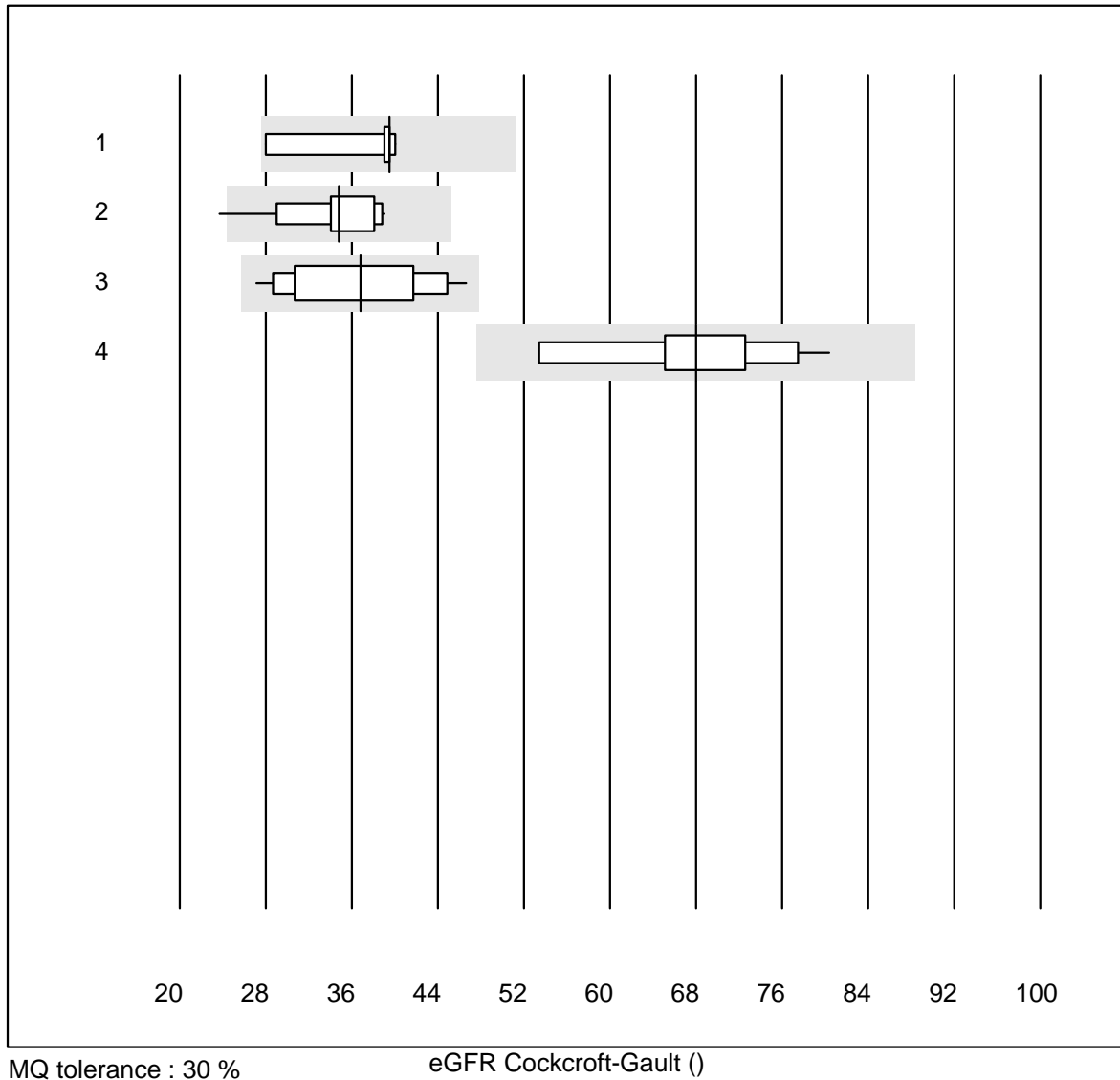
No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	iStat Chem8	13	100.0	0.0	0.0	211	3.3	e
2	ABL700/800	8	100.0	0.0	0.0	229	5.3	e

eGFR CKD-EPI



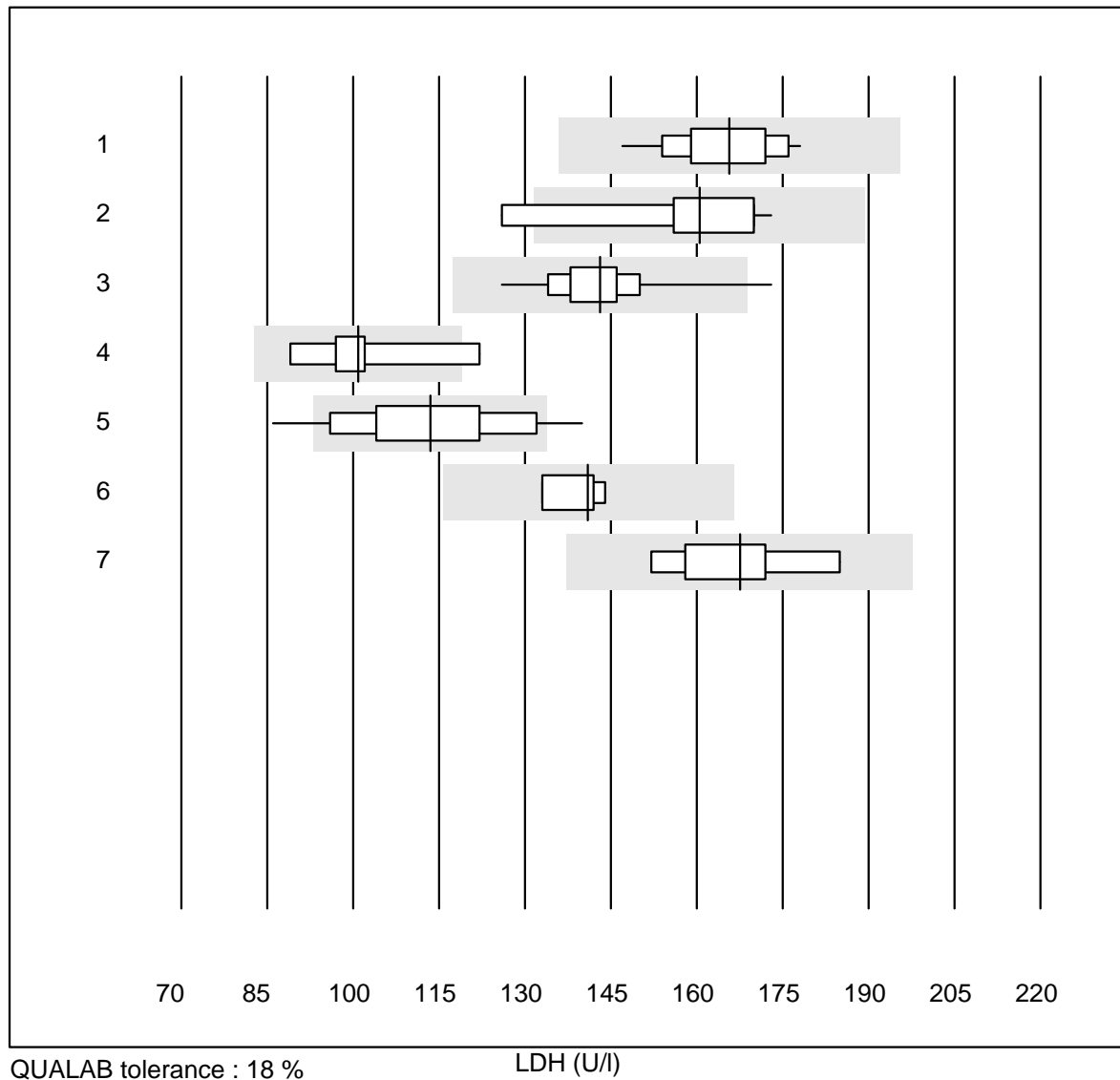
No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	64	93.7	1.6	4.7	28	8.9	e
2	Reflotron	108	94.4	2.8	2.8	26	10.2	e
3	Fuji Dri-Chem	401	94.0	2.5	3.5	31	8.5	e
4	Spotchem	214	96.7	1.9	1.4	57	8.6	e

eGFR Cockcroft-Gault



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	5	100.0	0.0	0.0	39	13.9	e*
2	Reflotron	12	83.4	8.3	8.3	35	13.4	e*
3	Fuji Dri-Chem	33	97.0	0.0	3.0	37	17.3	e
4	Spotchem	10	100.0	0.0	0.0	68	12.7	e*

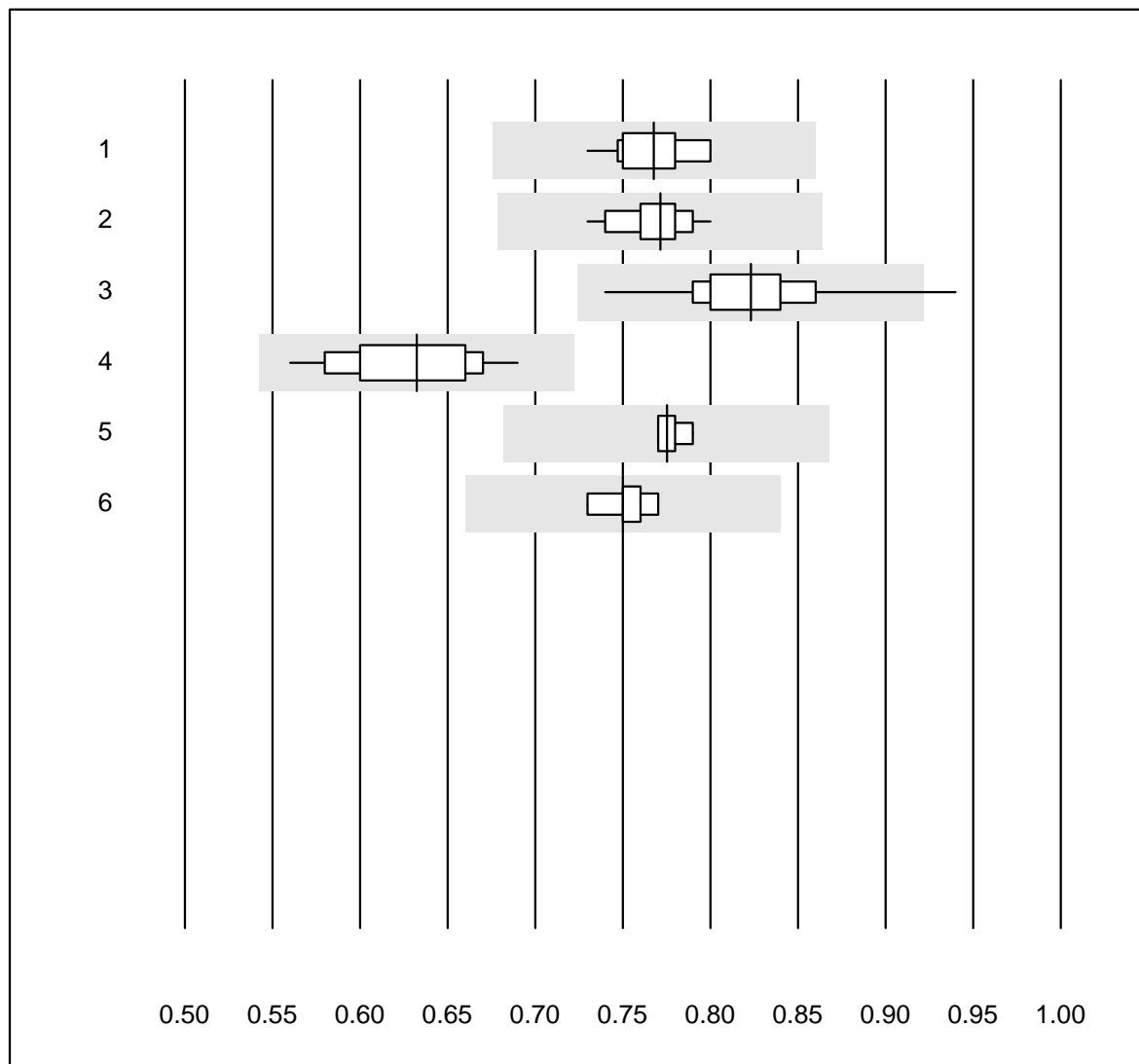
LDH



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 IFCC	37	100.0	0.0	0.0	166	4.8	e
2 Cobas	10	90.0	10.0	0.0	161	8.3	e*
3 Fuji Dri-Chem	144	95.8	1.4	2.8	143	5.2	e
4 Spotchem SP-4430	11	54.5	9.1	36.4	101	10.1	e*
5 Spotchem D-Concept	45	77.7	15.6	6.7	113	11.9	e
6 Piccolo	4	100.0	0.0	0.0	141	3.4	e
7 Autolyser/DiaSys	8	100.0	0.0	0.0	168	6.8	e*

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

Magnesium



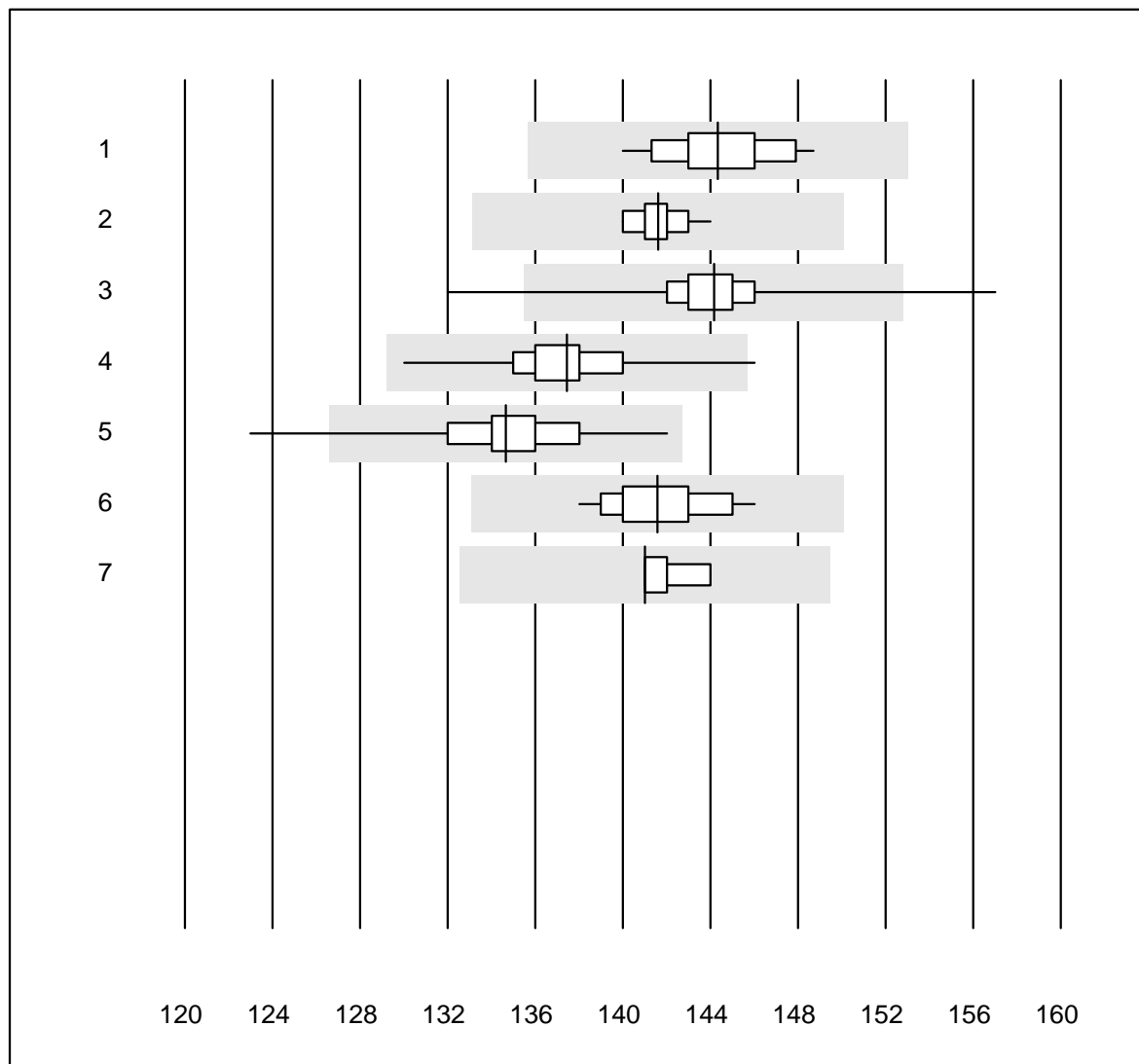
QUALAB tolerance : 12 %
 (< 0.70: +/- 0.09 mmol/l)

Magnesium (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	20	100.0	0.0	0.0	0.77	2.8	e
2	Cobas	16	100.0	0.0	0.0	0.77	2.4	e
3	Fuji Dri-Chem	103	98.0	1.0	1.0	0.82	3.6	e
4	Spotchem D-Concept	40	100.0	0.0	0.0	0.63	5.2	e
5	Beckman	4	100.0	0.0	0.0	0.78	1.2	e
6	Piccolo	5	100.0	0.0	0.0	0.75	2.0	e

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

Sodium



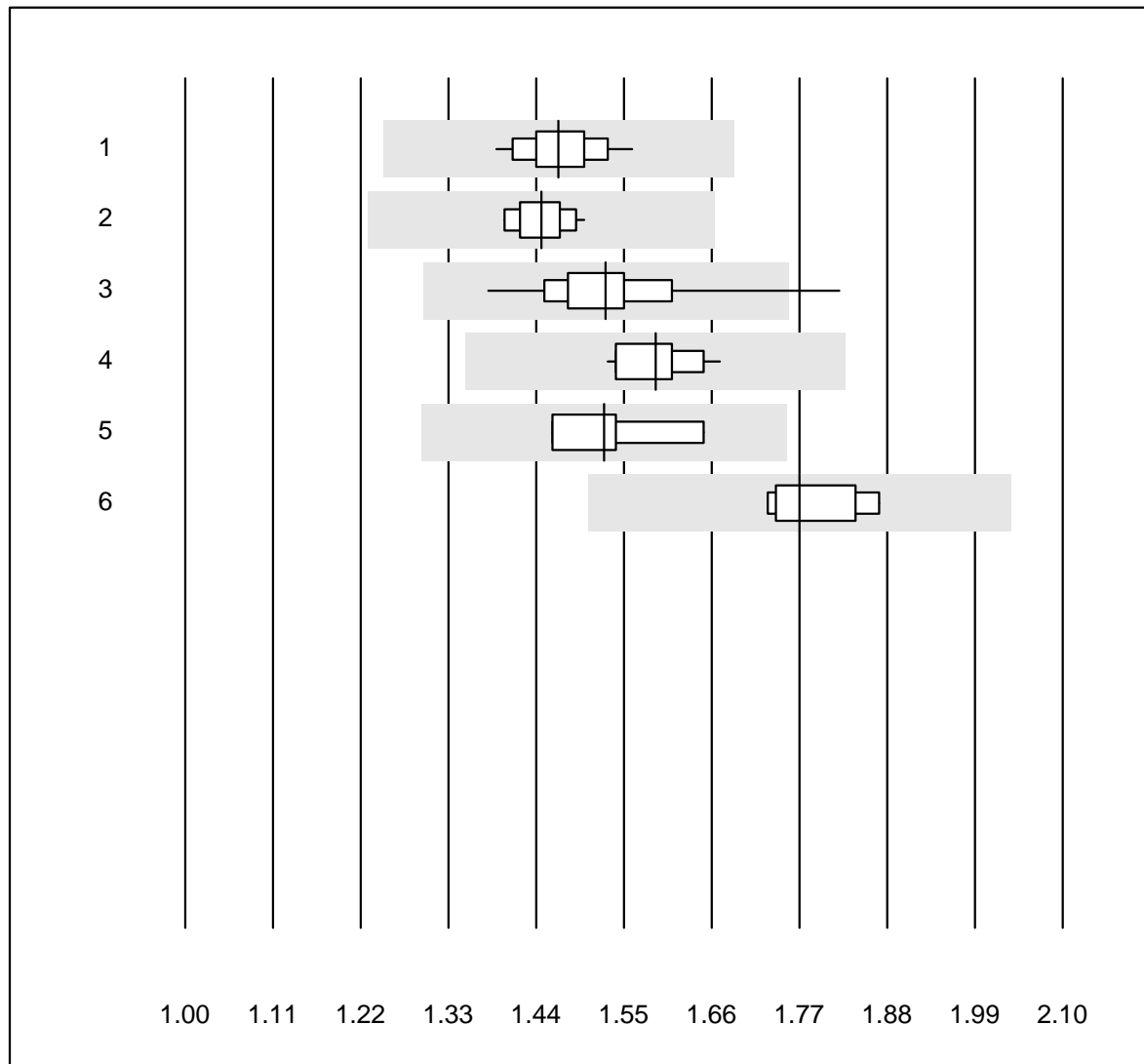
QUALAB tolerance : 6 %

Sodium (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ISE	39	100.0	0.0	0.0	144	1.5	e
2	Cobas	25	100.0	0.0	0.0	142	0.7	e
3	Fuji Dri-Chem	936	97.7	0.9	1.4	144	1.5	e
4	Spotchem D-Concept	394	99.4	0.3	0.3	137	1.3	e
5	Spotchem EL-SE 1520	70	94.3	4.3	1.4	135	2.5	e
6	Piccolo	47	97.9	0.0	2.1	142	1.5	e
7	iStat Chem8	7	100.0	0.0	0.0	141	0.8	e

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

Phosphate



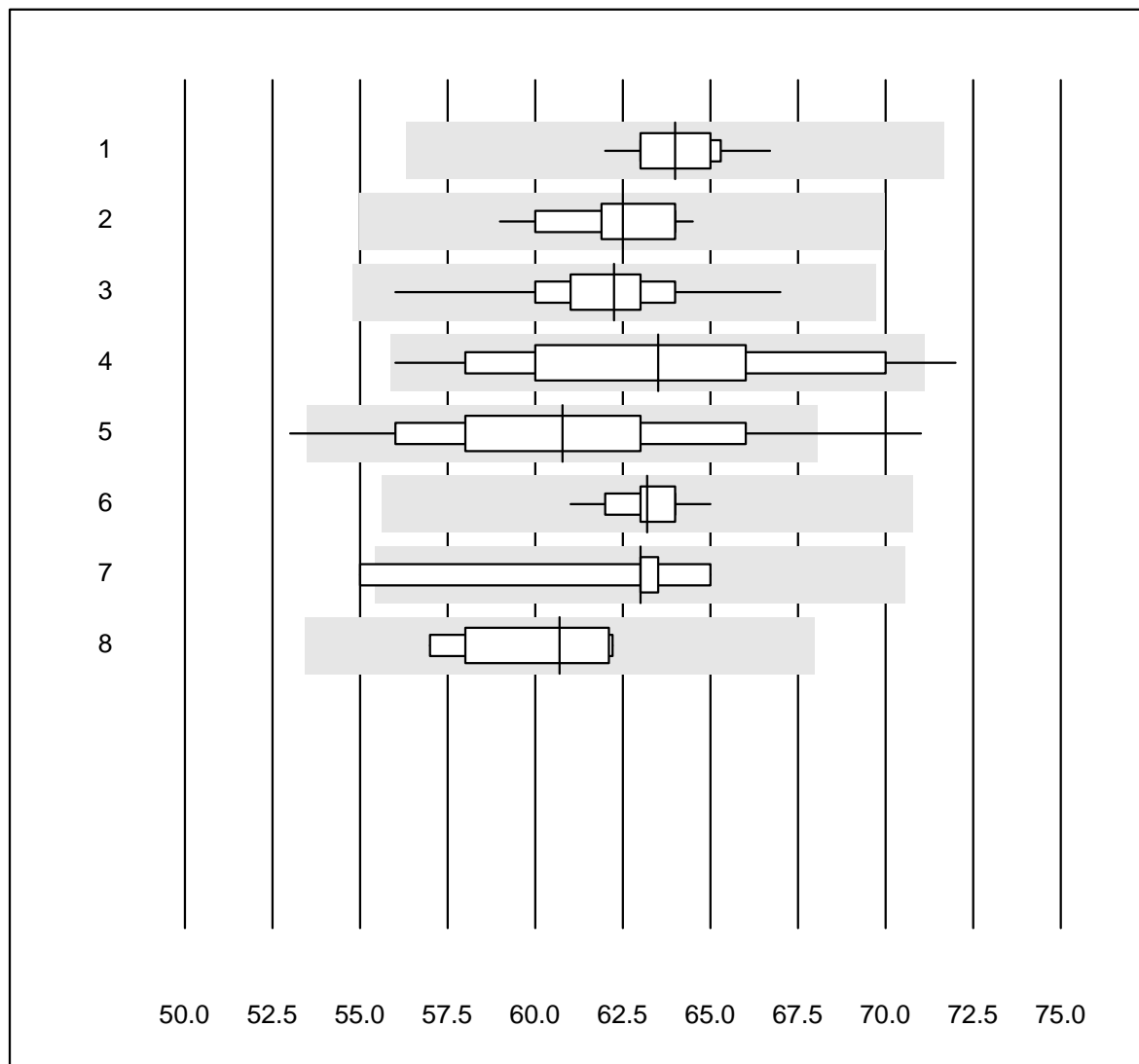
QUALAB tolerance : 15 %

Phosphate (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	23	95.7	0.0	4.3	1.5	3.2	e
2	Cobas	20	100.0	0.0	0.0	1.4	2.1	e
3	Fuji Dri-Chem	82	96.4	1.2	2.4	1.5	4.9	e
4	Spotchem D-Concept	15	100.0	0.0	0.0	1.6	2.7	e
5	Spotchem SP-4430	4	100.0	0.0	0.0	1.5	5.2	e*
6	Piccolo	9	100.0	0.0	0.0	1.8	3.1	e

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

Protein total



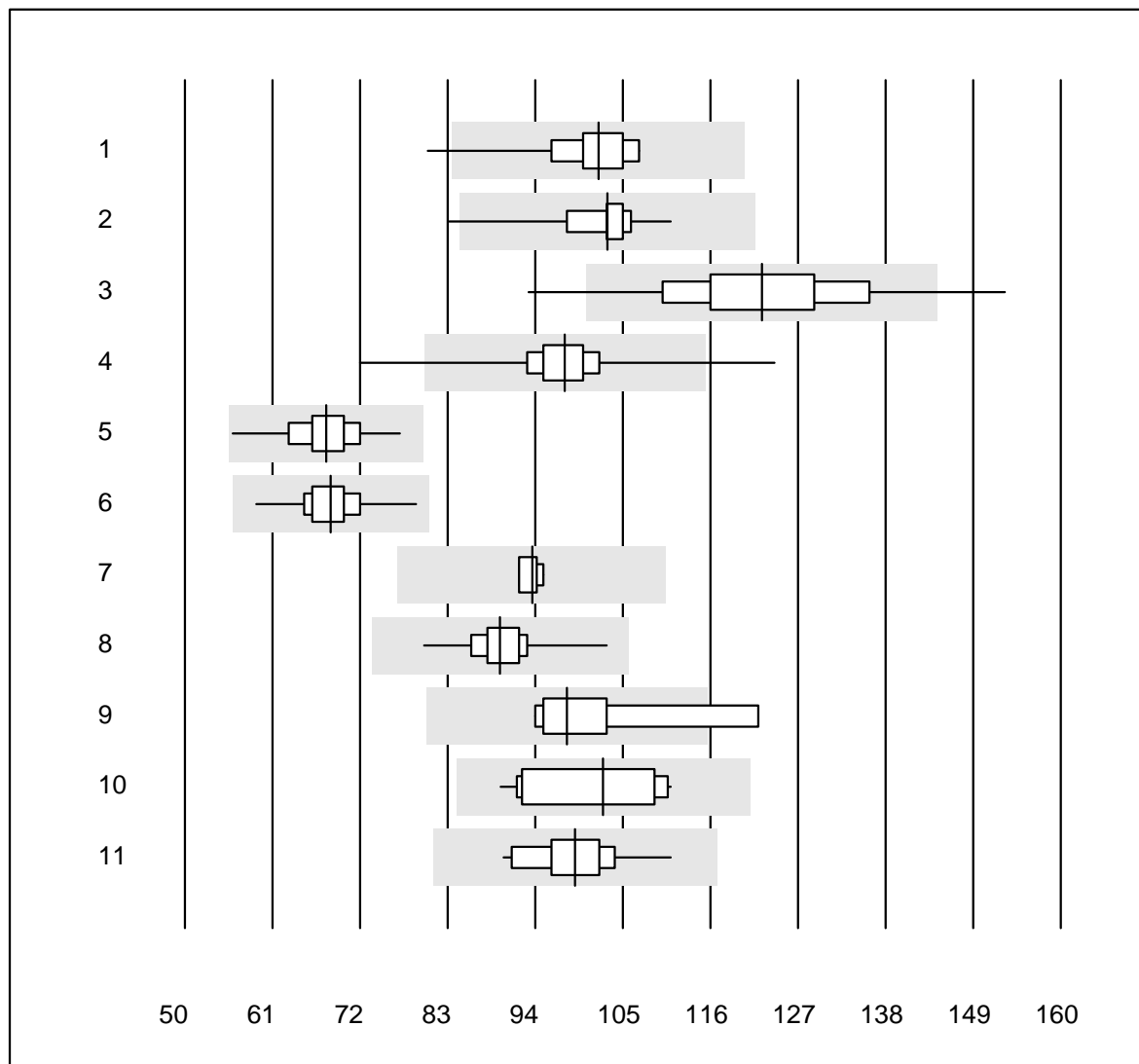
QUALAB tolerance : 12 %

Protein total (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	23	100.0	0.0	0.0	64.0	1.7	e
2	Cobas	20	100.0	0.0	0.0	62.5	2.4	e
3	Fuji Dri-Chem	187	98.9	0.0	1.1	62.3	2.8	e
4	Spotchem SP-4430	24	95.8	4.2	0.0	63.5	6.6	e
5	Spotchem D-Concept	147	95.2	3.4	1.4	60.8	6.1	e
6	Piccolo	49	98.0	0.0	2.0	63.2	1.3	e
7	Skyla	5	80.0	20.0	0.0	63.0	6.4	e*
8	Selectra Pro	7	100.0	0.0	0.0	60.7	3.4	e

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

Aspartate aminotransferase



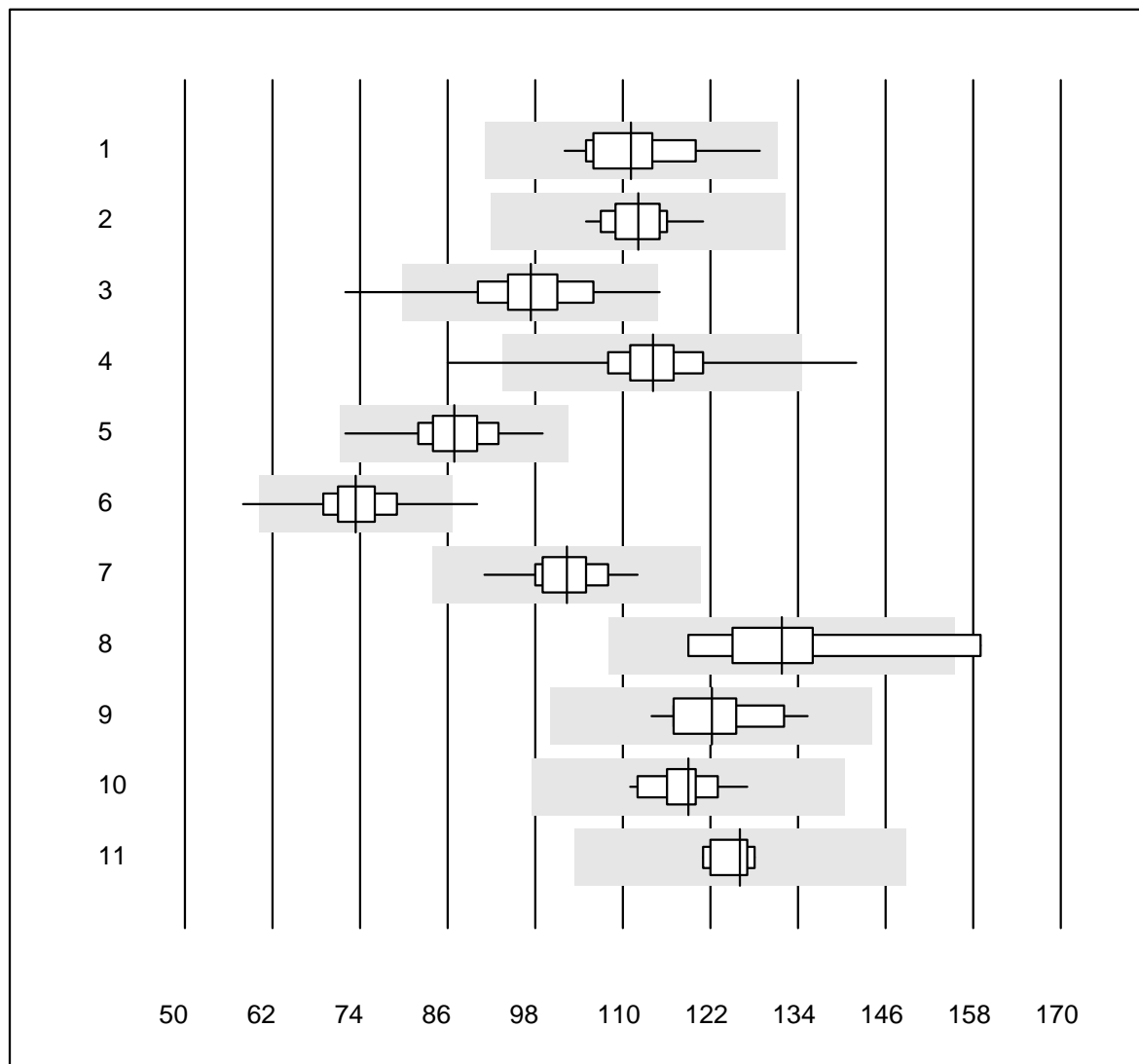
QUALAB tolerance : 18 %

Aspartate aminotransferase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	IFCC with PP	27	96.3	3.7	0.0	102	5.5	e
2	Cobas	22	95.5	4.5	0.0	103	5.3	e
3	Reflotron	334	93.7	3.3	3.0	122	8.3	e
4	Fuji Dri-Chem	1051	98.1	0.8	1.1	98	4.4	e
5	Spotchem SP-4430	101	99.0	0.0	1.0	68	5.1	e
6	Spotchem D-Concept	472	99.6	0.0	0.4	68	4.2	e
7	IFCC without PP	4	100.0	0.0	0.0	94	1.4	e
8	Piccolo	77	100.0	0.0	0.0	90	3.9	e
9	Skyla	6	83.3	16.7	0.0	98	10.3	e*
10	Selectra Pro	15	93.3	0.0	6.7	103	7.7	e
11	Autolyser/DiaSys	20	100.0	0.0	0.0	99	5.0	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Alanine aminotransferase



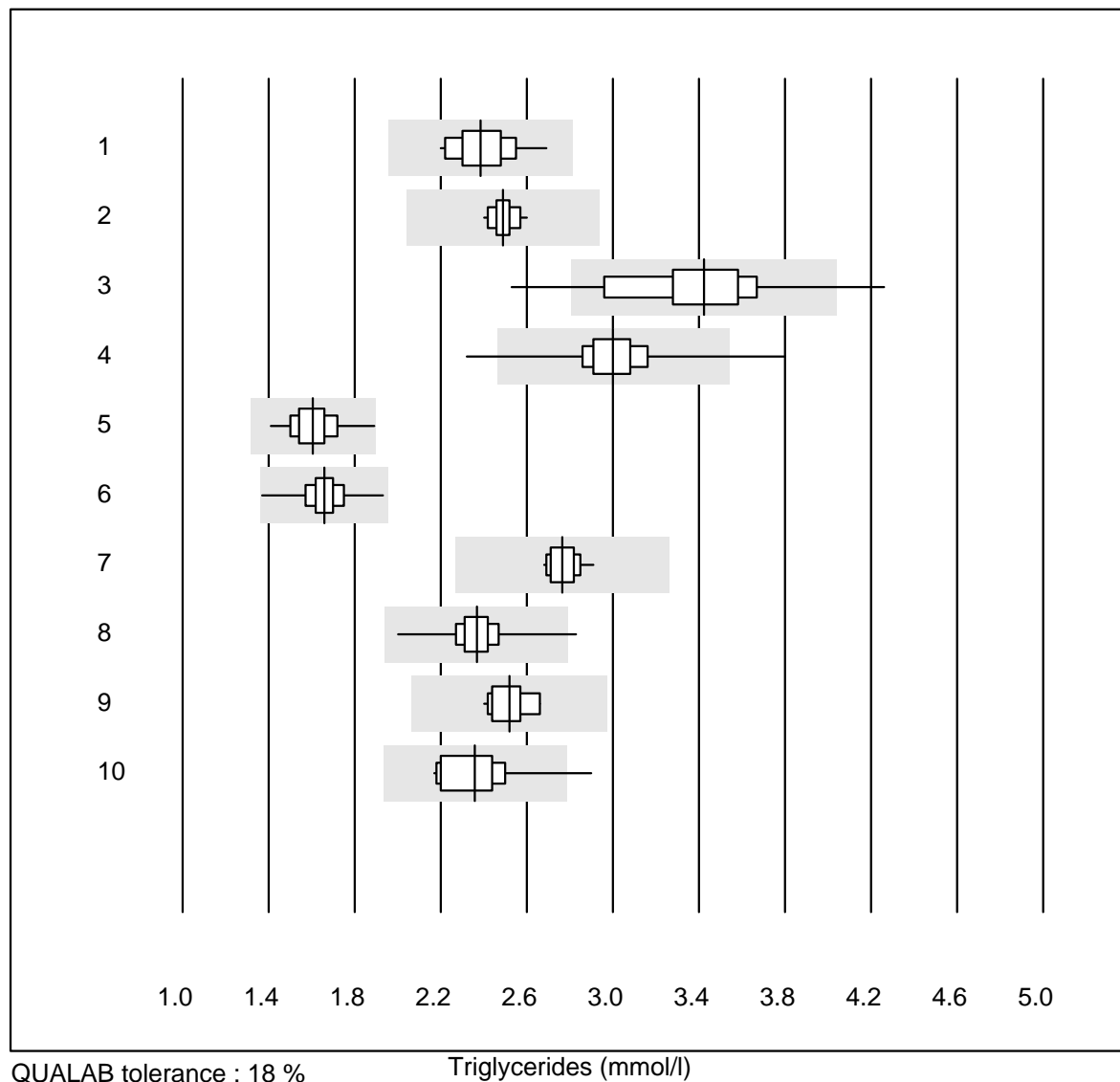
QUALAB tolerance : 18 %

Alanine aminotransferase (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	IFCC with PP	22	100.0	0.0	0.0	111	6.4	e
2	Cobas	26	100.0	0.0	0.0	112	3.5	e
3	Reflotron	341	94.2	2.9	2.9	97	7.0	e
4	Fuji Dri-Chem	1063	97.7	0.7	1.6	114	5.0	e
5	Spotchem SP-4430	102	100.0	0.0	0.0	87	5.6	e
6	Spotchem D-Concept	480	98.6	0.4	1.0	73	5.5	e
7	Piccolo	75	98.7	0.0	1.3	102	4.1	e
8	Skyla	6	83.3	16.7	0.0	132	10.3	e*
9	Selectra Pro	15	93.3	0.0	6.7	122	5.1	e
10	Autolyser/DiaSys	20	100.0	0.0	0.0	119	3.3	e
11	Other methods	5	100.0	0.0	0.0	126	2.5	e

One result was submitted but not published because the method group was too small. (<4 results per group)

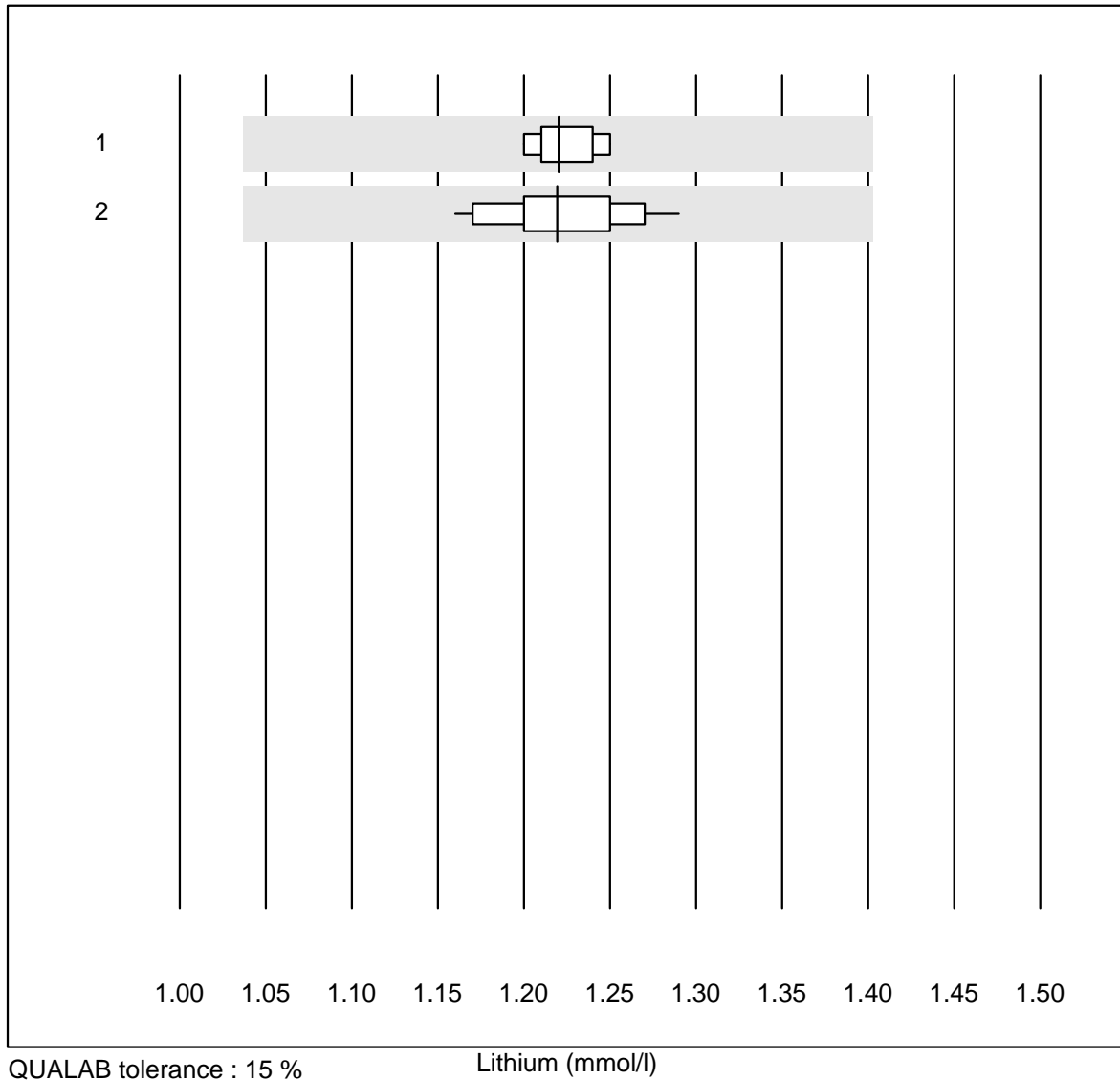
Triglycerides



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	25	100.0	0.0	0.0	2.39	5.2	e
2	Cobas	23	100.0	0.0	0.0	2.49	2.2	e
3	Reflotron	53	86.8	7.5	5.7	3.42	9.1	e
4	Fuji Dri-Chem	898	98.4	0.3	1.3	3.00	4.2	e
5	Spotchem SP-4430	71	98.6	0.0	1.4	1.60	5.7	e
6	Spotchem D-Concept	397	96.7	0.0	3.3	1.66	4.3	e
7	Piccolo	30	96.7	0.0	3.3	2.76	2.3	e
8	Cholestech LDX	306	99.0	0.3	0.7	2.37	3.8	e
9	Selectra Pro	12	91.7	0.0	8.3	2.52	3.4	e
10	Autolyser/DiaSys	20	95.0	5.0	0.0	2.36	7.3	e

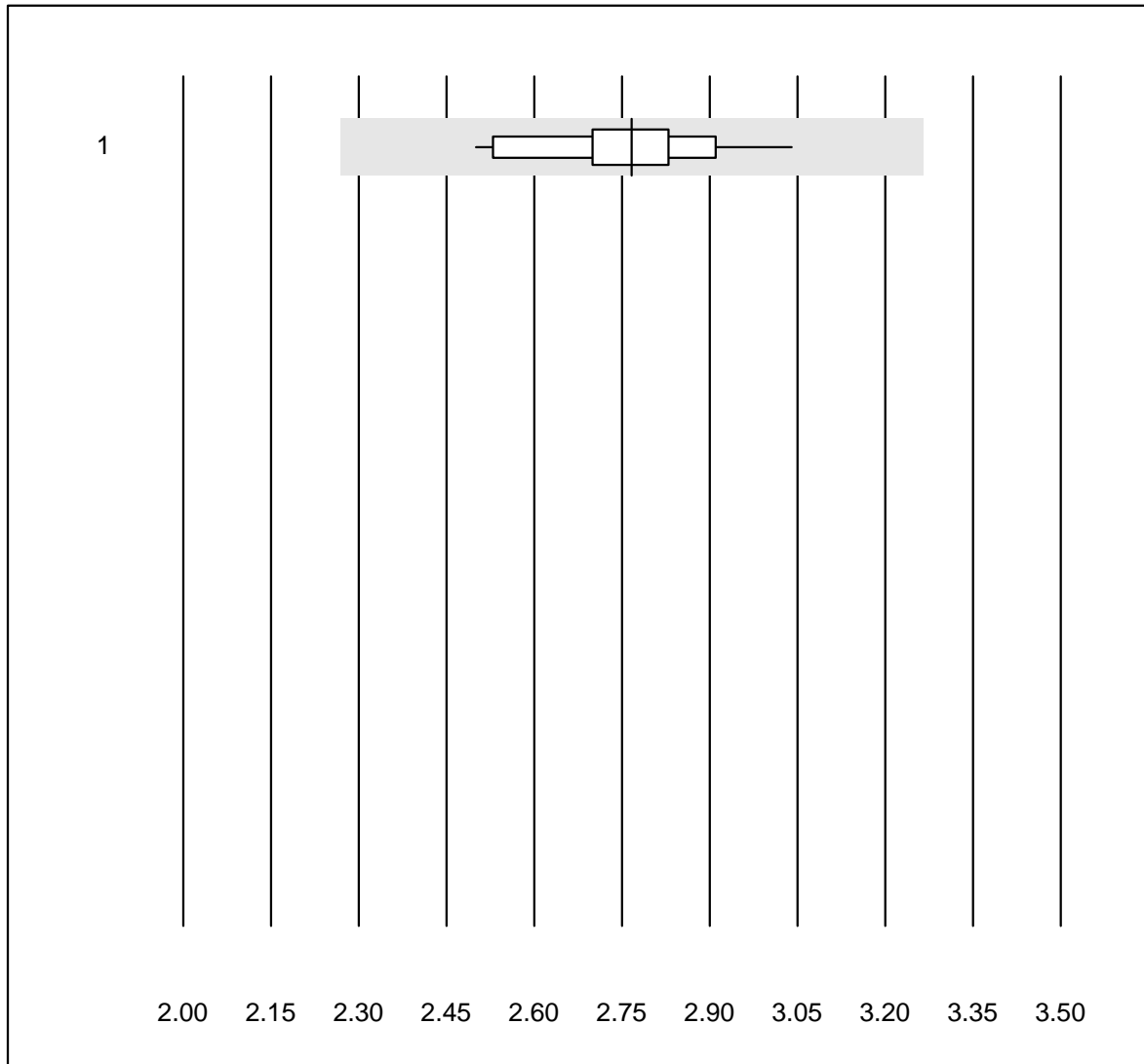
3 additional results were submitted, but not published, because the Method groups were too small. (<4 results per group)

Lithium



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas Integra 800/40	5	100.0	0.0	0.0	1.22	1.7	e
2	Other methods	18	100.0	0.0	0.0	1.22	3.0	e

Lactate



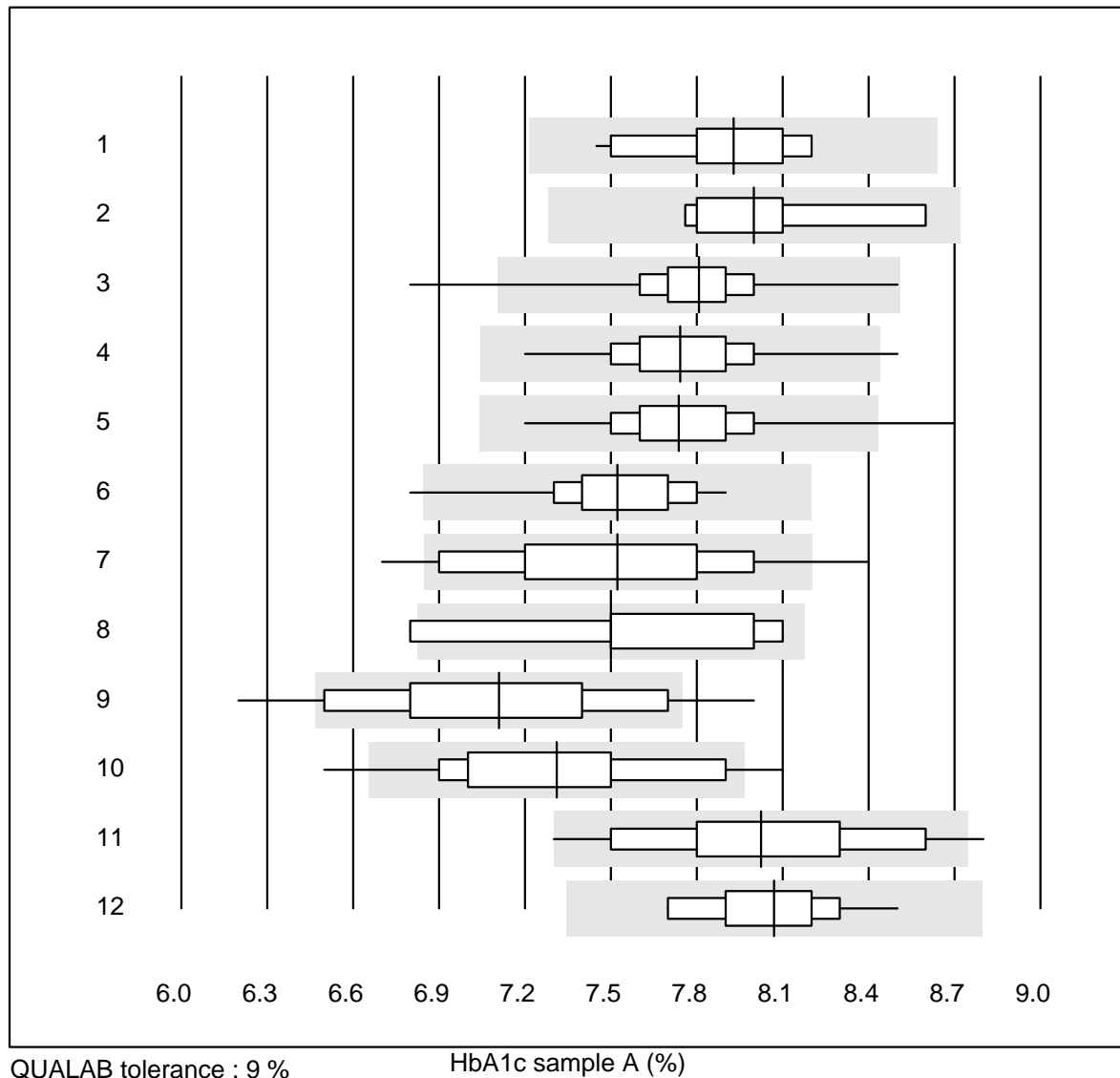
QUALAB tolerance : 18 %

Lactate (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	15	100.0	0.0	0.0	2.77	4.8	e

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

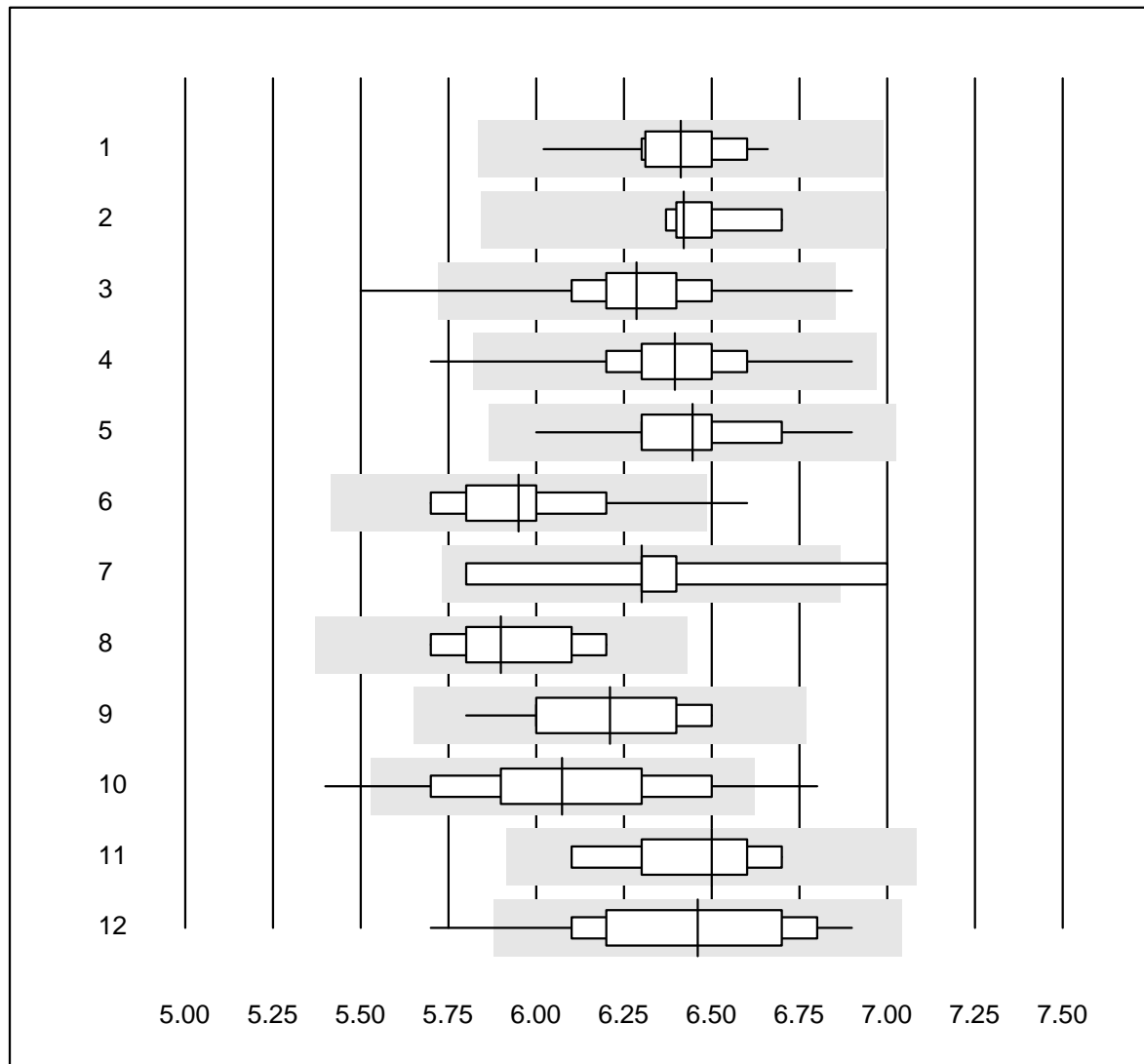
HbA1c sample A



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Roche, Cobas	16	93.7	0.0	6.3	7.9	2.9	e
2	HPLC	8	100.0	0.0	0.0	8.0	3.6	e*
3	Afinion	554	98.5	0.4	1.1	7.8	2.5	e
4	Cobas b101	148	98.6	1.4	0.0	7.7	2.9	e
5	DCA2000/Vantage	144	96.5	0.7	2.8	7.7	2.7	e
6	Celltac chemi	22	95.5	4.5	0.0	7.5	3.5	e
7	NycoCard	14	78.6	14.3	7.1	7.5	6.2	e*
8	Eurolyser	10	80.0	10.0	10.0	7.5	5.8	e*
9	A1c Now	226	79.2	11.5	9.3	7.1	5.8	e
10	AFIAS	64	87.5	7.8	4.7	7.3	5.2	e
11	Others	26	84.6	7.7	7.7	8.0	4.9	e
12	Spinit	10	100.0	0.0	0.0	8.1	2.9	e

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

HbA1c sample B



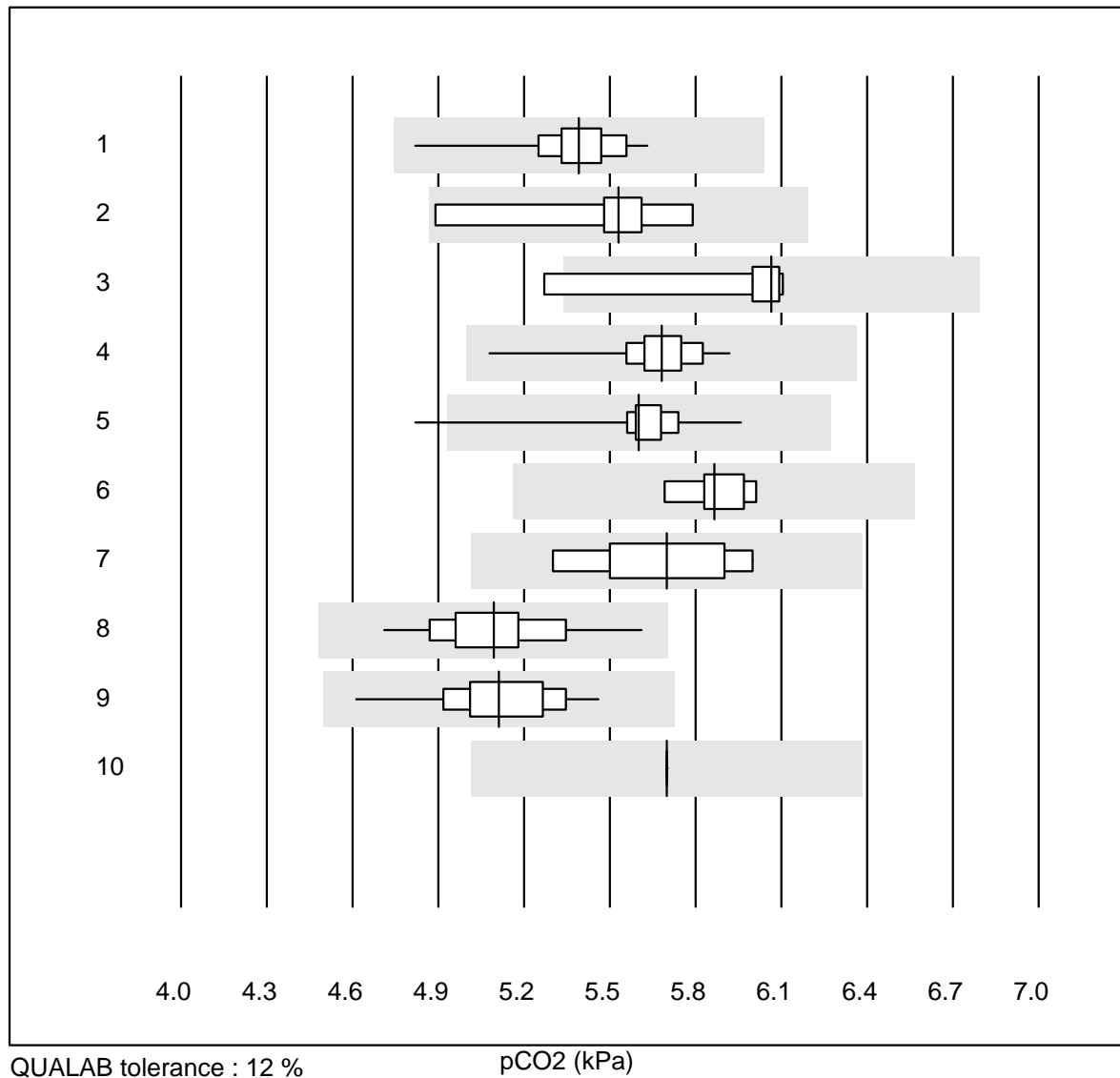
QUALAB tolerance : 9 %

HbA1c sample B (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Roche, Cobas	15	100.0	0.0	0.0	6.4	2.4	e
2	HPLC	8	100.0	0.0	0.0	6.4	1.8	e
3	Afinion	780	99.4	0.6	0.0	6.3	2.6	e
4	Cobas b101	167	99.4	0.6	0.0	6.4	2.8	e
5	DCA2000/Vantage	228	98.7	0.0	1.3	6.4	2.6	e
6	Celltac chemi	15	86.6	6.7	6.7	6.0	4.1	e
7	NycoCard	9	88.9	11.1	0.0	6.3	5.1	e*
8	Eurolyser	7	85.7	0.0	14.3	5.9	3.3	e*
9	A1c Now	11	100.0	0.0	0.0	6.2	3.8	e*
10	AFIAS	98	92.9	6.1	1.0	6.1	5.0	e
11	Spinit	7	100.0	0.0	0.0	6.5	3.1	e*
12	Others	21	90.4	4.8	4.8	6.5	4.7	e

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

pCO₂

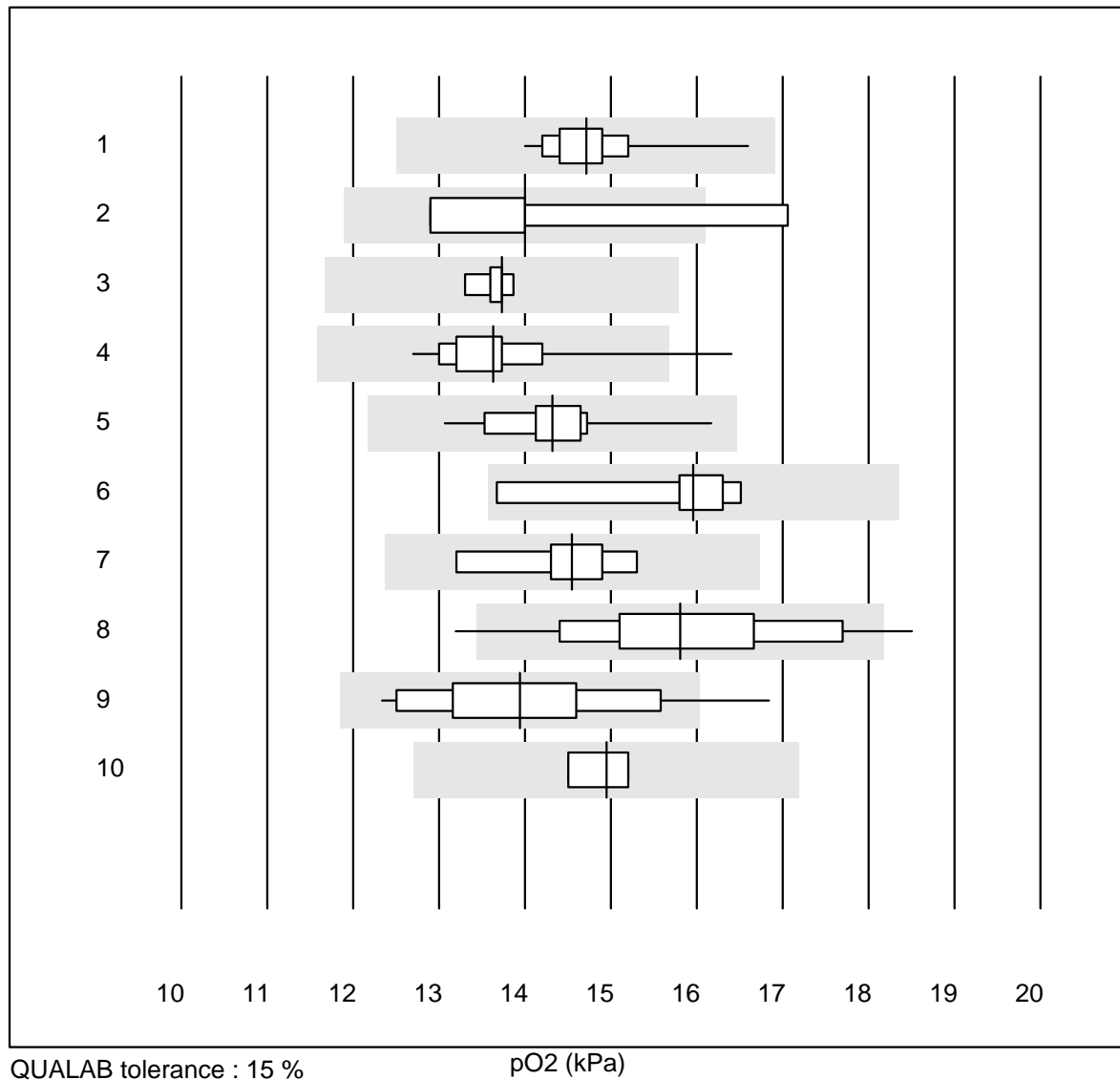


No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	96	100.0	0.0	0.0	5.39	2.4	e
2	ABL80 FLEX	5	100.0	0.0	0.0	5.53	6.2	e*
3	ABL80 FLEX CO-OX / O	6	83.3	16.7	0.0	6.07	5.5	e*
4	ABL90 FLEX / PLUS	101	99.0	0.0	1.0	5.68	2.1	e
5	Cobas b 123	12	91.7	8.3	0.0	5.60	4.8	e
6	Cobas b 221	9	100.0	0.0	0.0	5.87	1.7	e
7	GEM	7	100.0	0.0	0.0	5.70	4.4	e*
8	iStat	41	100.0	0.0	0.0	5.09	3.7	e
9	EPOC	52	96.2	0.0	3.8	5.11	3.3	e
10	IL	4	100.0	0.0	0.0	5.70	0.0	e

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

K04 Blood gases

pO2

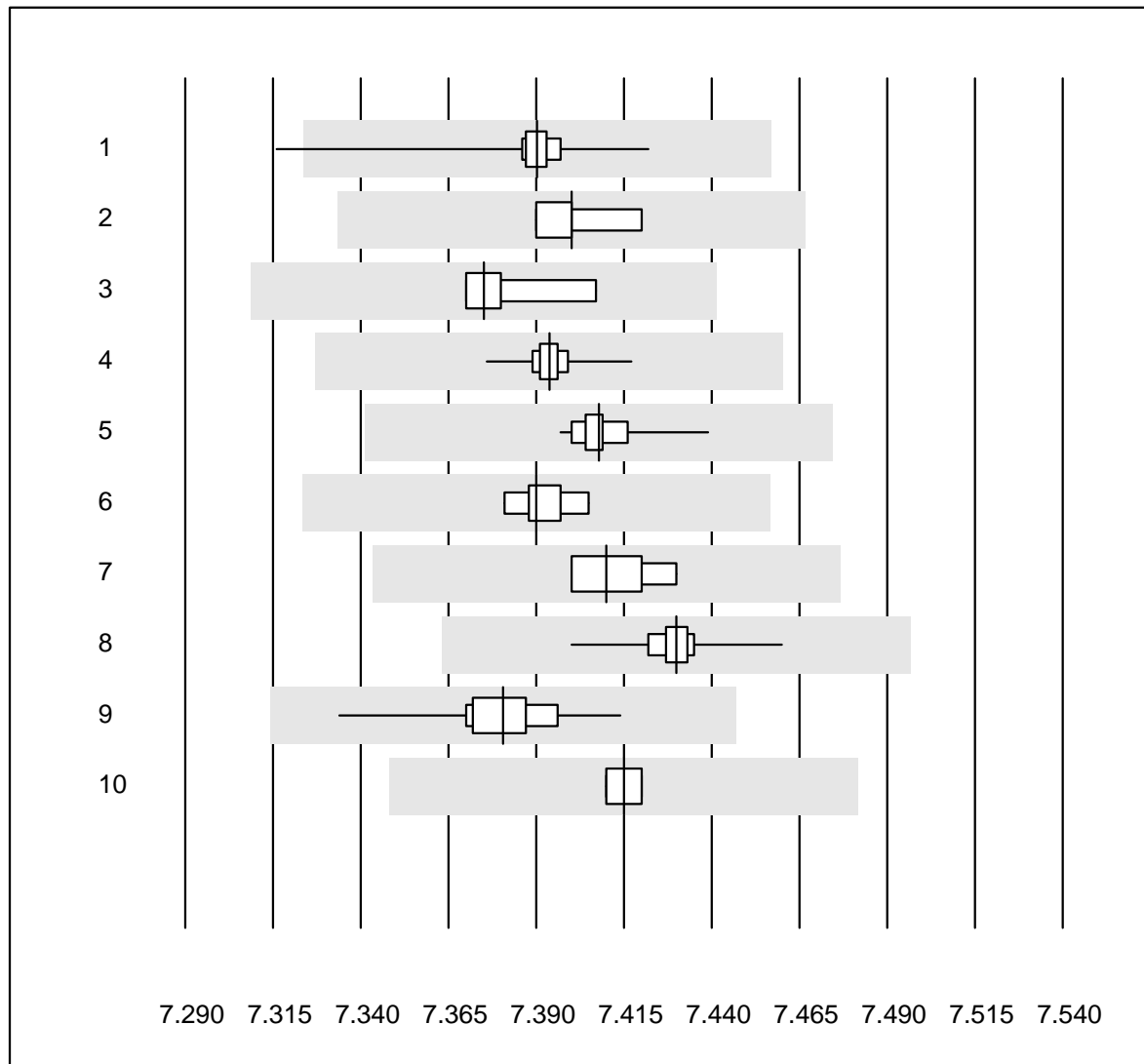


No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	95	98.9	0.0	1.1	14.71	3.3	e
2	ABL80 FLEX	5	60.0	20.0	20.0	14.00	12.8	e*
3	ABL80 FLEX CO-OX / O	6	83.3	0.0	16.7	13.73	1.6	e
4	ABL90 FLEX / PLUS	102	92.2	2.9	4.9	13.63	5.2	e
5	Cobas b 123	14	92.9	0.0	7.1	14.32	5.1	e
6	Cobas b 221	6	100.0	0.0	0.0	15.96	6.6	e*
7	GEM	6	100.0	0.0	0.0	14.55	4.9	e*
8	iStat	39	92.3	7.7	0.0	15.80	7.8	e
9	EPOC	51	90.2	5.9	3.9	13.94	8.1	e
10	IL	4	100.0	0.0	0.0	14.95	2.4	e

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

K04 Blood gases

pH



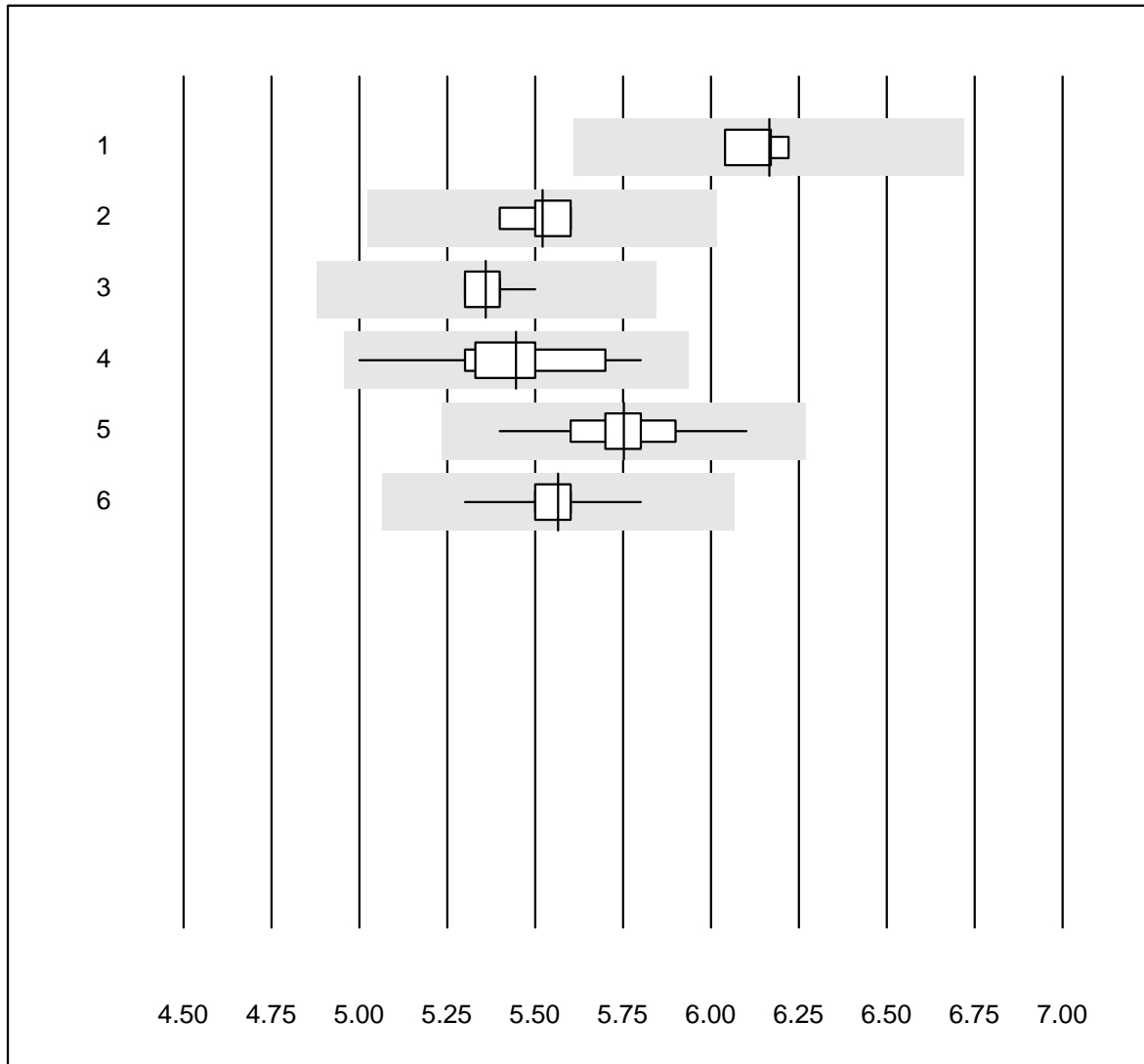
QUALAB tolerance : 1 %

pH ()

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	95	98.9	1.1	0.0	7.39	0.1	e
2	ABL80 FLEX	5	100.0	0.0	0.0	7.40	0.2	e
3	ABL80 FLEX CO-OX / O	6	100.0	0.0	0.0	7.38	0.2	e
4	ABL90 FLEX / PLUS	102	100.0	0.0	0.0	7.39	0.1	e
5	Cobas b 123	13	100.0	0.0	0.0	7.41	0.1	e
6	Cobas b 221	9	100.0	0.0	0.0	7.39	0.1	e
7	GEM	7	100.0	0.0	0.0	7.41	0.1	e
8	iStat	42	100.0	0.0	0.0	7.43	0.1	e
9	EPOC	51	100.0	0.0	0.0	7.38	0.2	e
10	IL	4	100.0	0.0	0.0	7.42	0.1	e

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

Glucose BG



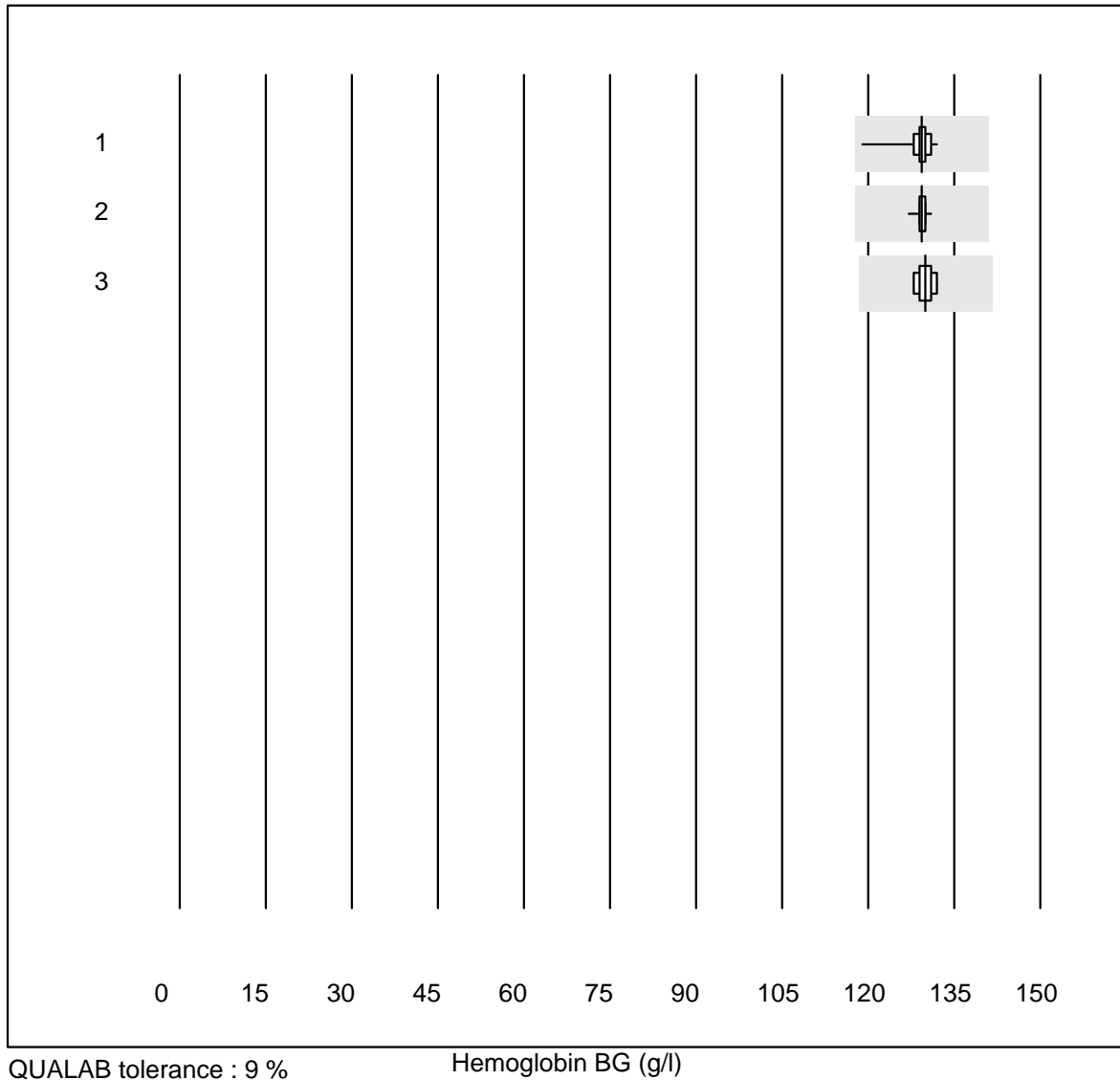
QUALAB tolerance : 9 %

Glucose BG (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b 221	4	100.0	0.0	0.0	6.2	1.2	e
2	Cobas b 123	10	100.0	0.0	0.0	5.5	1.1	e
3	iStat	10	100.0	0.0	0.0	5.4	1.3	e
4	EPOC	40	95.0	0.0	5.0	5.4	3.2	e
5	ABL700/800	87	100.0	0.0	0.0	5.8	2.2	e
6	ABL90 FLEX / PLUS	91	100.0	0.0	0.0	5.6	1.6	e

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

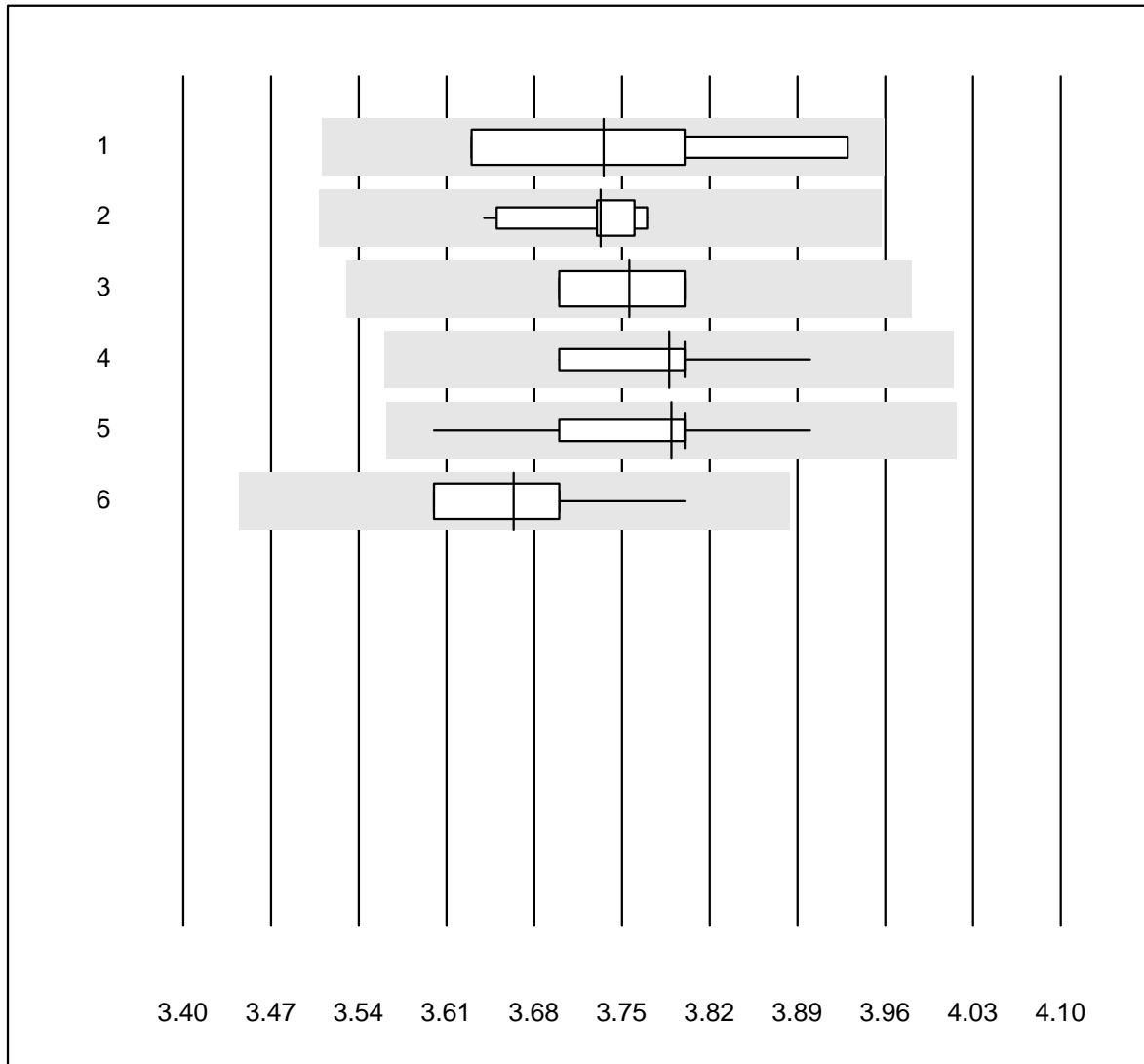
Hemoglobin BG



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	86	98.8	0.0	1.2	129.4	1.8	e
2	ABL90 FLEX / PLUS	88	96.6	0.0	3.4	129.4	0.5	e
3	ABL80 FLEX CO-OX / O	5	100.0	0.0	0.0	130.0	1.2	e

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

Potassium BG



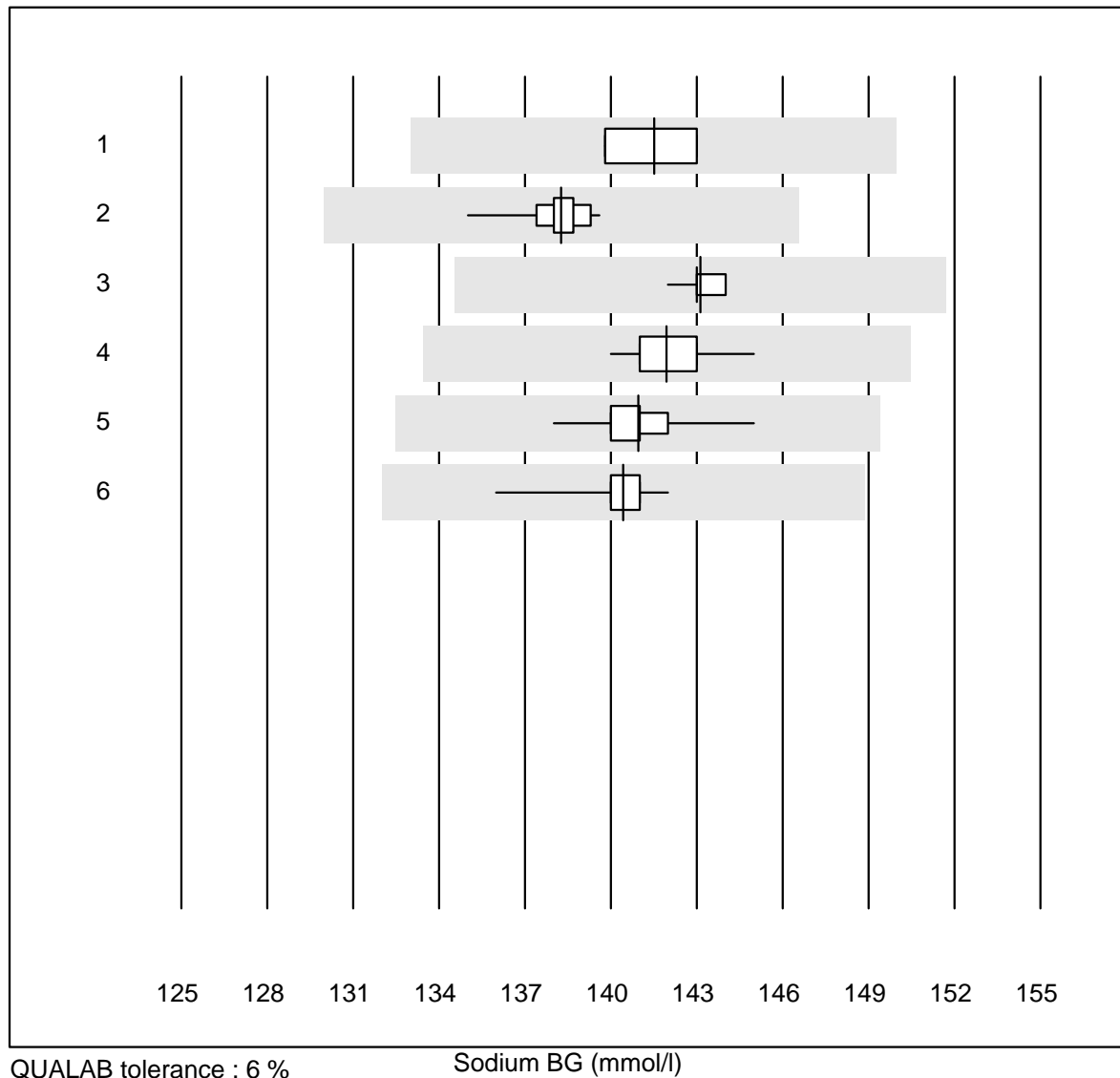
QUALAB tolerance : 6 %

Potassium BG (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b 221	4	100.0	0.0	0.0	3.7	3.6	e*
2	Cobas b 123	17	100.0	0.0	0.0	3.7	1.1	e
3	iStat	18	100.0	0.0	0.0	3.8	1.4	e
4	EPOC	45	100.0	0.0	0.0	3.8	1.0	e
5	ABL700/800	88	97.7	0.0	2.3	3.8	1.2	e
6	ABL90 FLEX / PLUS	100	100.0	0.0	0.0	3.7	1.6	e

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

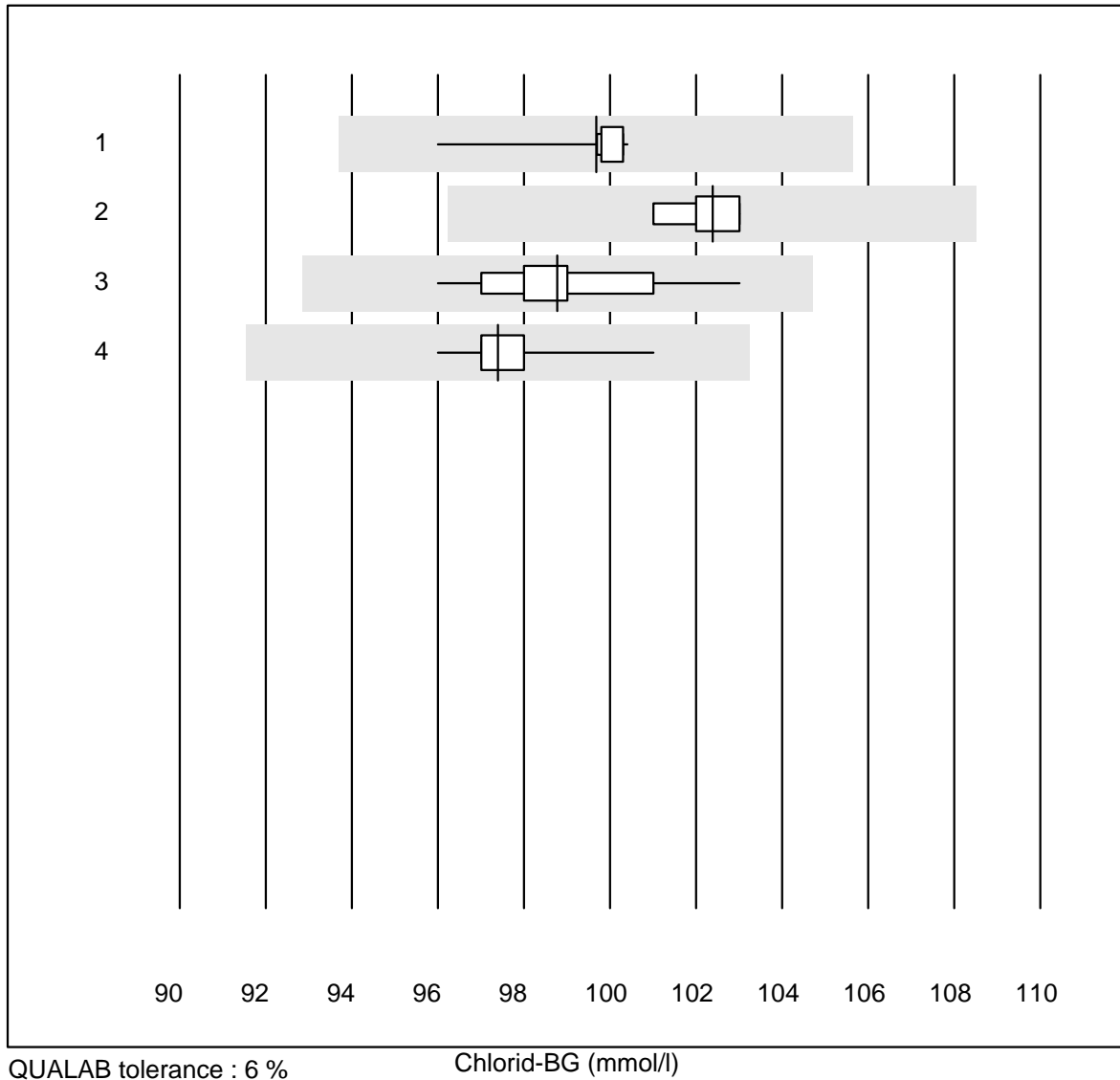
Sodium BG



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b 221	4	100.0	0.0	0.0	141.5	1.3	e
2	Cobas b 123	17	100.0	0.0	0.0	138.3	0.7	e
3	iStat	18	94.4	0.0	5.6	143.1	0.3	e
4	EPOC	43	100.0	0.0	0.0	142.0	0.8	e
5	ABL700/800	86	100.0	0.0	0.0	141.0	0.8	e
6	ABL90 FLEX / PLUS	99	100.0	0.0	0.0	140.4	0.5	e

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

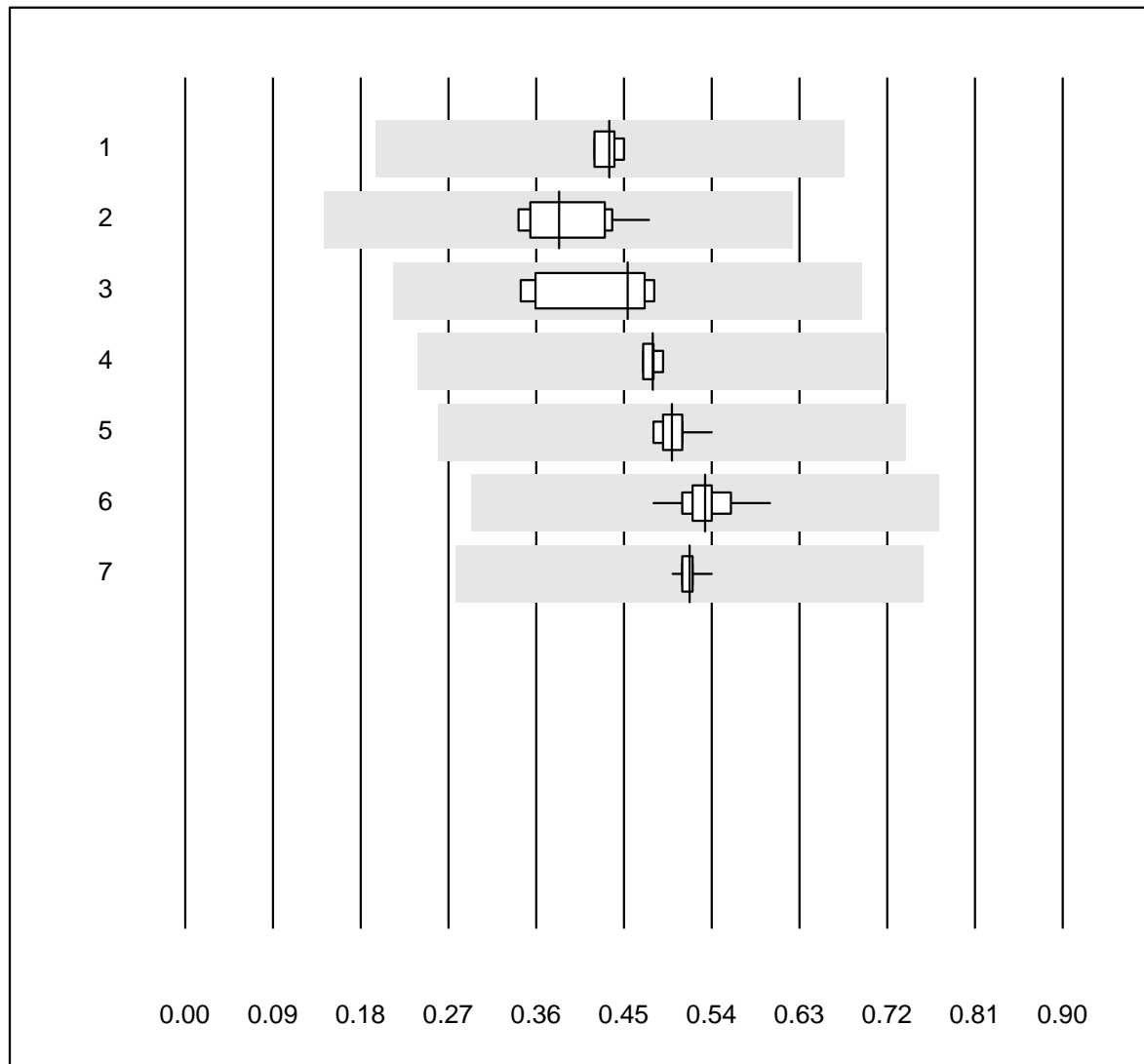
Chlorid-BG



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b 123	11	100.0	0.0	0.0	99.7	1.2	e
2	EPOC	13	100.0	0.0	0.0	102.4	0.8	e
3	ABL700/800	79	100.0	0.0	0.0	98.8	1.3	e
4	ABL90 FLEX / PLUS	91	100.0	0.0	0.0	97.4	0.7	e

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

Calcium-BG



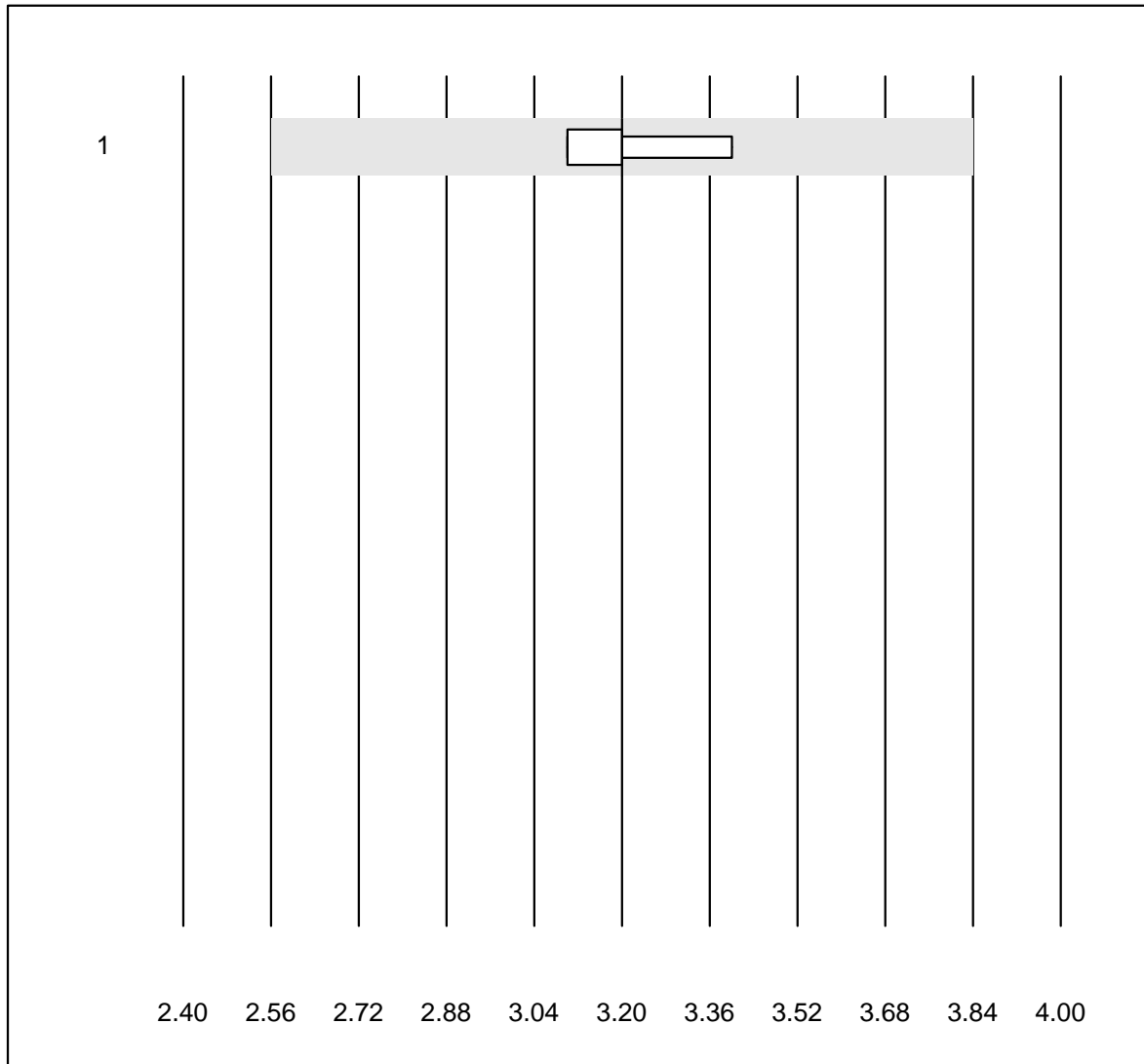
MQ tolerance : 12 %
(< 2.00: +/- 0.24 mmol/l)

Calcium-BG (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	GEM	4	100.0	0.0	0.0	0.44	3.0	e*
2	Cobas b123	10	100.0	0.0	0.0	0.38	12.1	e*
3	Cobas	7	100.0	0.0	0.0	0.45	12.9	e*
4	iStat	12	100.0	0.0	0.0	0.48	1.4	e
5	EPOC	40	97.5	0.0	2.5	0.50	2.9	e
6	ABL700/800	88	100.0	0.0	0.0	0.53	3.7	e
7	ABL90 FLEX / PLUS	98	99.0	0.0	1.0	0.52	1.2	e

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

FHHb



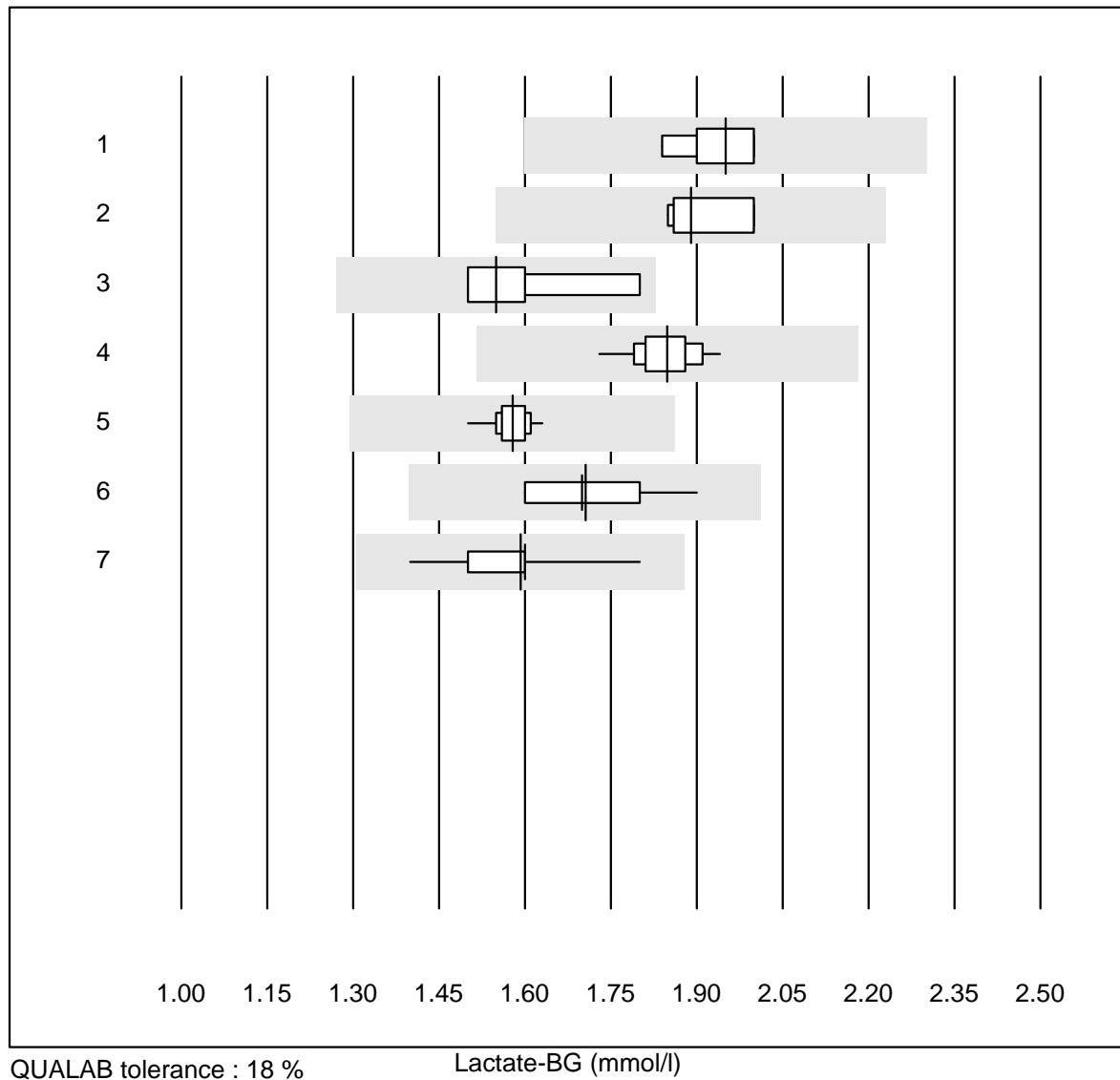
MQ tolerance : 20 %

FHHb (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL90 FLEX / PLUS	4	100.0	0.0	0.0	3.200	3.9	e

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

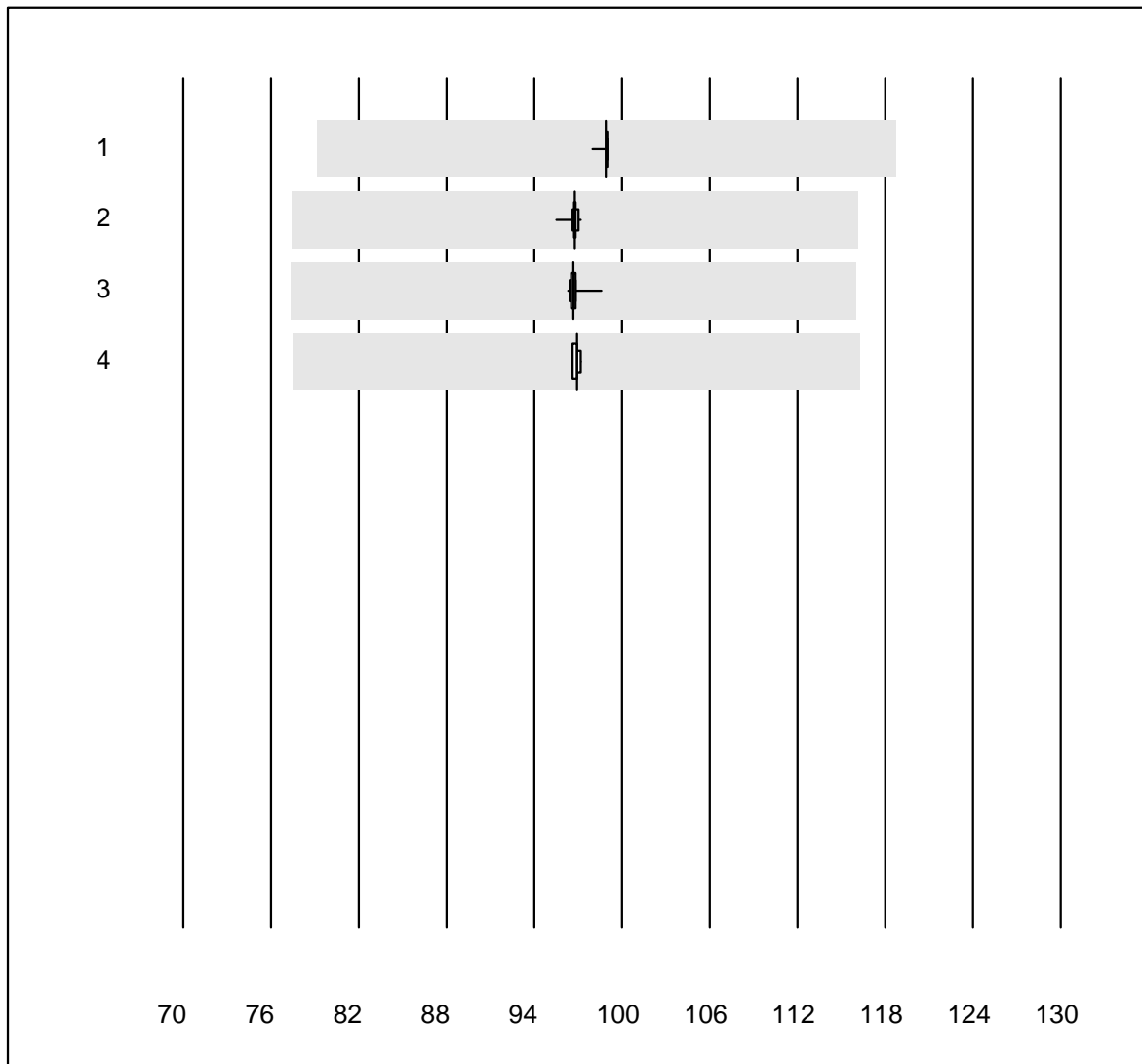
Lactate-BG



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b123	8	100.0	0.0	0.0	1.95	3.3	e
2	Cobas	6	100.0	0.0	0.0	1.89	3.6	e
3	IL	4	100.0	0.0	0.0	1.55	8.8	e*
4	EPOC	39	100.0	0.0	0.0	1.85	2.6	e
5	iStat	12	100.0	0.0	0.0	1.58	2.1	e
6	ABL700/800	88	100.0	0.0	0.0	1.71	3.1	e
7	ABL90 FLEX / PLUS	95	100.0	0.0	0.0	1.59	3.5	e

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

sO2 OR

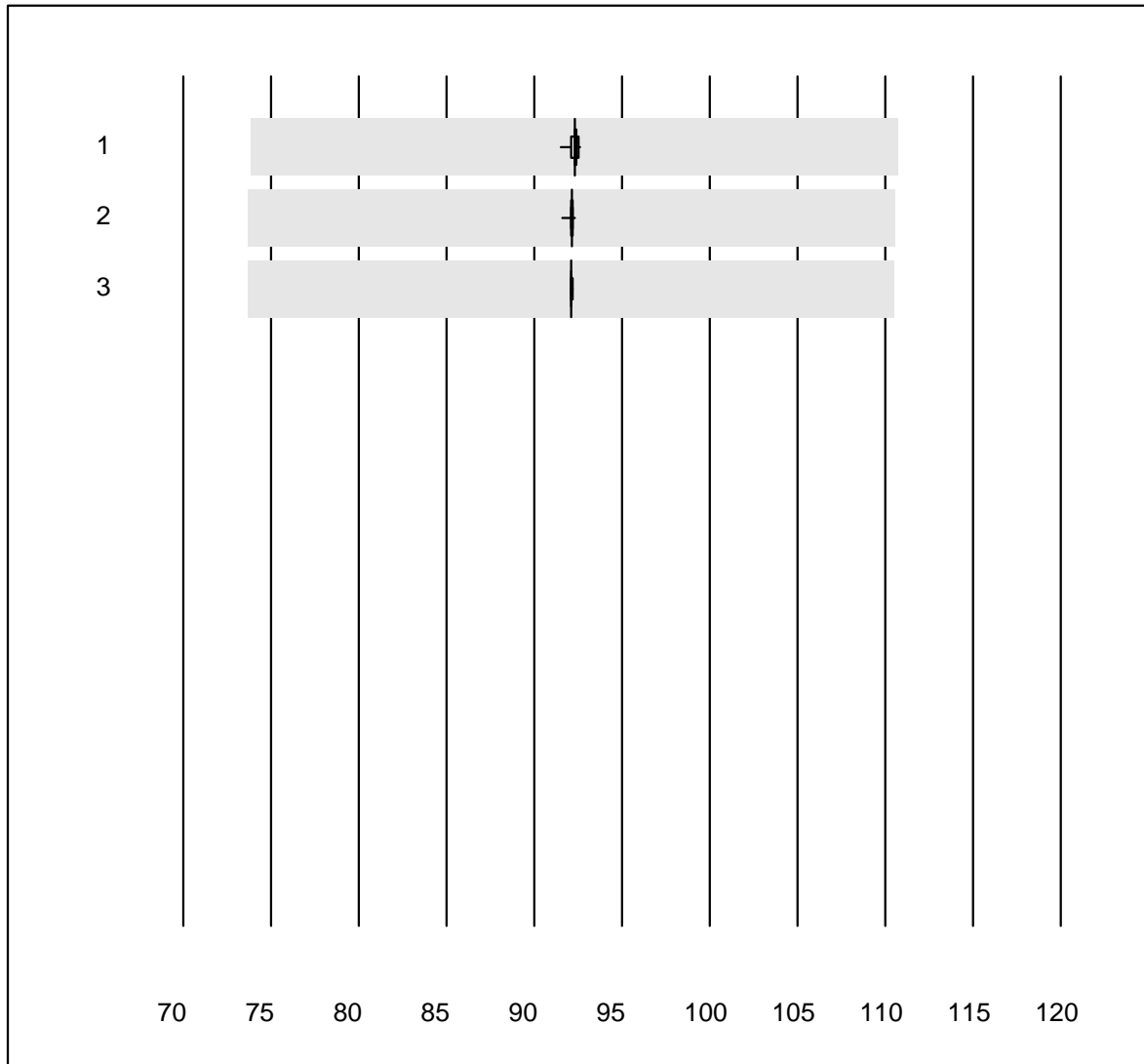


MQ tolerance : 20 %

sO2 OR (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	iStat	11	100.0	0.0	0.0	98.909	0.3	e
2	ABL700/800	76	100.0	0.0	0.0	96.759	0.2	e
3	ABL90 FLEX / PLUS	80	100.0	0.0	0.0	96.674	0.3	e
4	ABL80 FLEX CO-OX / O	4	100.0	0.0	0.0	96.900	0.3	e

FO2Hb OR

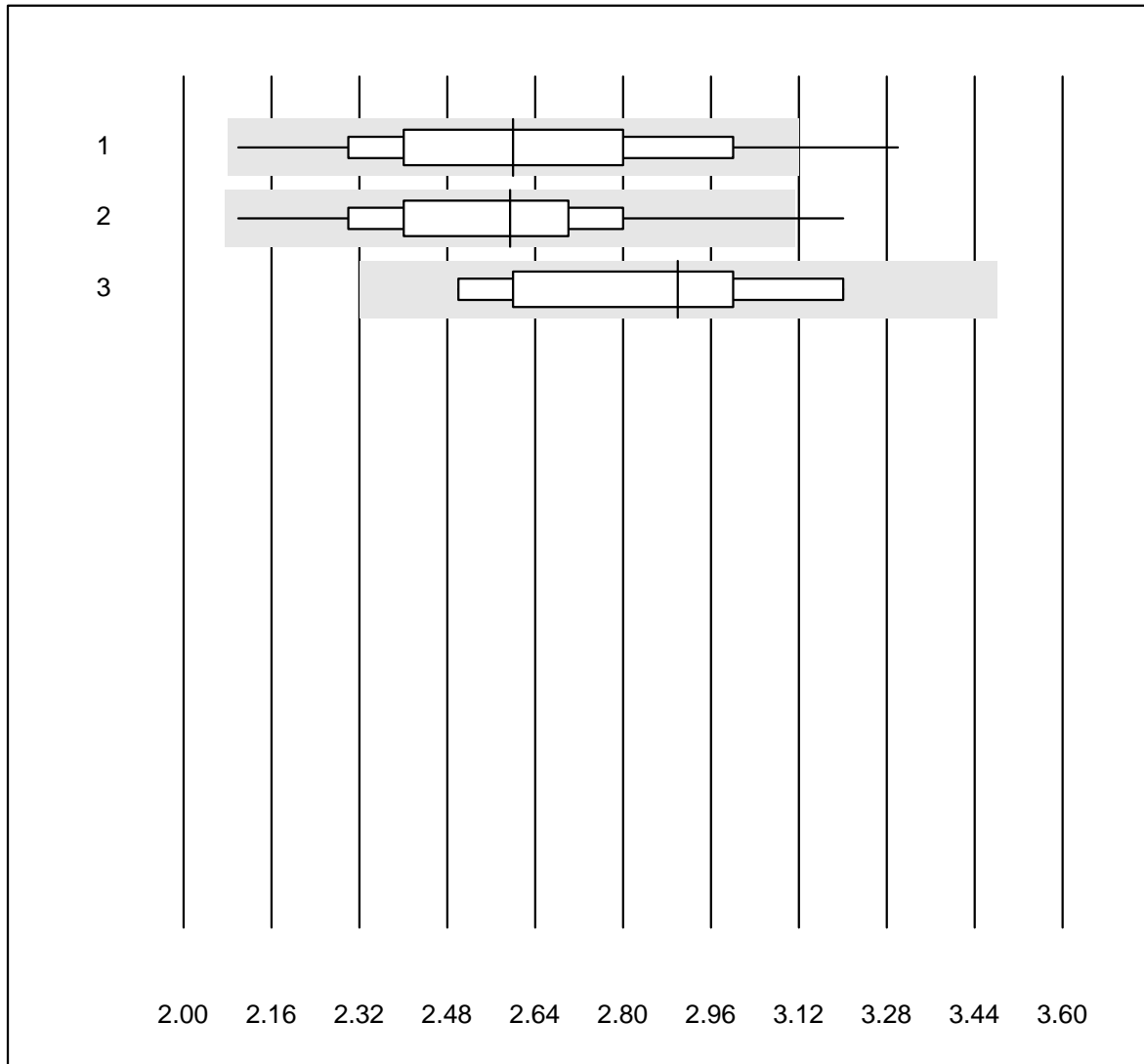


MQ tolerance : 20 %

FO2Hb OR (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	75	100.0	0.0	0.0	92.309	0.2	e
2	ABL90 FLEX / PLUS	80	100.0	0.0	0.0	92.145	0.1	e
3	ABL80 FLEX CO-OX / O	5	100.0	0.0	0.0	92.100	0.0	e

FCOHb OR

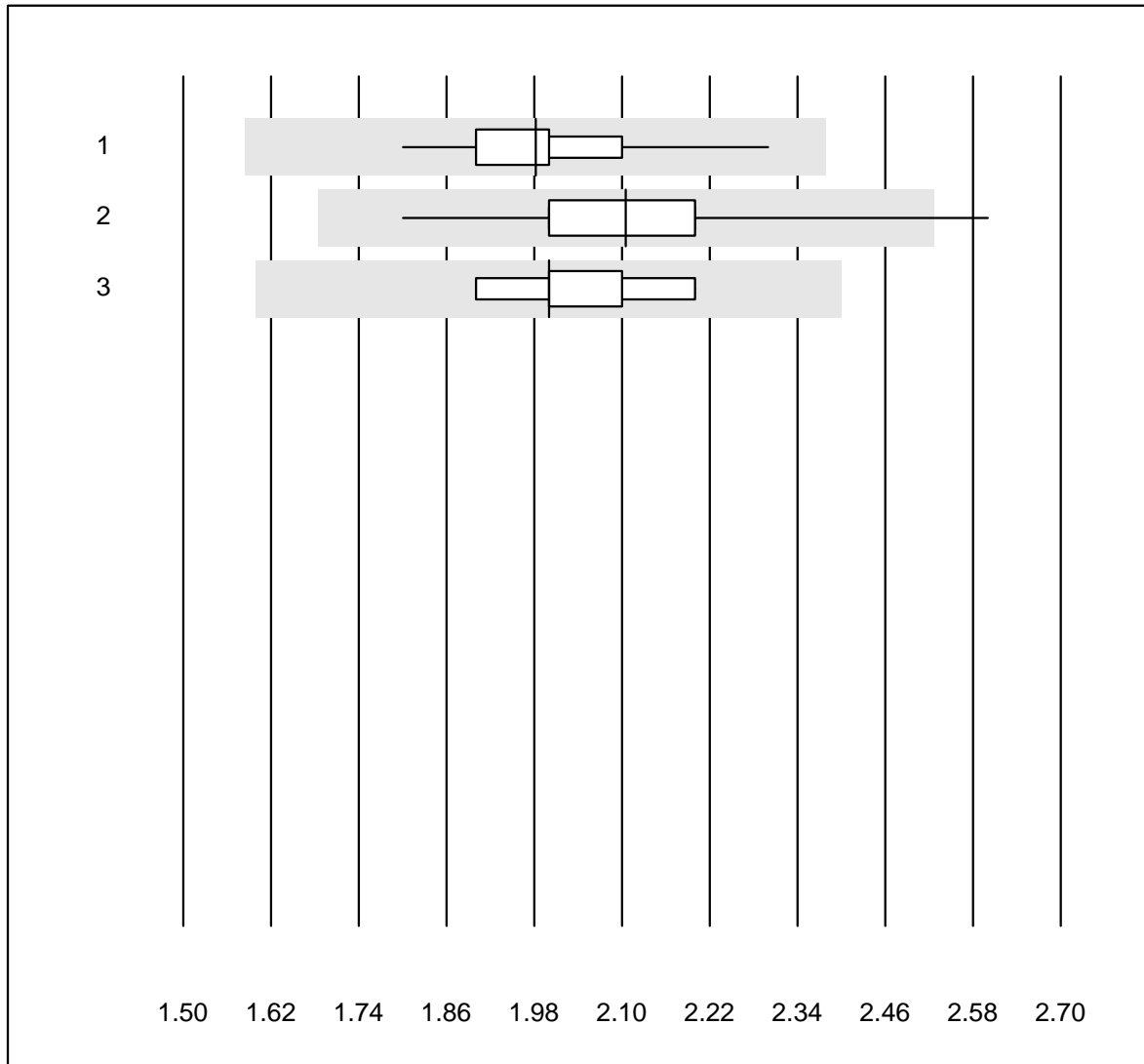


MQ tolerance : 20 %

FCOHb OR (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	77	96.1	2.6	1.3	2.600	10.2	e
2	ABL90 FLEX / PLUS	79	97.4	1.3	1.3	2.595	8.7	e
3	ABL80 FLEX CO-OX / O	6	100.0	0.0	0.0	2.900	9.1	e*

FMetHb OR

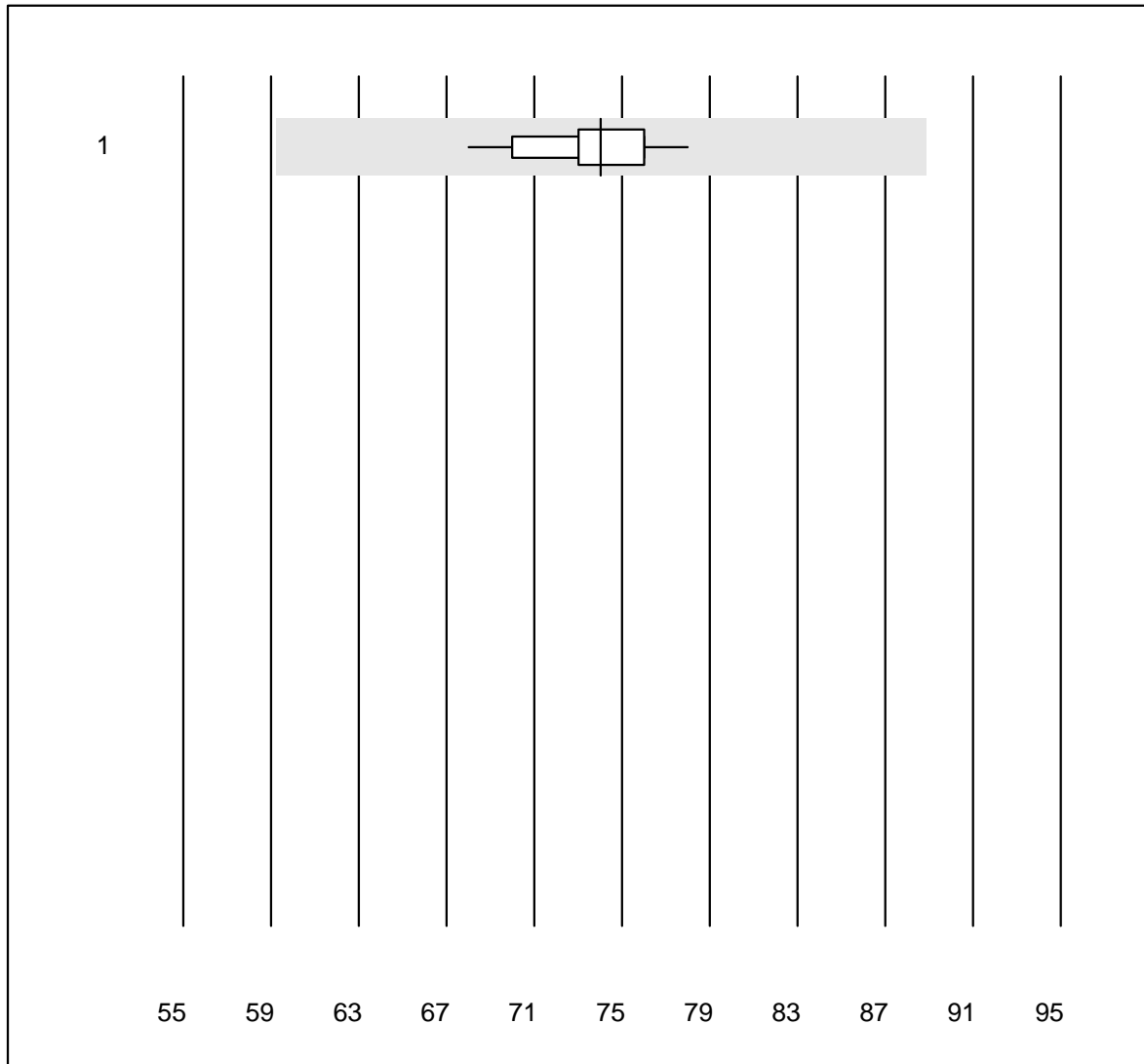


MQ tolerance : 20 %

FMetHb OR (%)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 ABL700/800	77	98.7	0.0	1.3	1.982	4.5	e
2 ABL90 FLEX / PLUS	79	98.7	1.3	0.0	2.105	5.2	e
3 ABL80 FLEX CO-OX / O	5	100.0	0.0	0.0	2.000	5.6	e*

FHbF OR



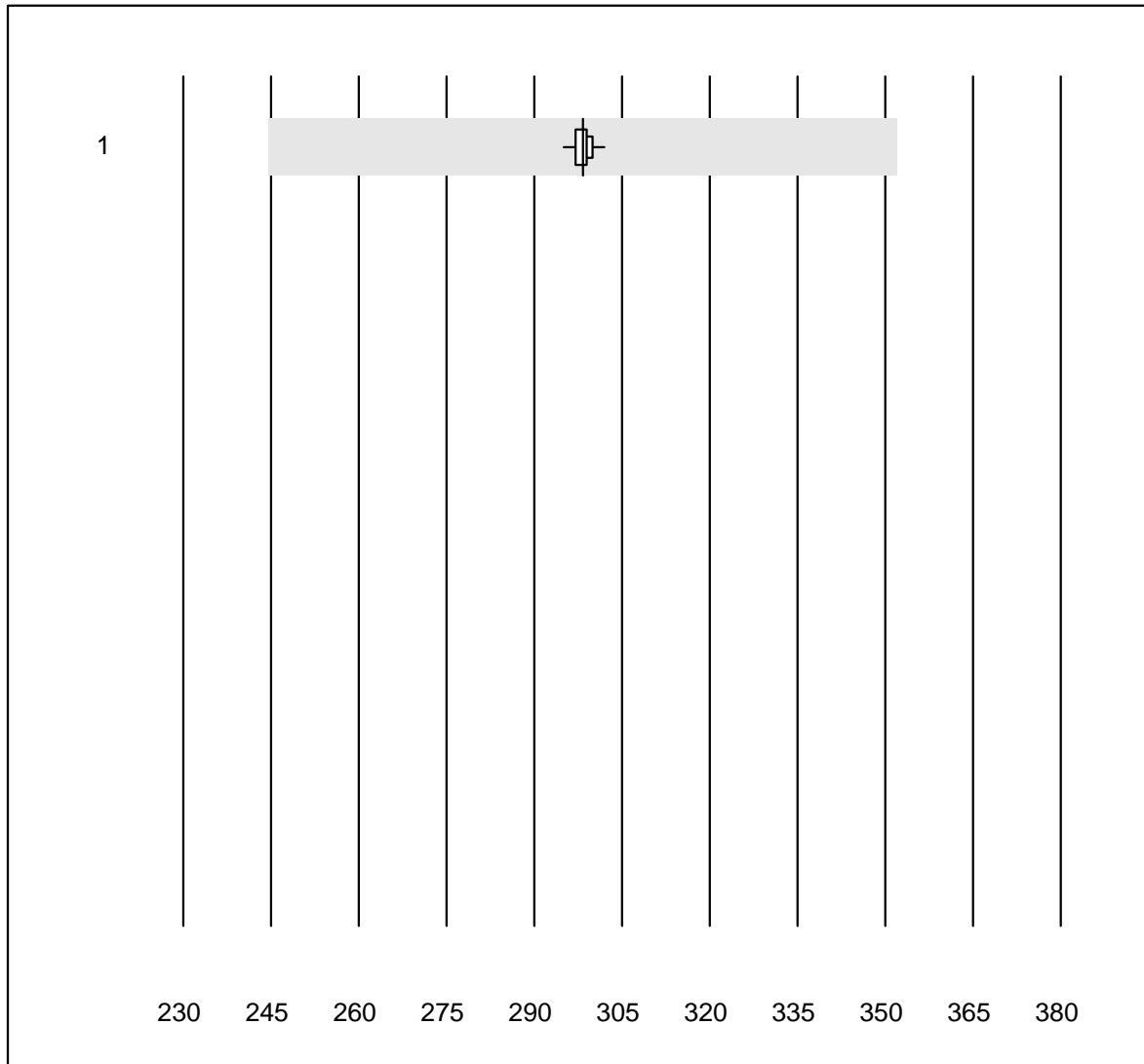
MQ tolerance : 20 %

FHbF OR (%)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL90 FLEX / PLUS	30	100.0	0.0	0.0	74.033	3.3	e

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

Bilirubin OR



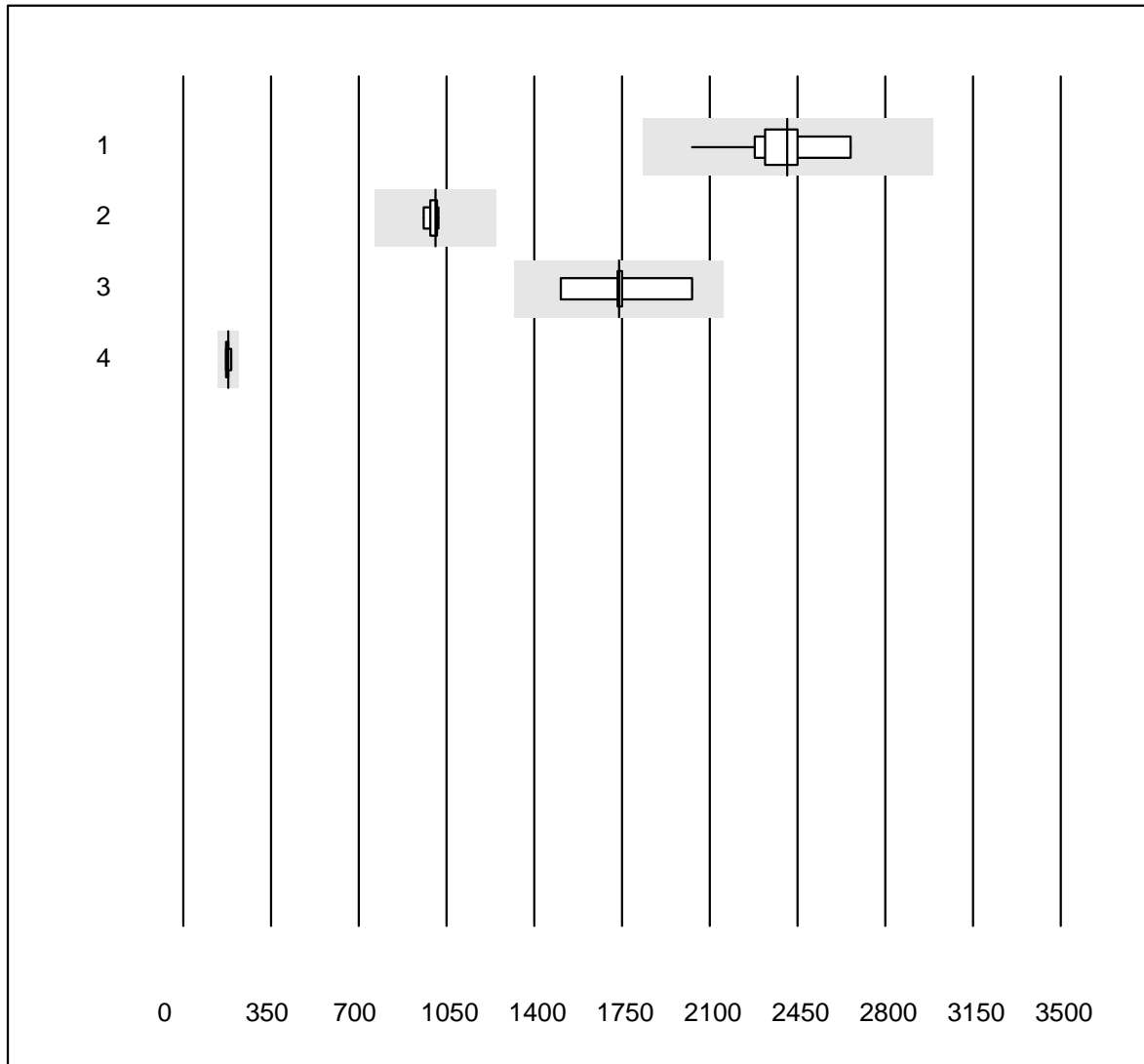
QUALAB tolerance : 18 %

Bilirubin OR ($\mu\text{mol/l}$)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL90 FLEX / PLUS	31	100.0	0.0	0.0	298.3	0.5	e

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

Troponin I



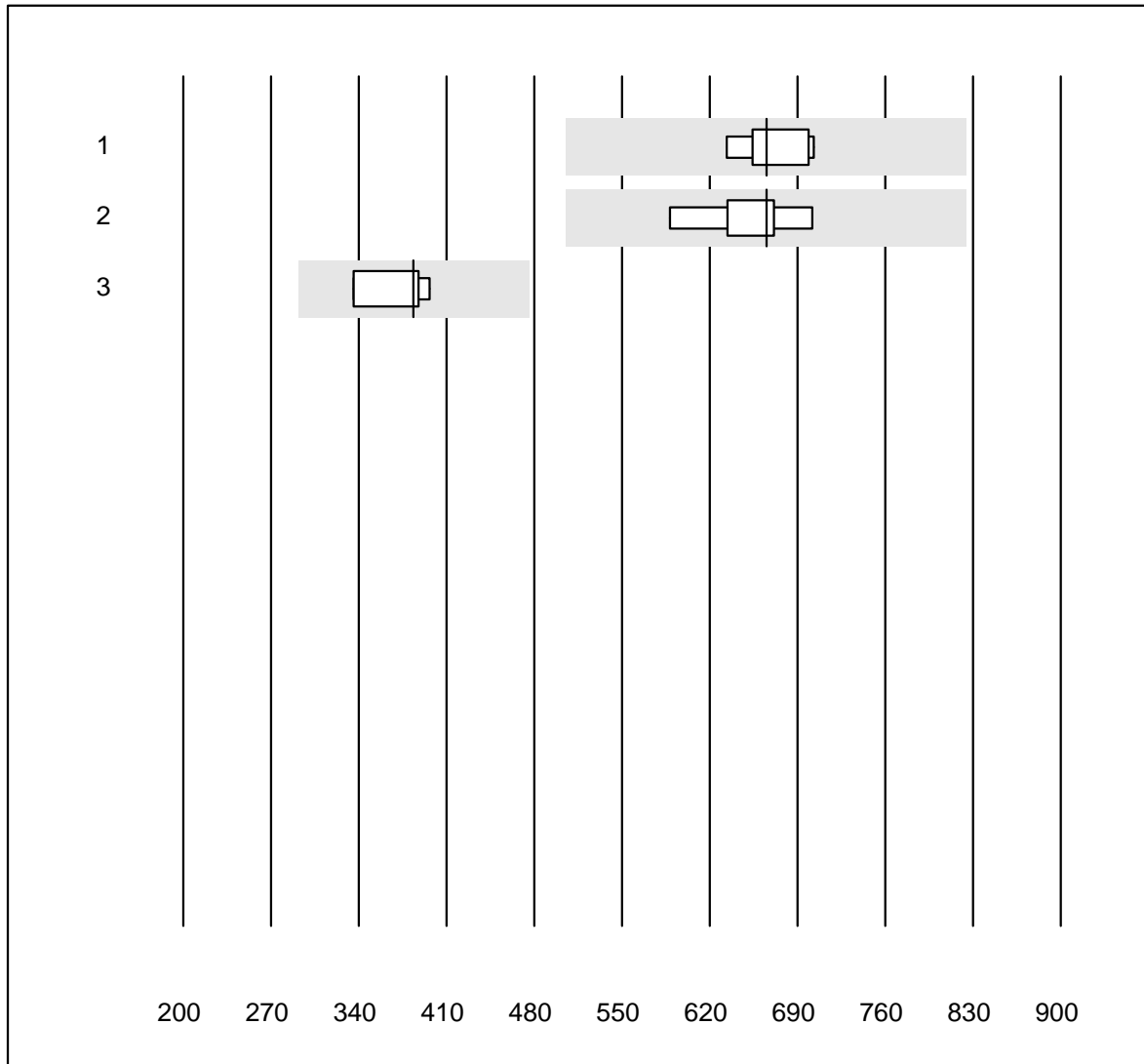
QUALAB tolerance : 24 %

Troponin I (ng/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Vidas	12	100.0	0.0	0.0	2409.7	7.0	e
2	Architect High Sensi	9	100.0	0.0	0.0	1006.9	2.3	e
3	Other methods	9	100.0	0.0	0.0	1739.0	8.3	e
4	AQT 90 FLEX	4	100.0	0.0	0.0	180.0	4.5	e

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

Troponin T



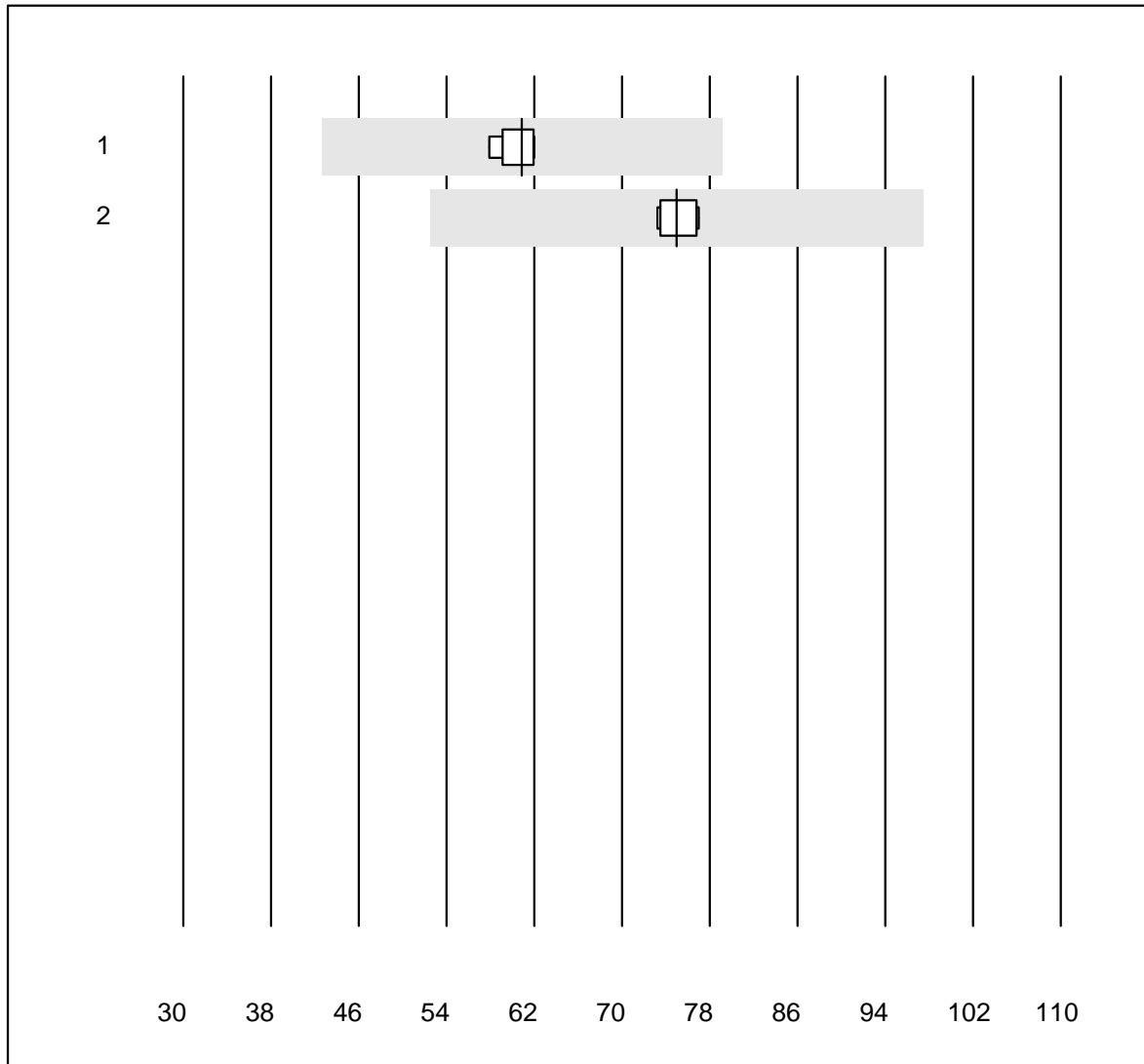
QUALAB tolerance : 24 %

Troponin T (ng/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas hs	7	100.0	0.0	0.0	665.00	3.7	e
2	Cobas hs STAT	8	100.0	0.0	0.0	665.00	5.5	e
3	Cobas E / Elecsys	4	100.0	0.0	0.0	383.70	7.2	e*

One result was submitted but not published because the method group was too small. (<4 results per group)

Myoglobin



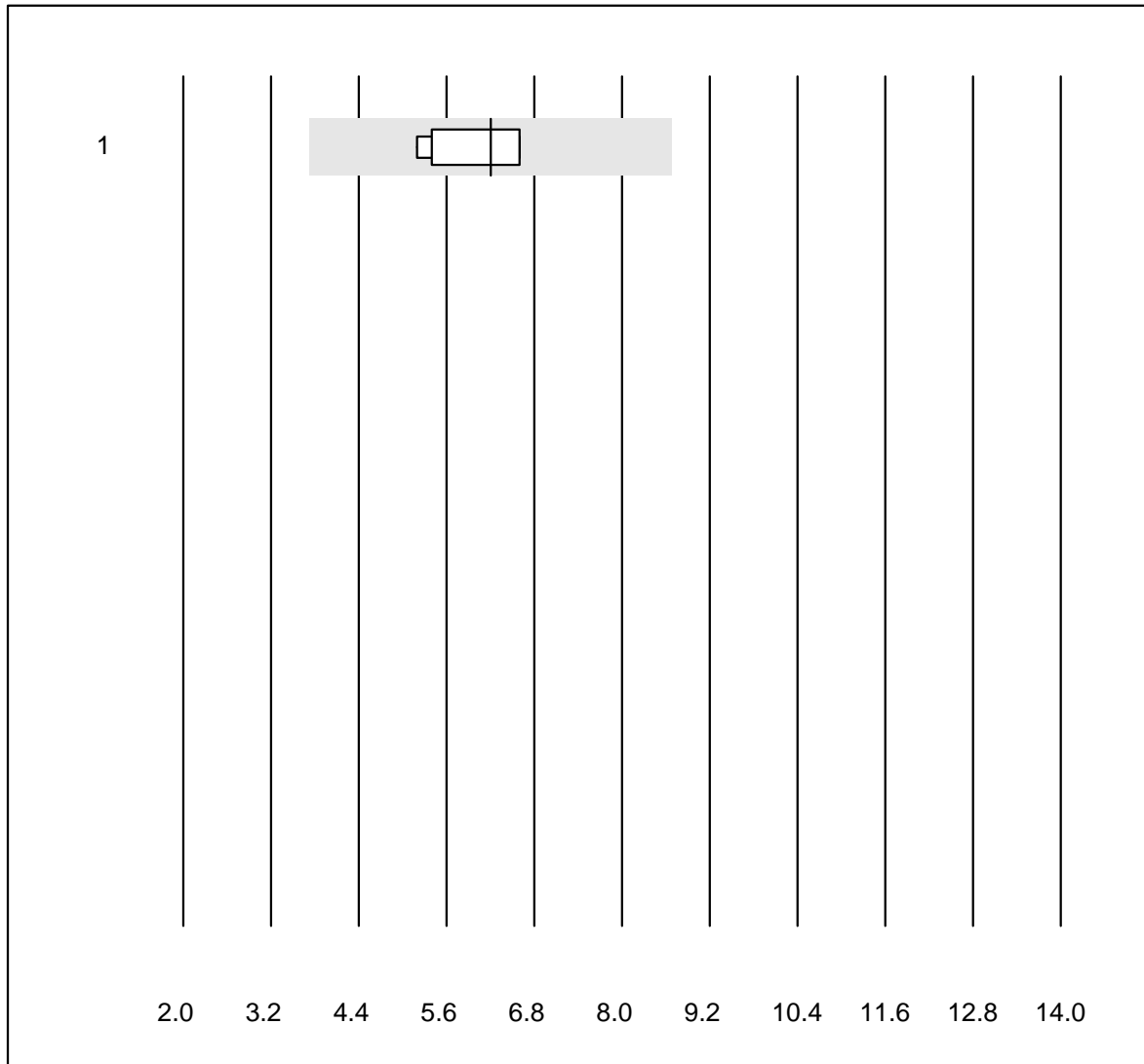
QUALAB tolerance : 30 %

Myoglobin (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	5	100.0	0.0	0.0	60.9	3.0	e
2	Architect	5	100.0	0.0	0.0	75.0	2.4	e

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

CK-MB mass



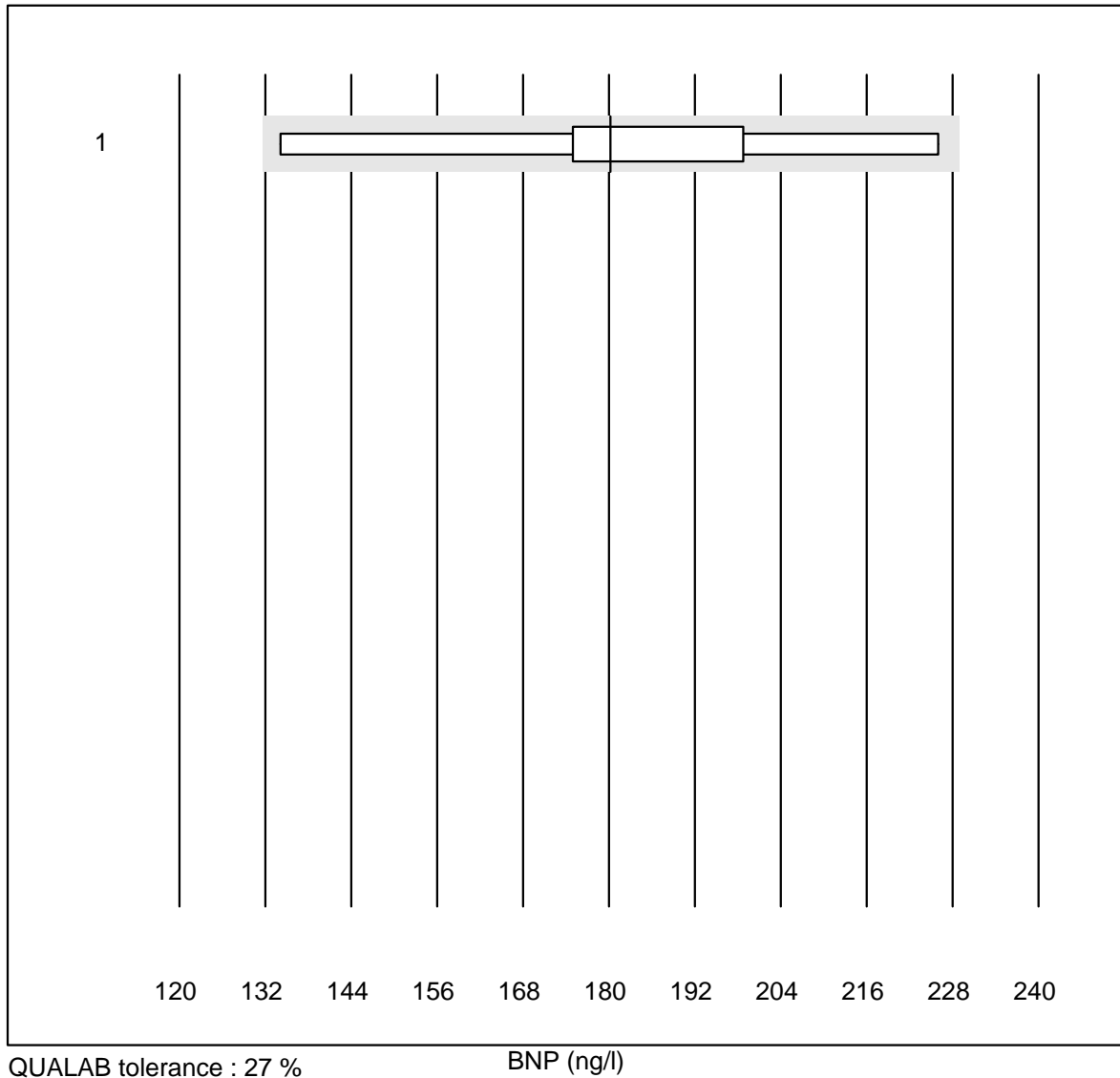
MQ tolerance : 40 %

CK-MB mass (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	5	100.0	0.0	0.0	6.2	11.1	e*

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

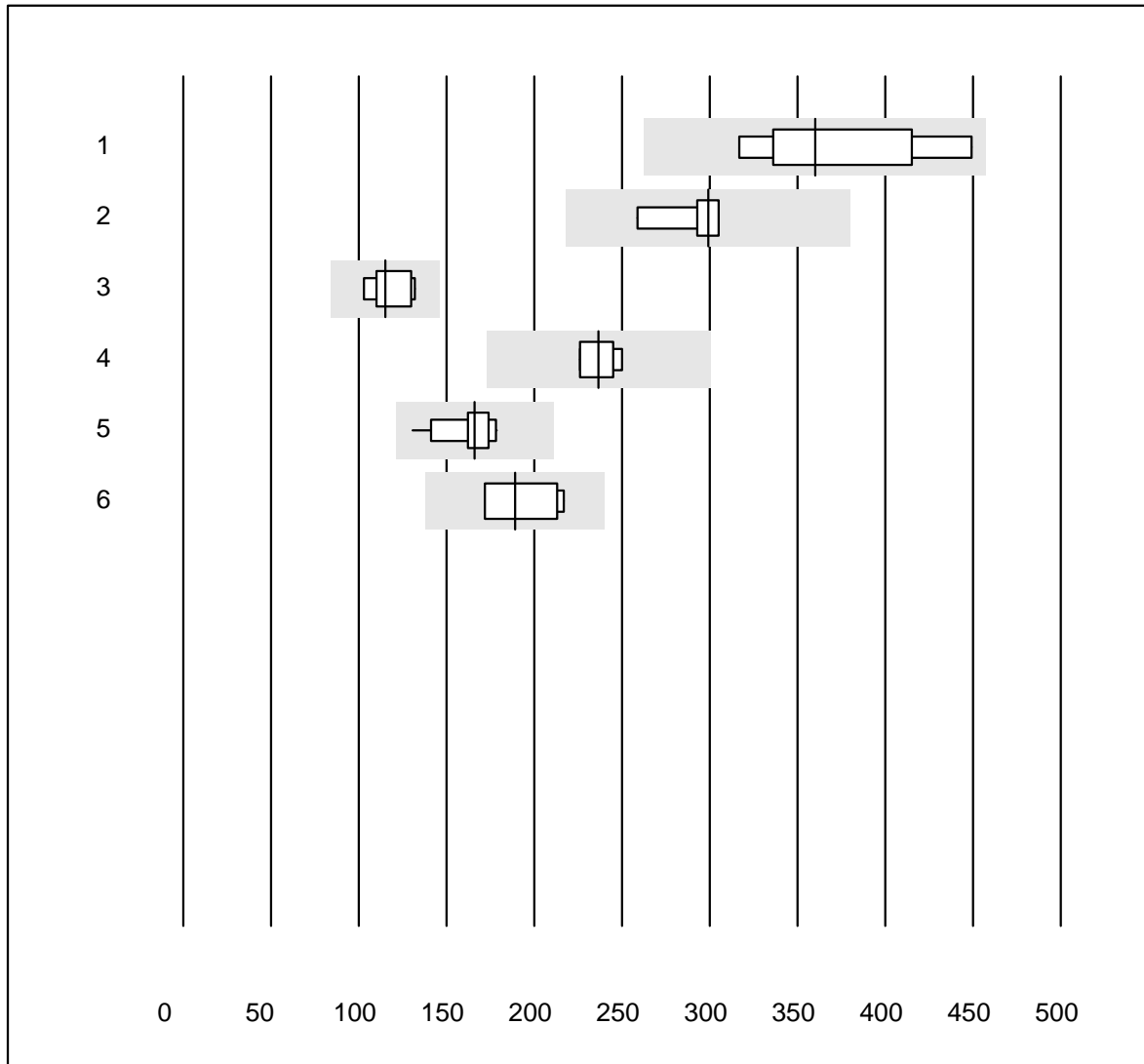
BNP



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Other methods	6	100.0	0.0	0.0	180.3	16.6	e*

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

NT-proBNP



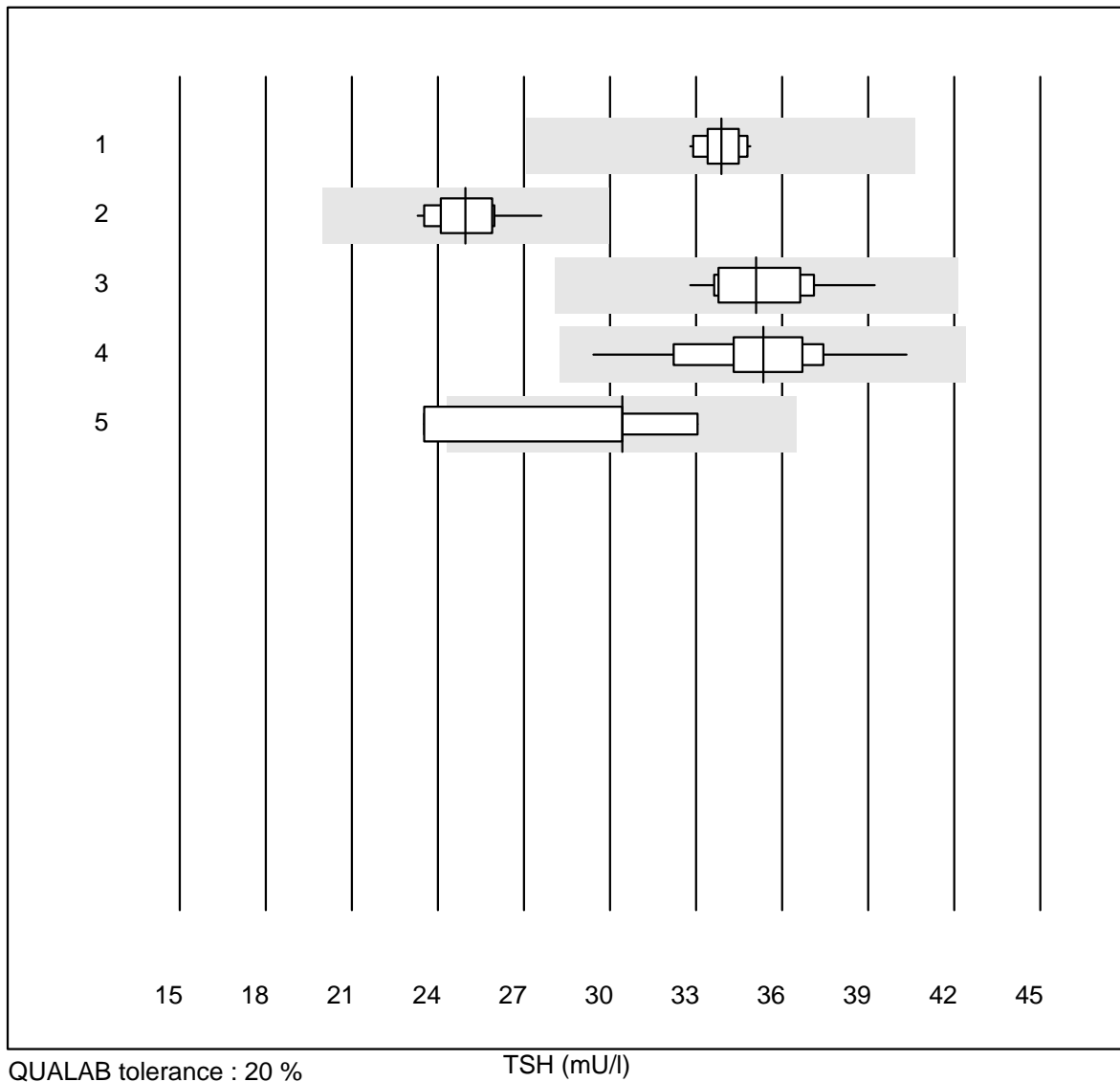
QUALAB tolerance : 27 %

NT-proBNP (ng/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Pathfast	7	100.0	0.0	0.0	360.0	12.6	e*
2	AQT 90 FLEX	5	100.0	0.0	0.0	299.0	6.6	e
3	VIDAS	9	100.0	0.0	0.0	115.0	9.0	e
4	Other methods	4	100.0	0.0	0.0	236.5	5.1	e
5	Cobas E / Elecsys	16	100.0	0.0	0.0	166.0	8.1	e
6	Architect	7	100.0	0.0	0.0	189.0	9.6	e*

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

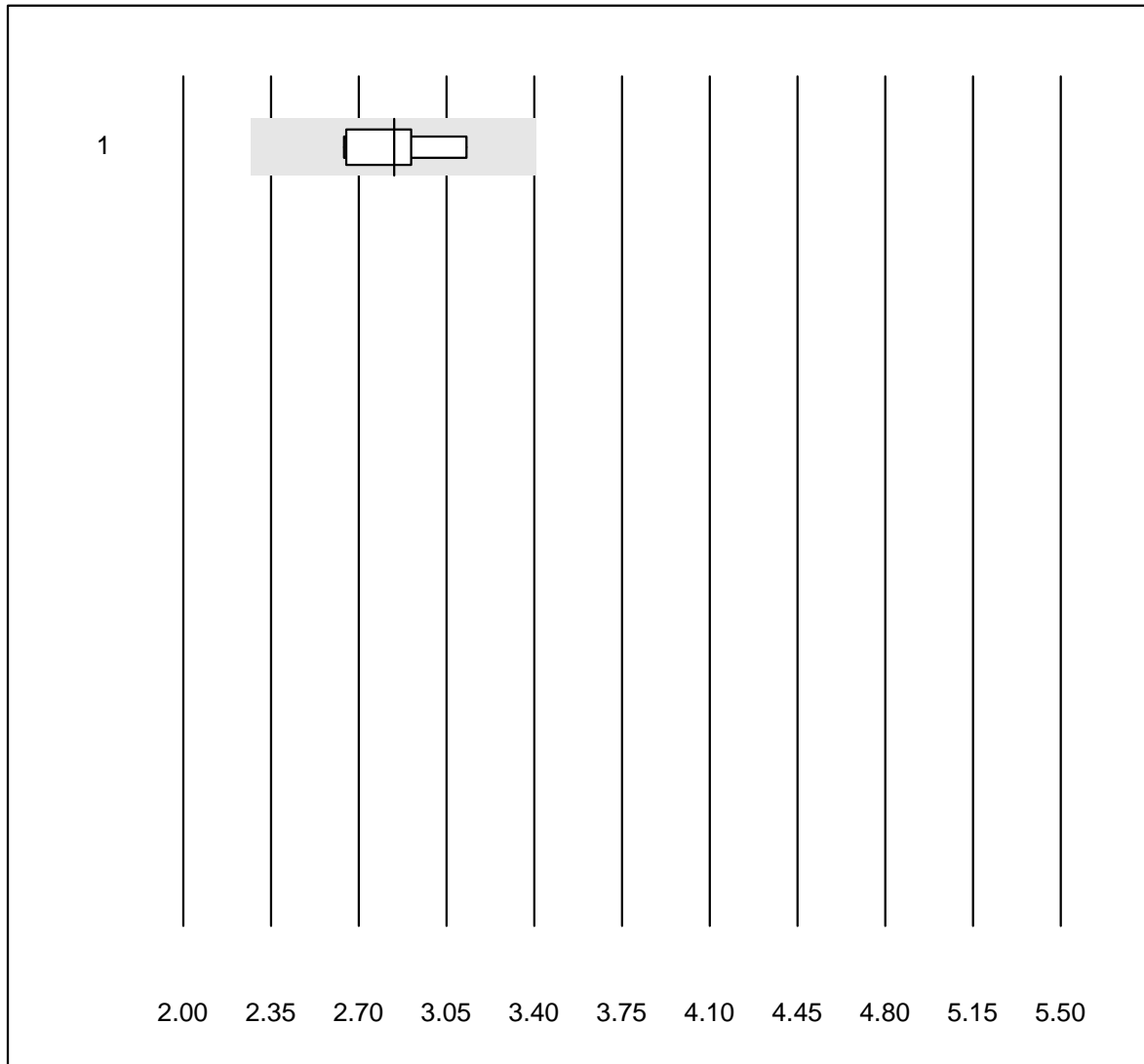
TSH



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cobas E / Elecsys	18	100.0	0.0	0.0	33.87	1.9	e
2 Architect	11	100.0	0.0	0.0	24.95	5.0	e
3 VIDAS	15	100.0	0.0	0.0	35.10	4.9	e
4 AFIAS	35	97.1	0.0	2.9	35.34	6.0	e
5 Other methods	5	60.0	20.0	20.0	30.42	13.9	e*

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

T3



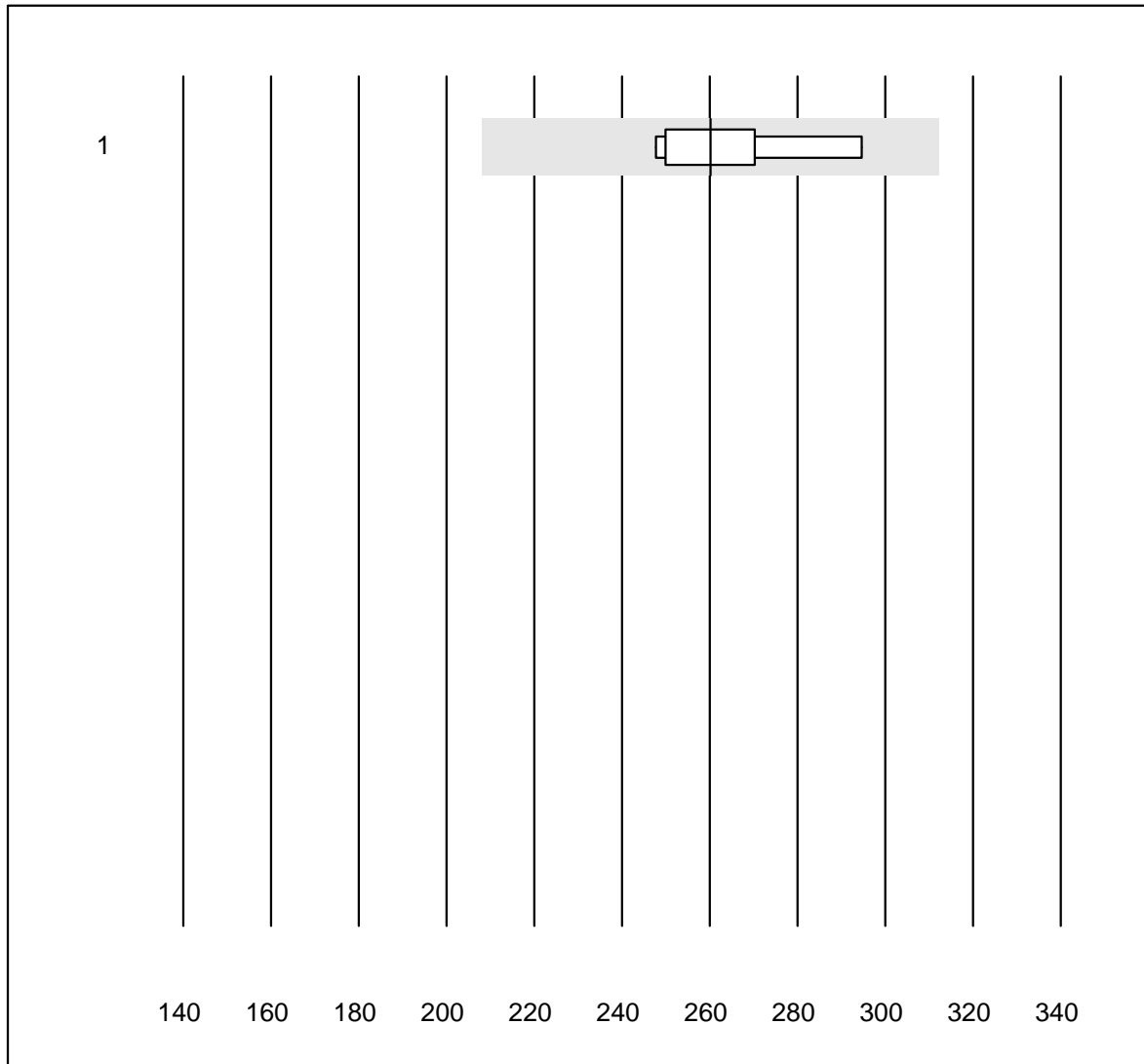
MQ tolerance : 20 %

T3 (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	AFIAS	8	100.0	0.0	0.0	2.8	6.4	e

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

T4



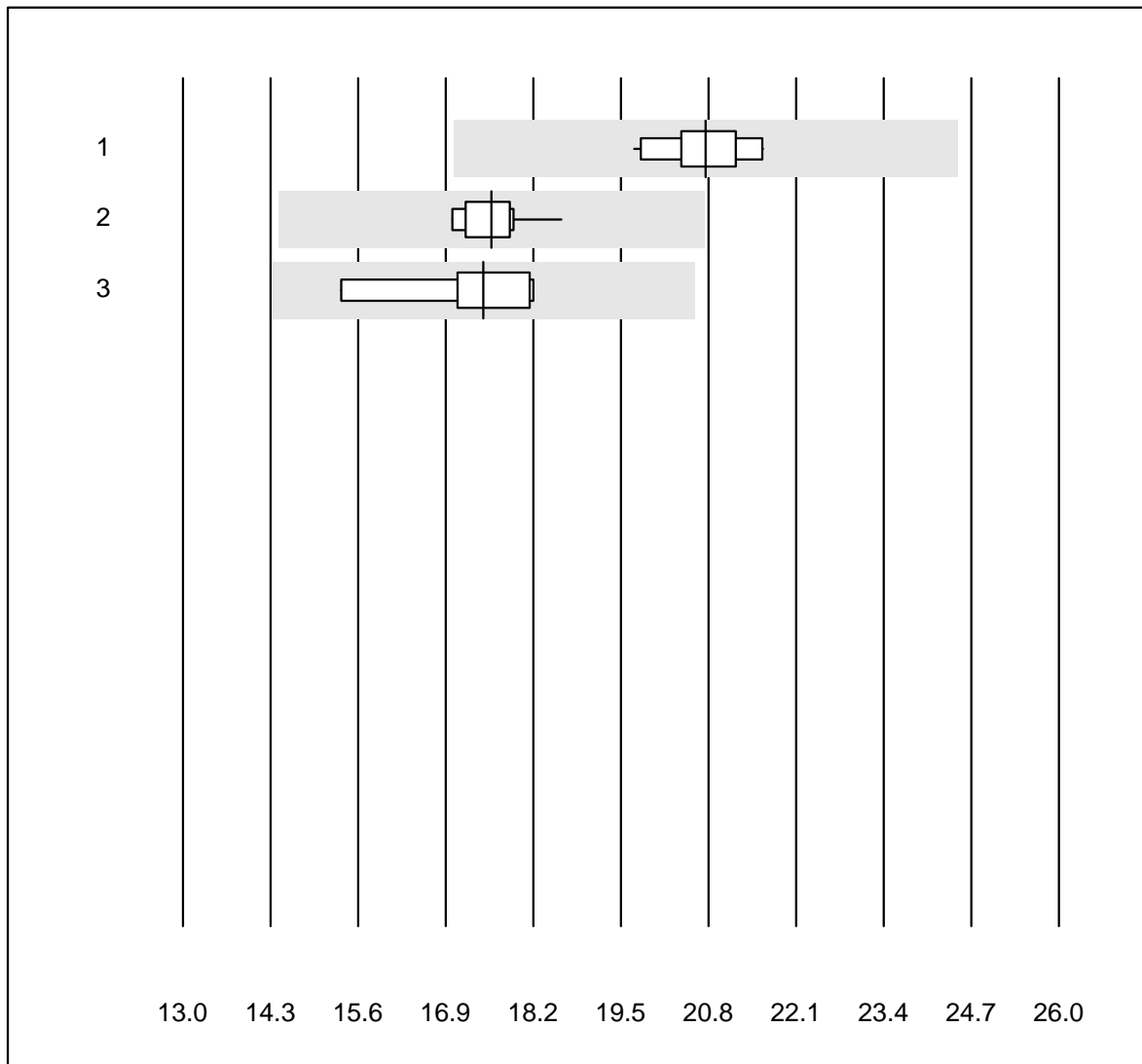
MQ tolerance : 20 %

T4 (nmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	AFIAS	8	100.0	0.0	0.0	260	6.1	e

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

FT3



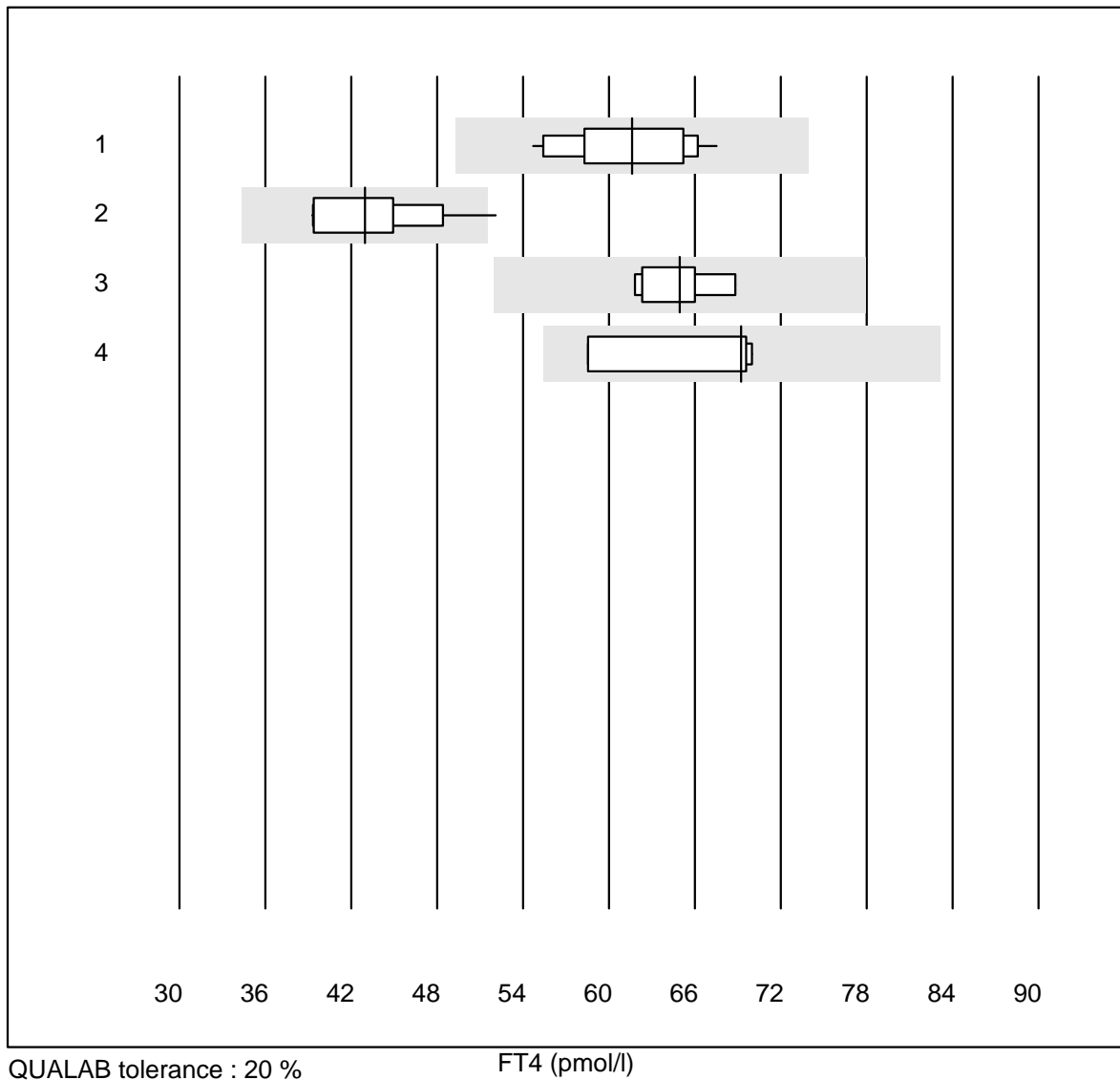
QUALAB tolerance : 18 %

FT3 (pmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	18	100.0	0.0	0.0	20.8	2.9	e
2	Architect	10	100.0	0.0	0.0	17.6	2.7	e
3	VIDAS	7	100.0	0.0	0.0	17.5	5.6	e

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

FT4



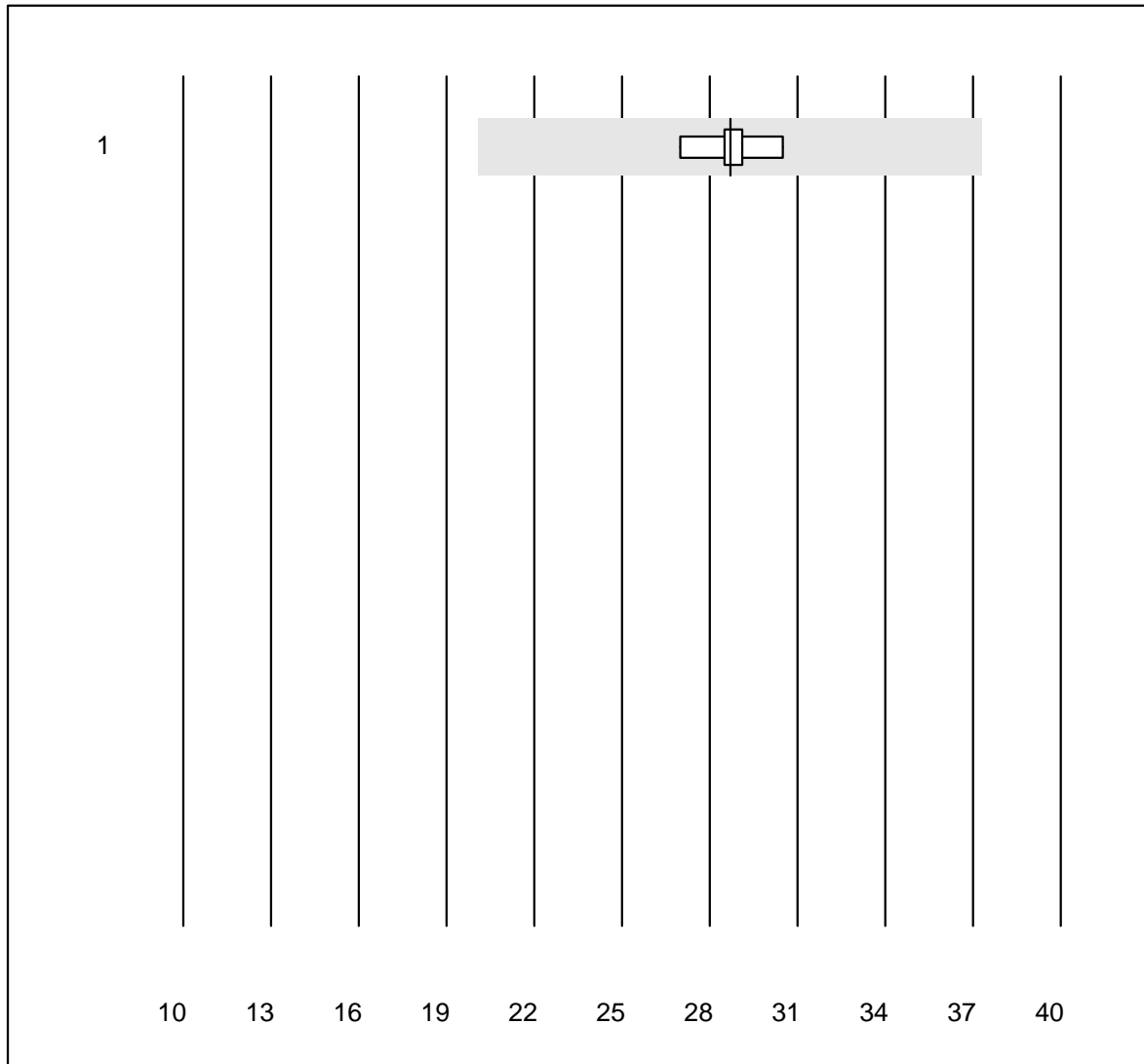
QUALAB tolerance : 20 %

FT4 (pmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	18	100.0	0.0	0.0	61.6	6.4	e
2	Architect	11	90.9	9.1	0.0	42.9	9.7	e*
3	VIDAS	8	100.0	0.0	0.0	64.9	3.6	e
4	Other methods	4	100.0	0.0	0.0	69.3	8.2	e*

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

Testosterone



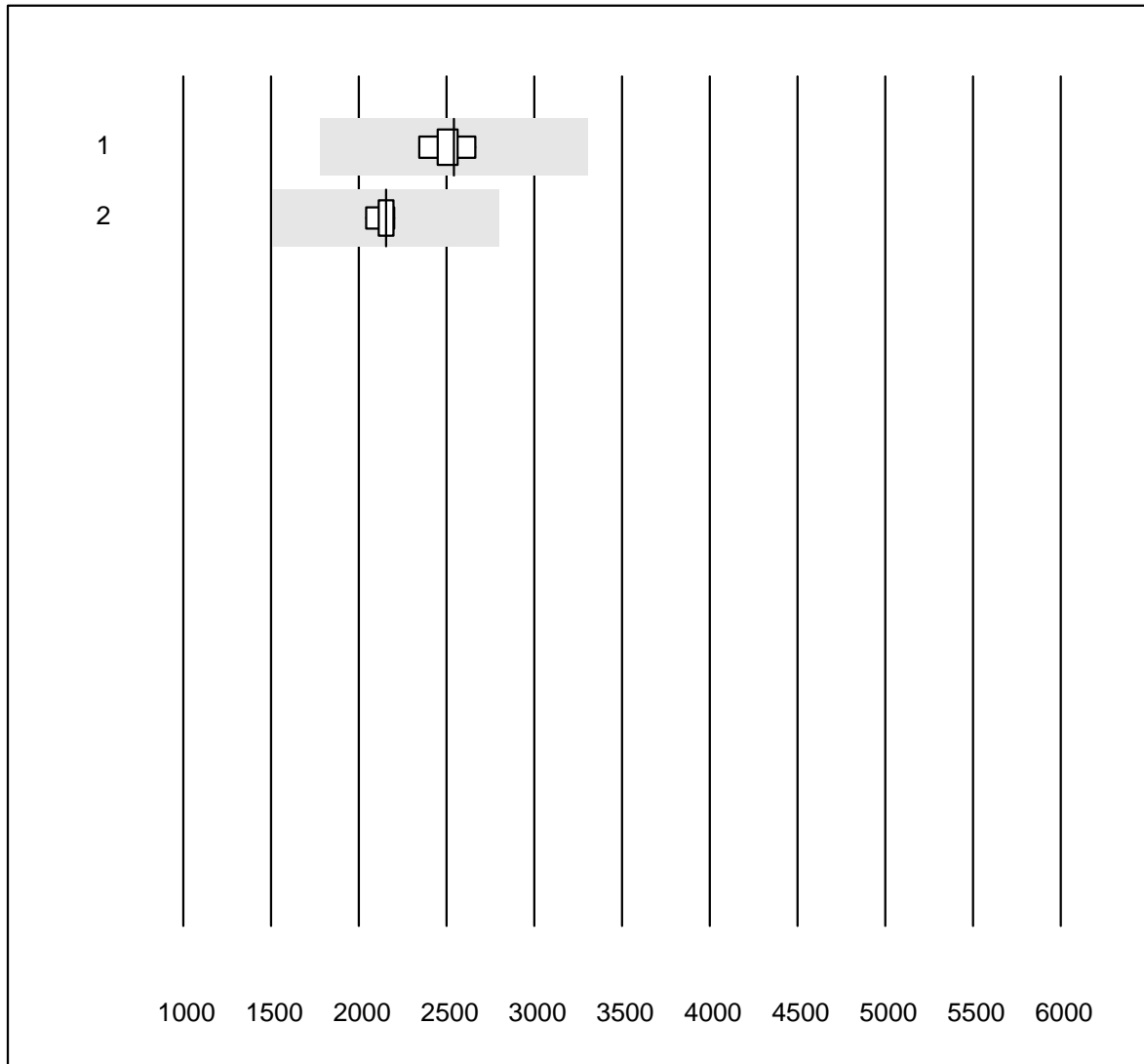
QUALAB tolerance : 30 %

Testosterone (nmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	9	100.0	0.0	0.0	28.7	3.2	e

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

Estradiol



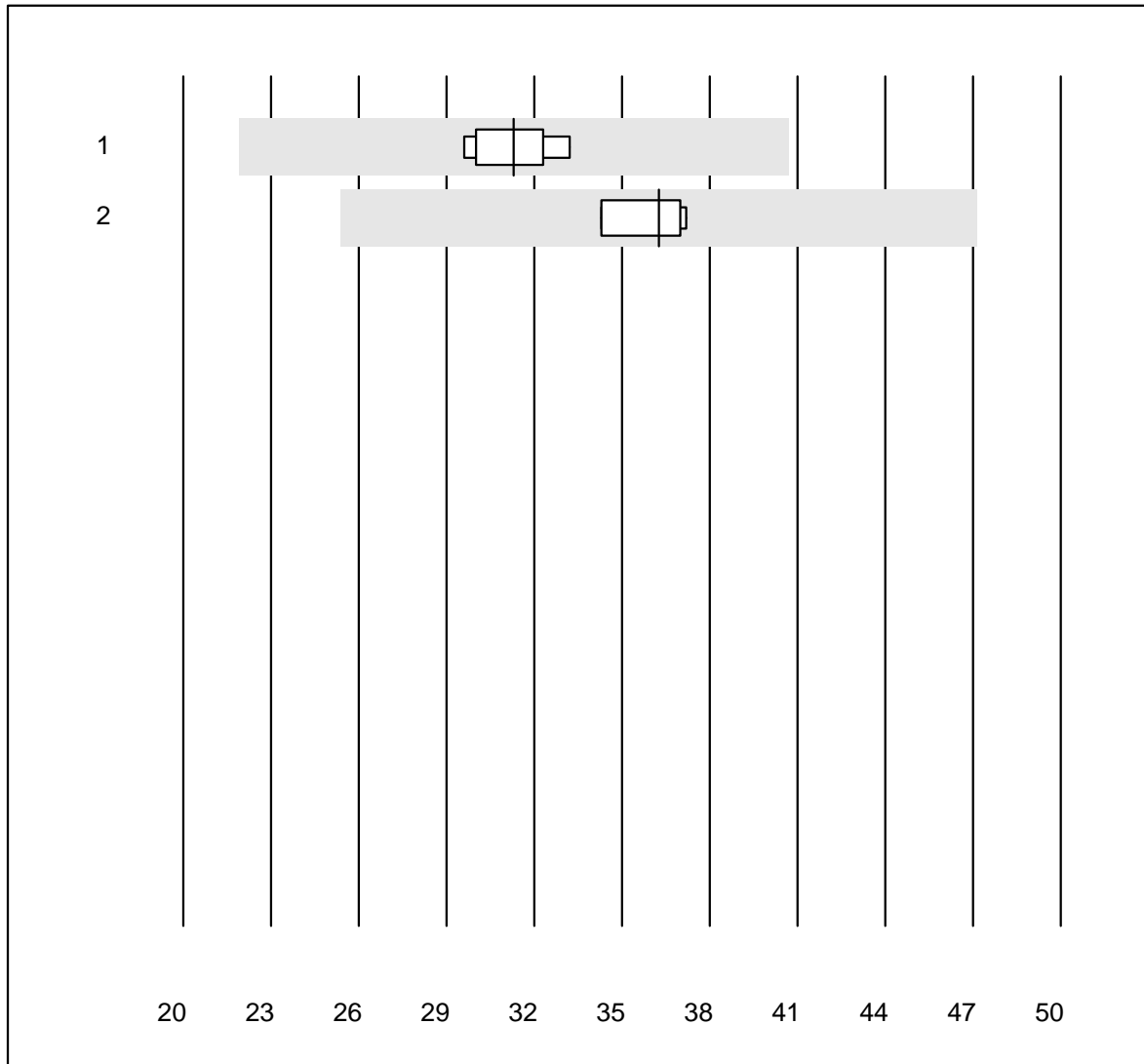
QUALAB tolerance : 30 %

Estradiol (pmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	8	100.0	0.0	0.0	2542	3.8	e
2	Architect	6	100.0	0.0	0.0	2156	2.8	e

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

SHBG



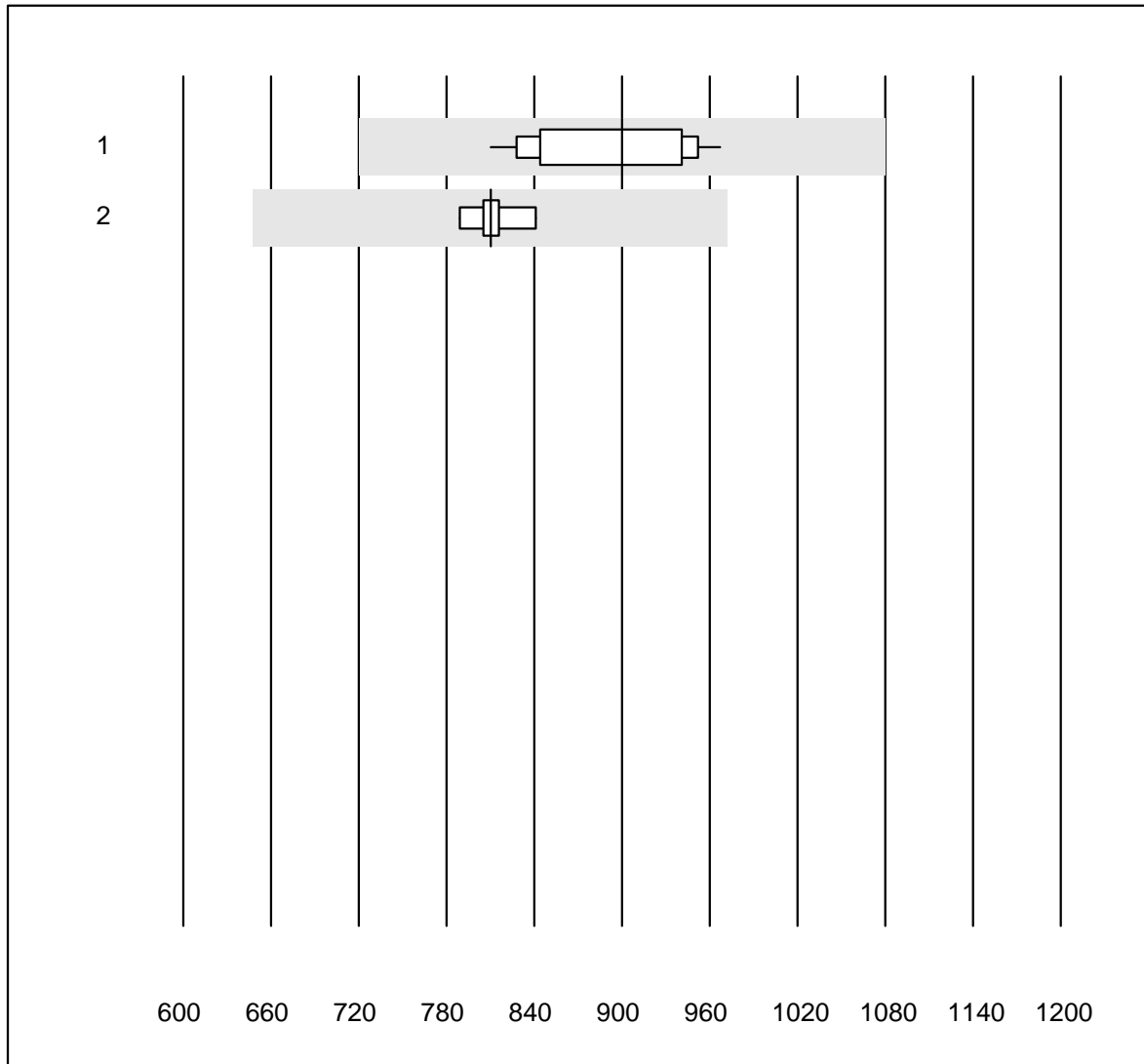
MQ tolerance : 30 %

SHBG (nmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cobas	8	100.0	0.0	0.0	31.3	4.3	e
2 Architect	4	100.0	0.0	0.0	36.3	3.8	e

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

Cortisol



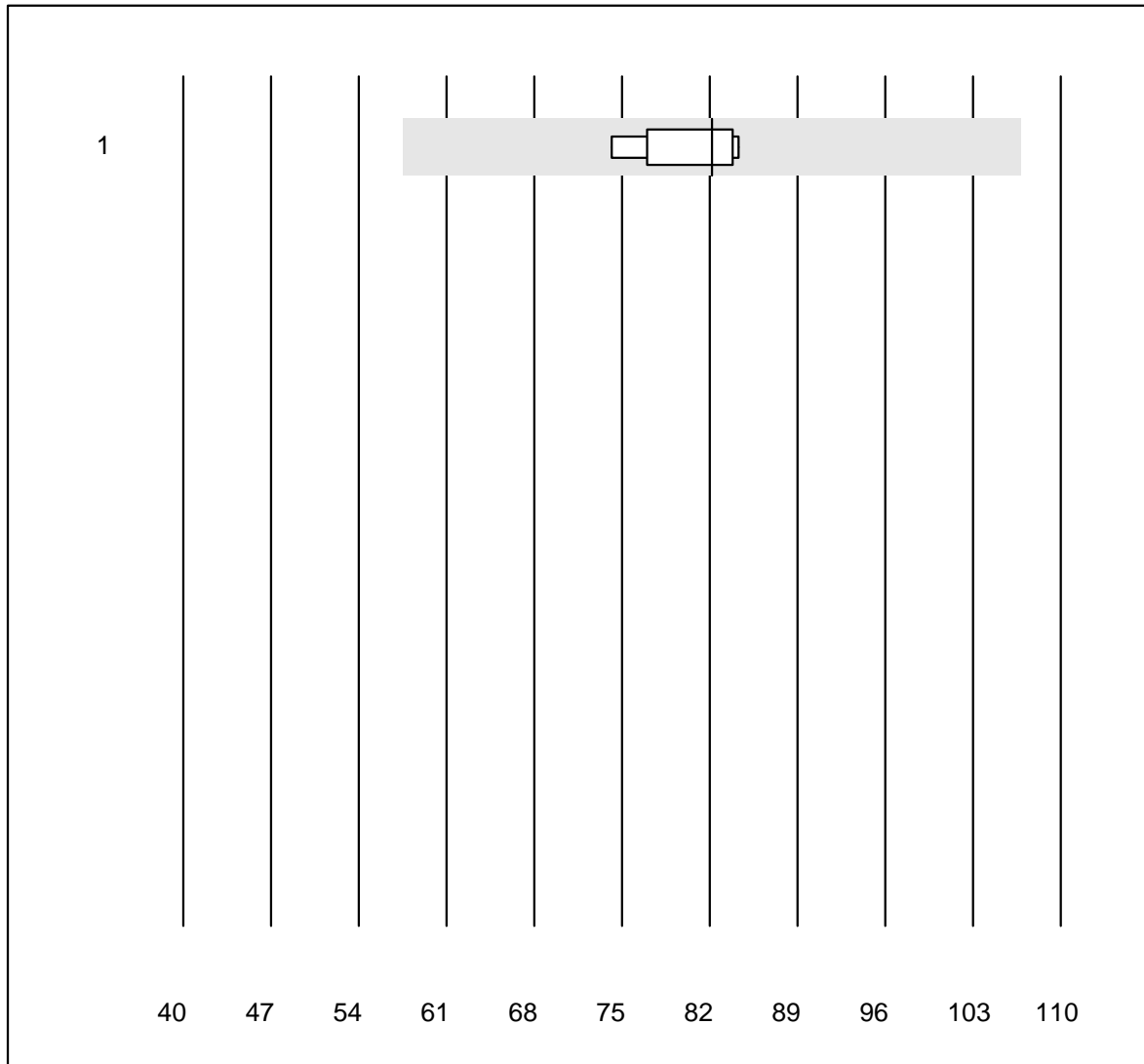
QUALAB tolerance : 20 %

Cortisol (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	15	100.0	0.0	0.0	900	5.3	e
2	Architect	5	100.0	0.0	0.0	810	2.3	e

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

Progesteron



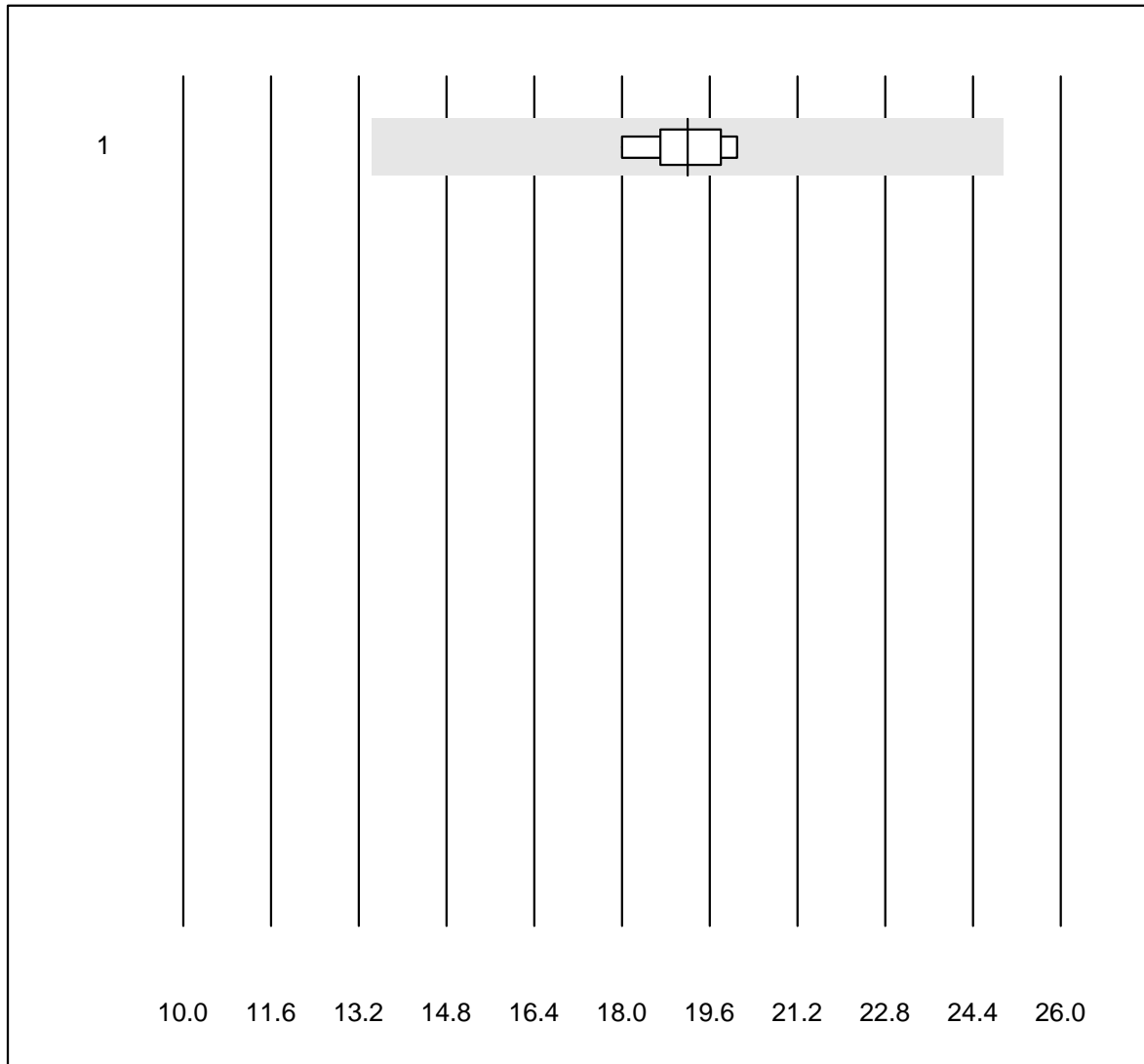
MQ tolerance : 30 %

Progesteron (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	6	100.0	0.0	0.0	82.2	5.0	e

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

DHEAS



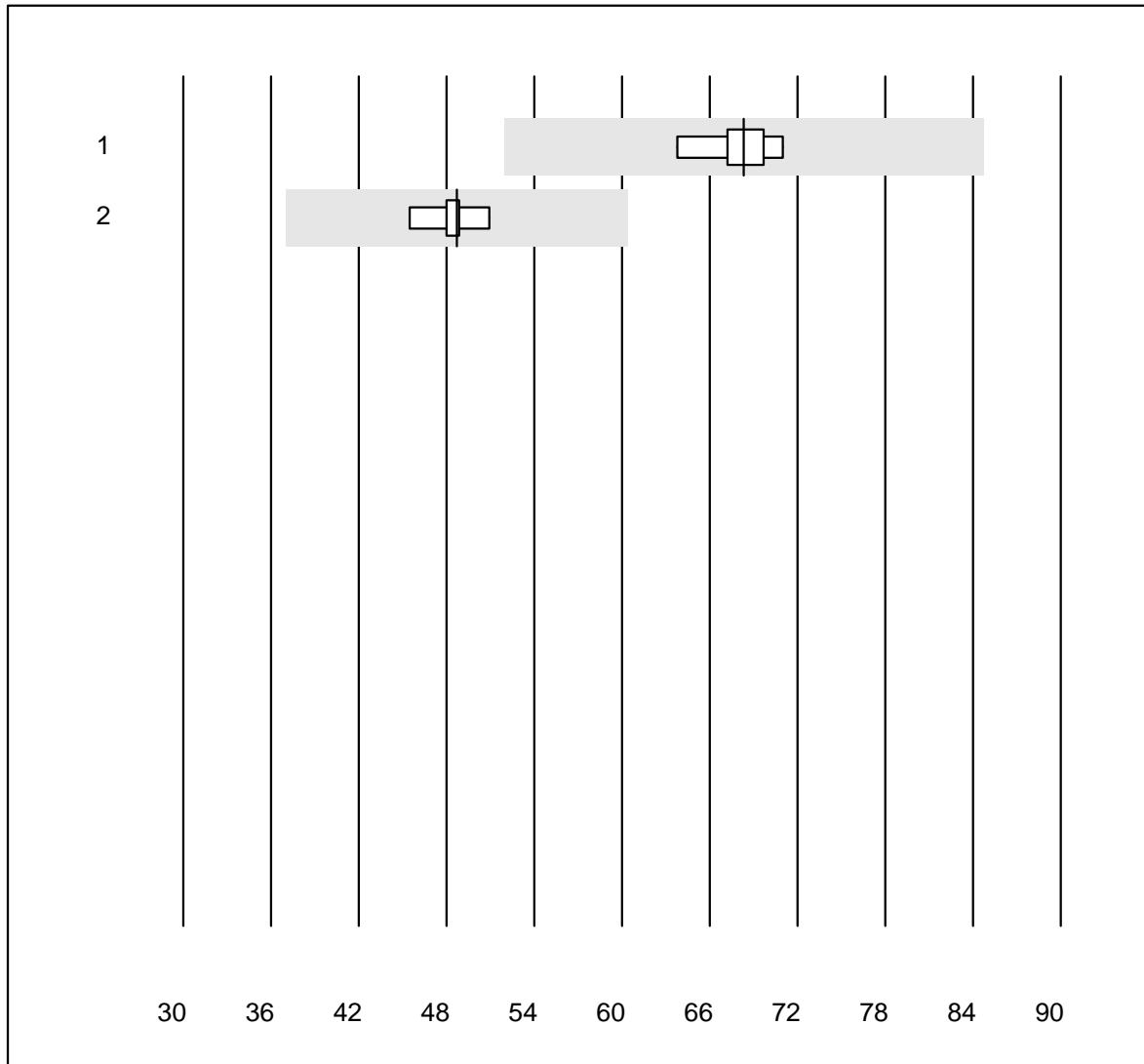
MQ tolerance : 30 %

DHEAS (µmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	7	100.0	0.0	0.0	19.20	3.7	e

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

Luteinizing hormone



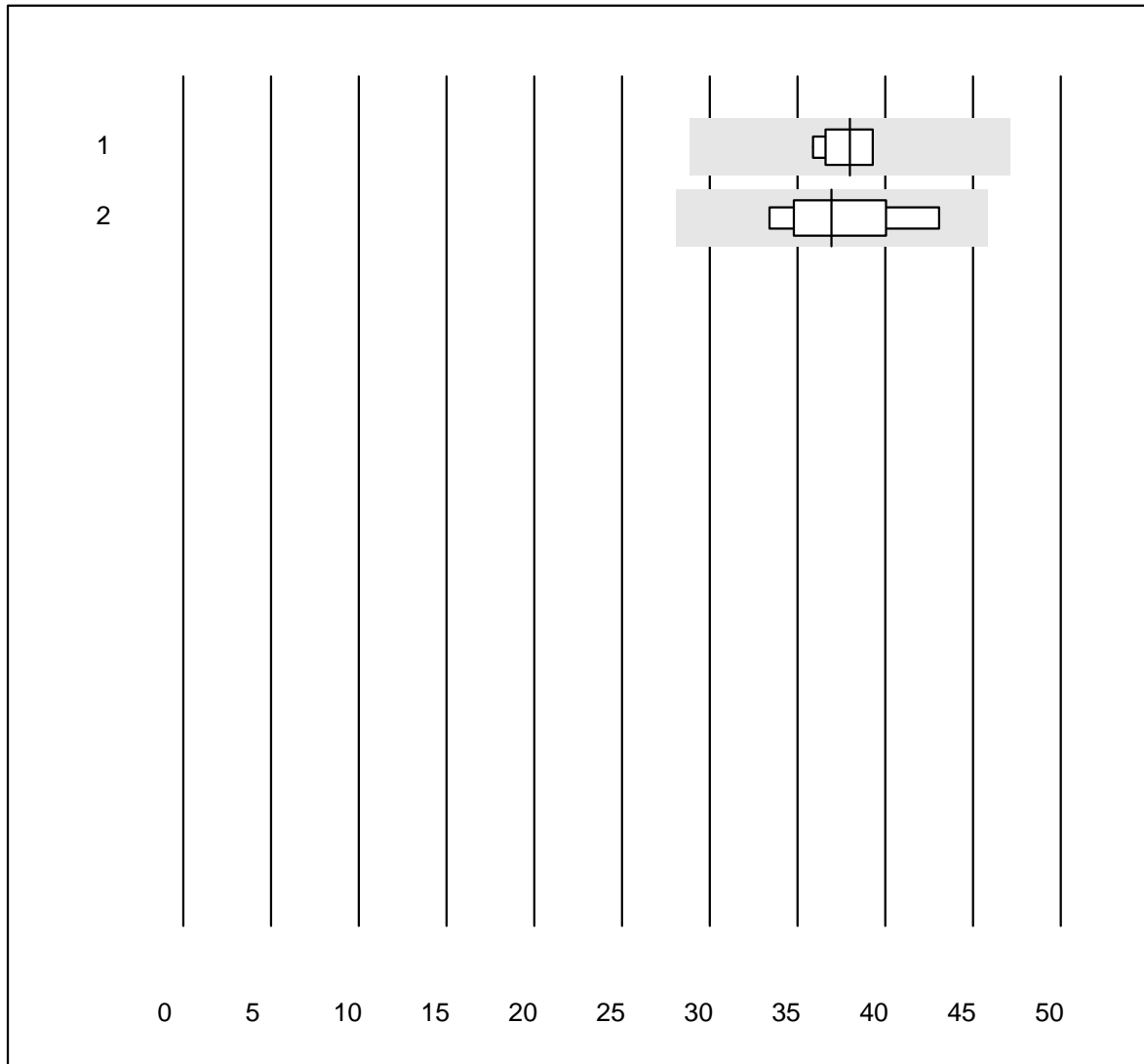
QUALAB tolerance : 24 %

Luteinizing hormone (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Roche, Cobas	9	100.0	0.0	0.0	68.3	3.2	e
2	Architect	5	100.0	0.0	0.0	48.7	4.0	e

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

Follicle-stimulating hormone



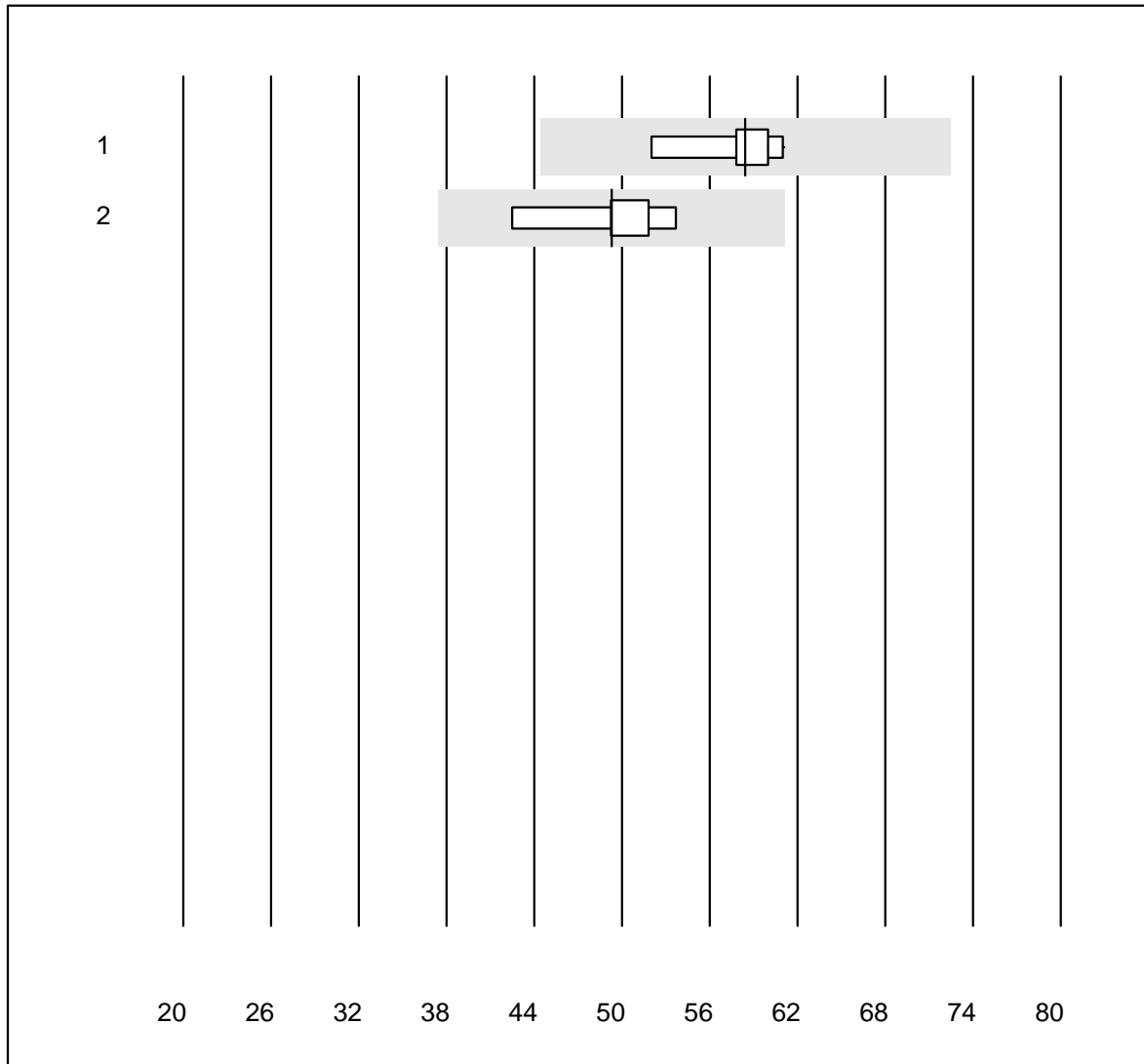
QUALAB tolerance : 24 %

Follicle-stimulating hormone (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Roche, Cobas	9	100.0	0.0	0.0	38.0	3.6	e
2	Architect	6	100.0	0.0	0.0	37.0	9.8	e*

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

Prolactine



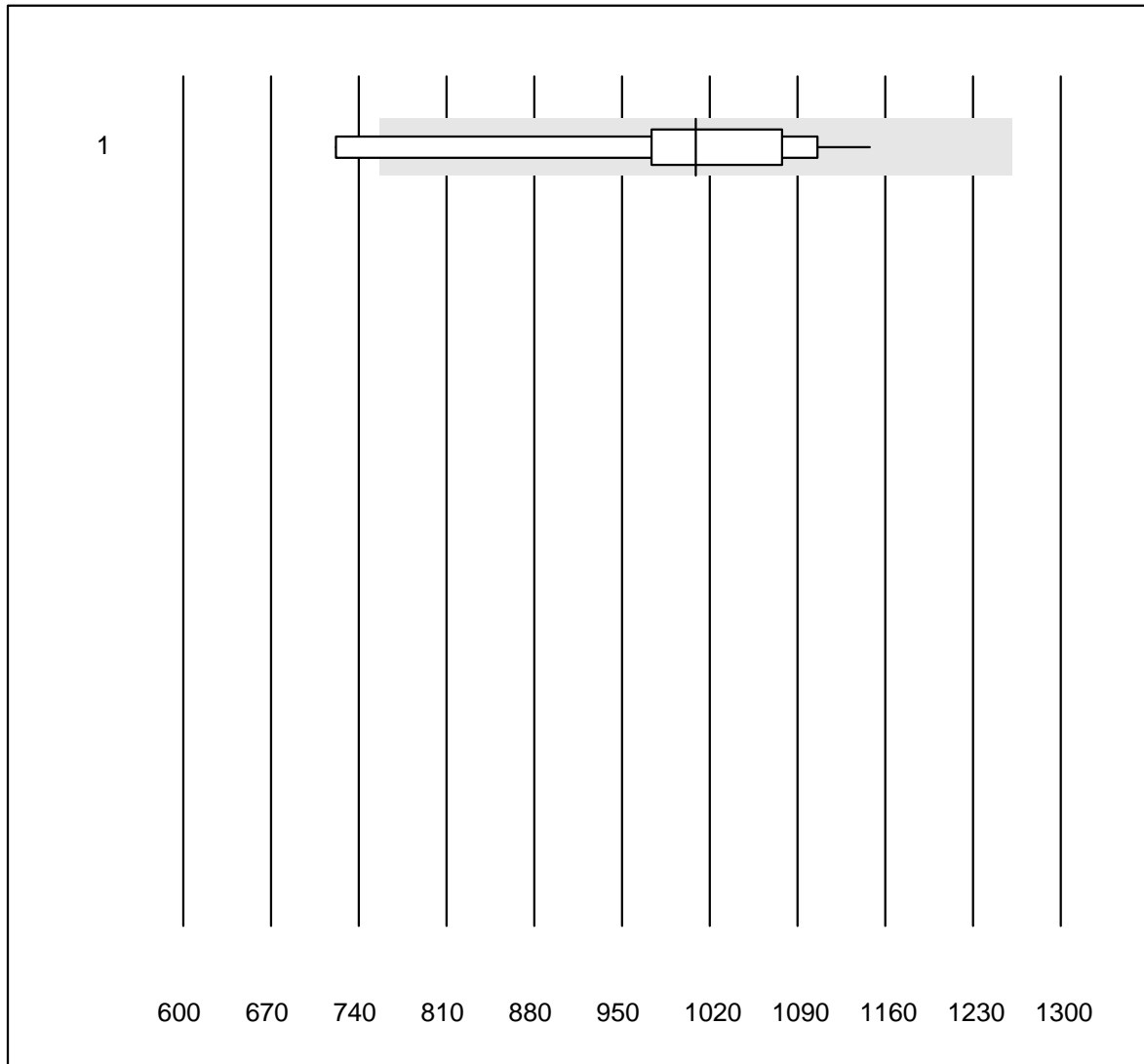
QUALAB tolerance : 24 %

Prolactine (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas/Roche	10	100.0	0.0	0.0	58.4	4.5	e
2	Architect	5	100.0	0.0	0.0	49.3	8.6	e*

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

Insulin



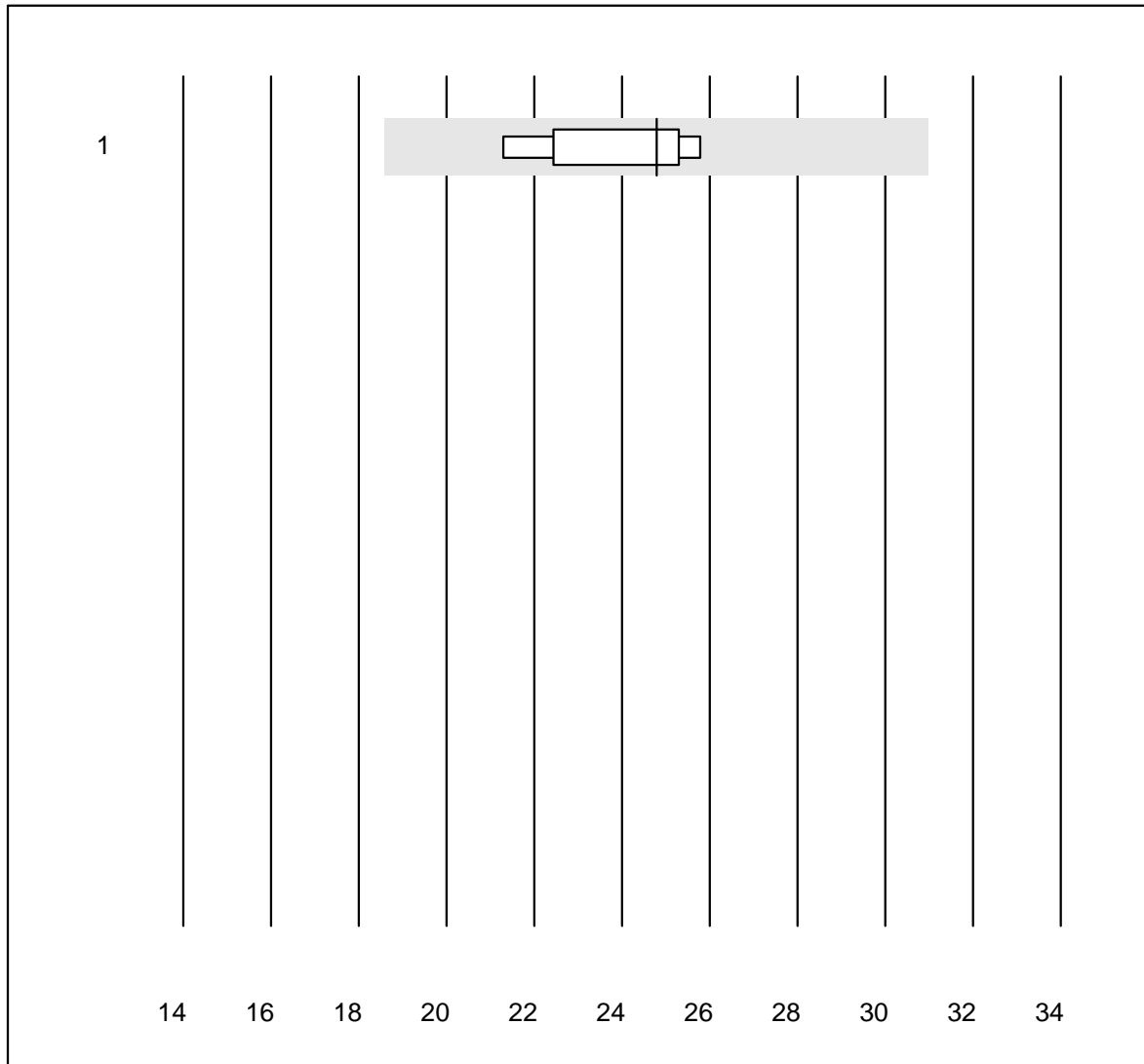
MQ tolerance : 25 %

Insulin (pmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	10	90.0	10.0	0.0	1009	11.7	e*

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

HGH



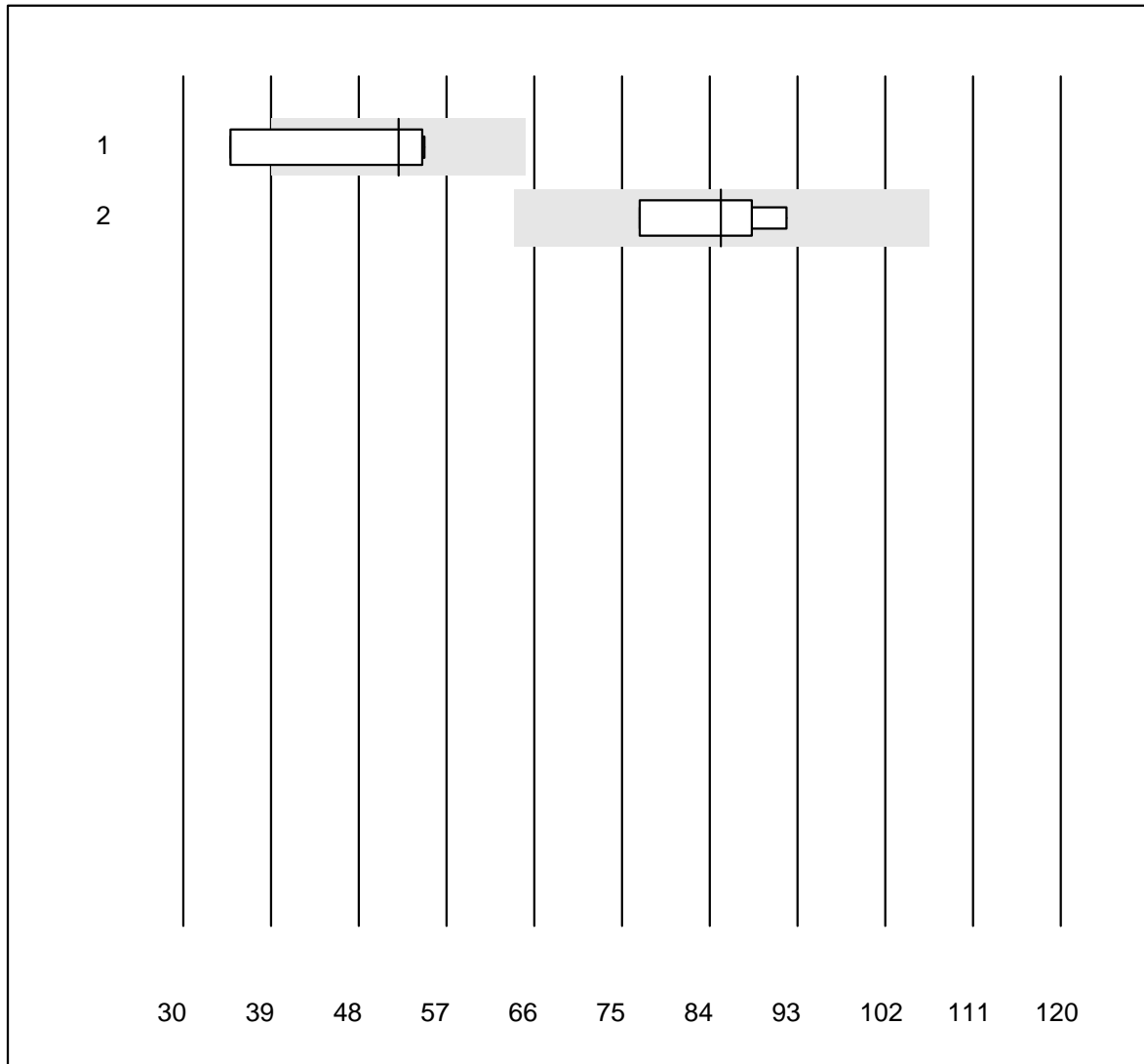
MQ tolerance : 25 %

HGH (µg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	6	100.0	0.0	0.0	24.80	7.4	e*

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

Freies Testosteron

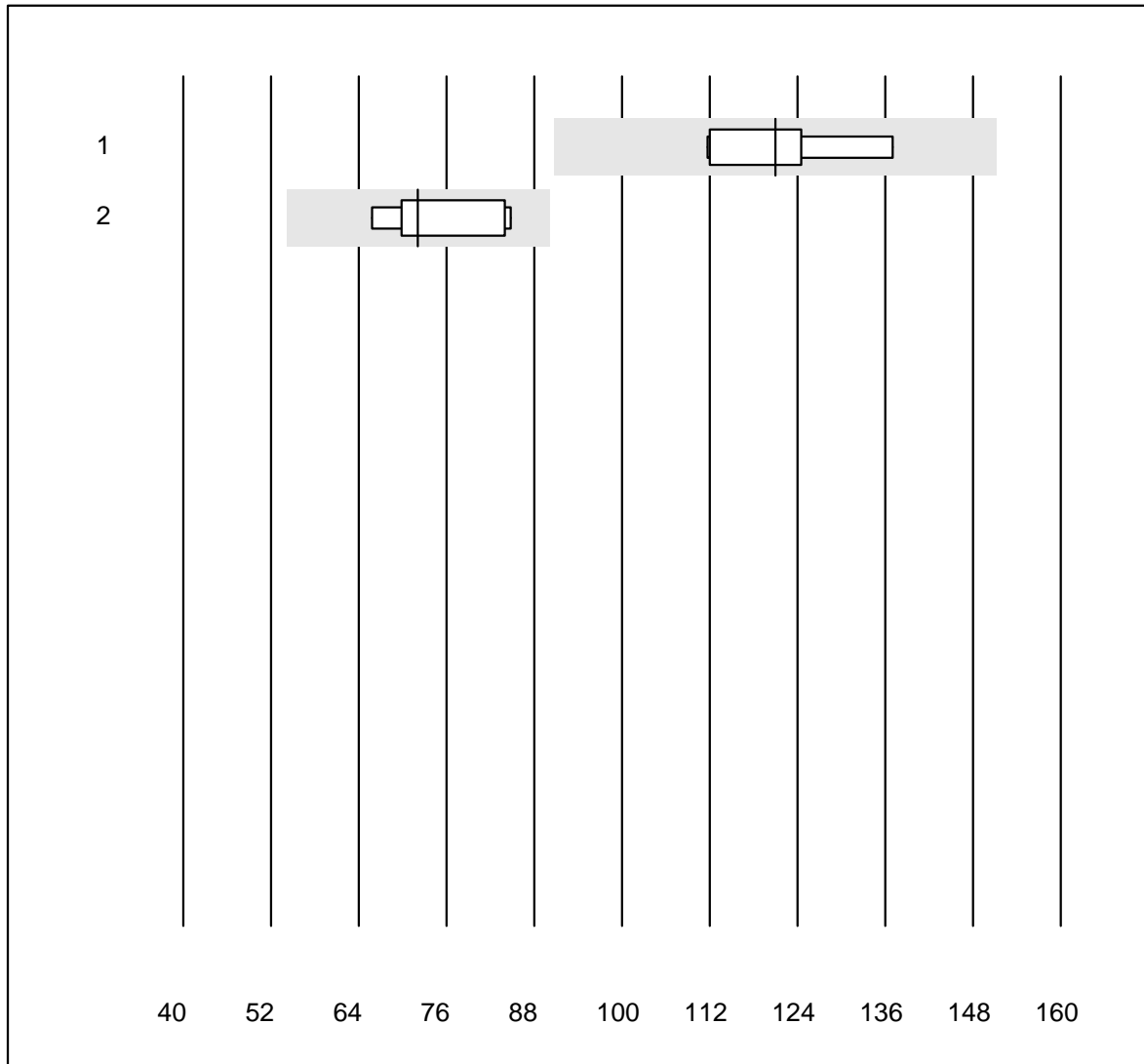


MQ tolerance : 25 %

Freies Testosteron (pmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	4	75.0	25.0	0.0	52.1	19.3	a
2 Other methods	4	100.0	0.0	0.0	85.2	7.9	e*

IGF-1

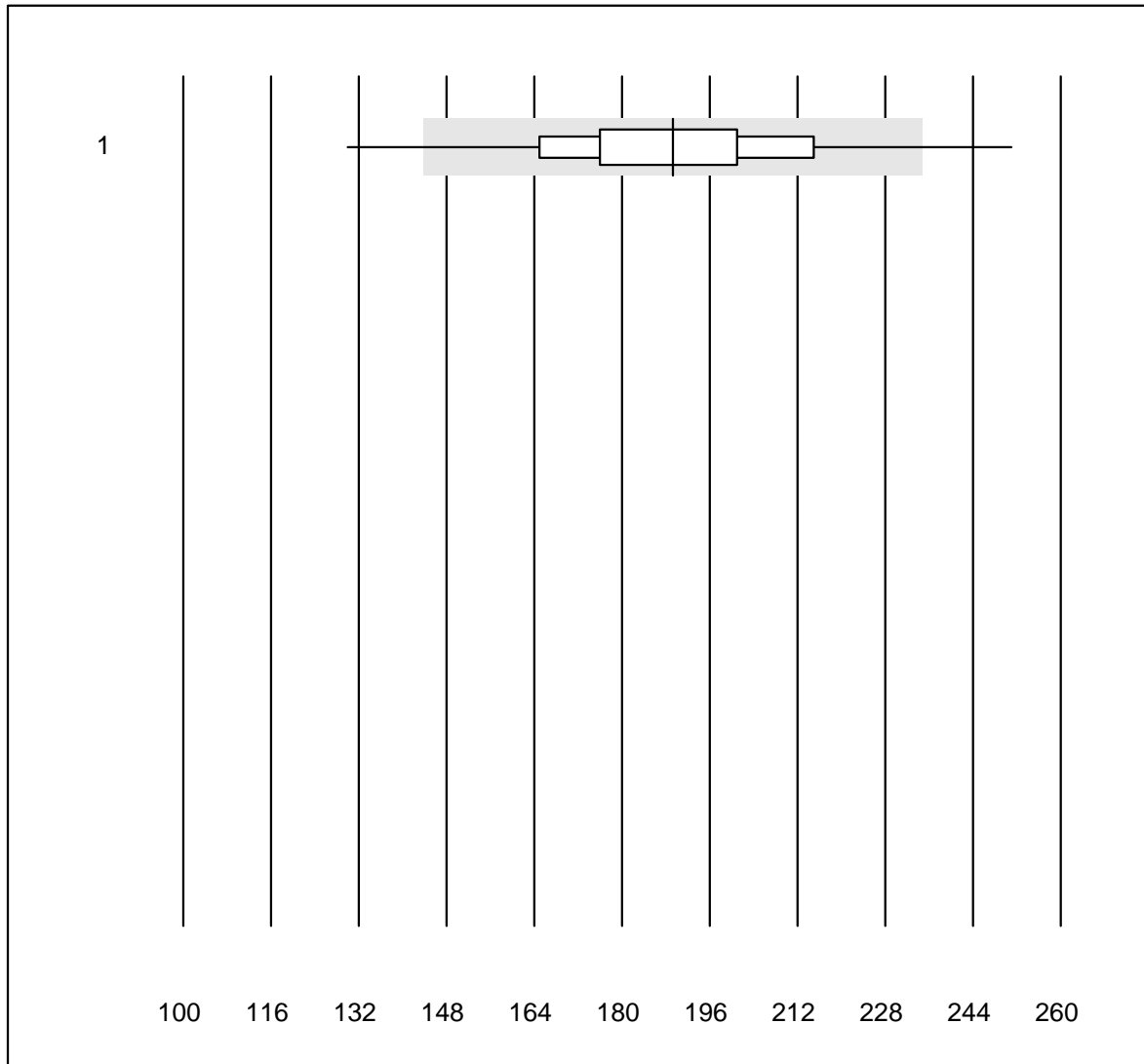


MQ tolerance : 25 %

IGF-1 (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Liaison	5	100.0	0.0	0.0	121	8.6	e*
2	Other methods	5	100.0	0.0	0.0	72	11.4	e*

Troponin T CR

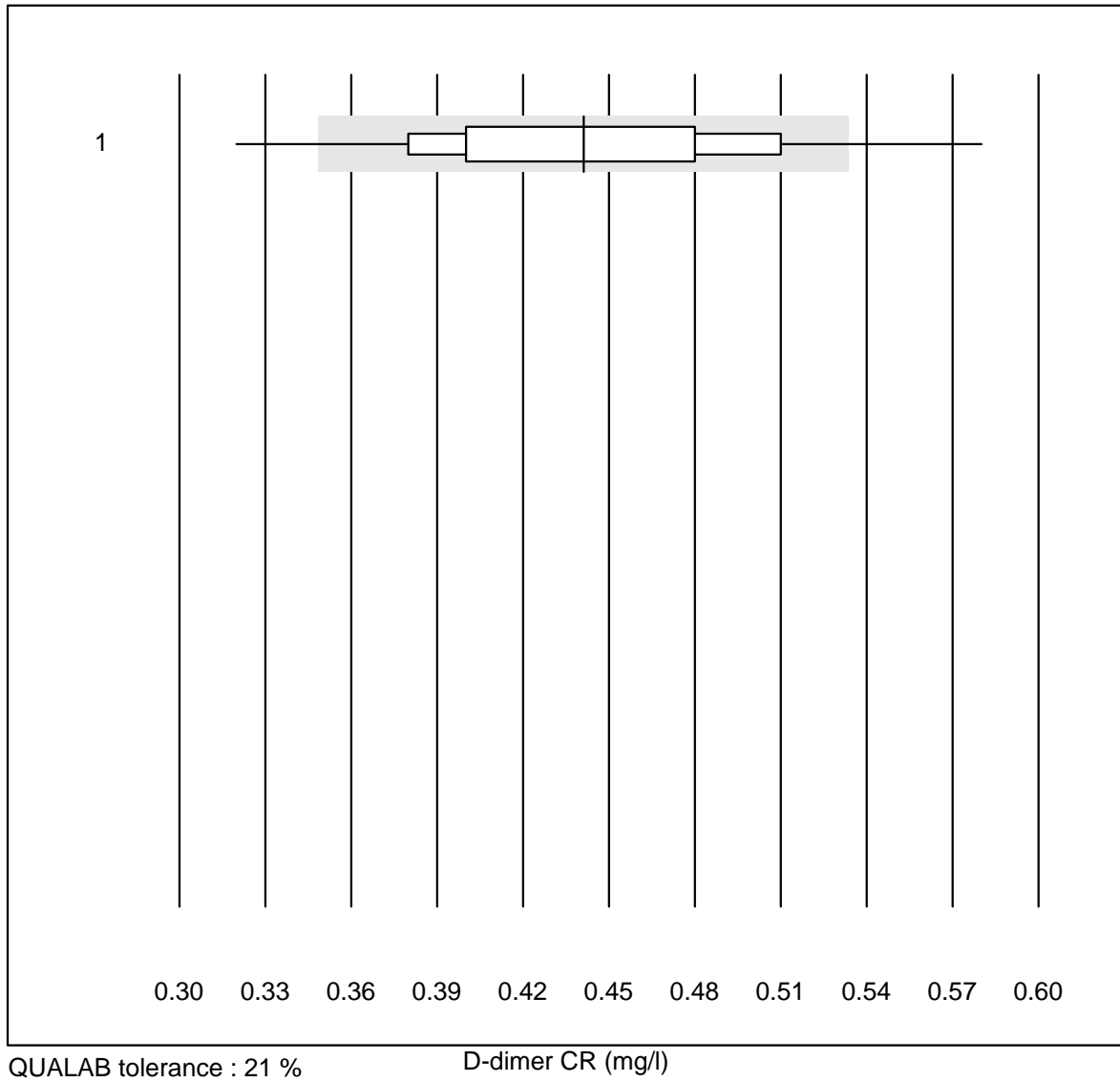


QUALAB tolerance : 24 %

Troponin T CR (ng/l)

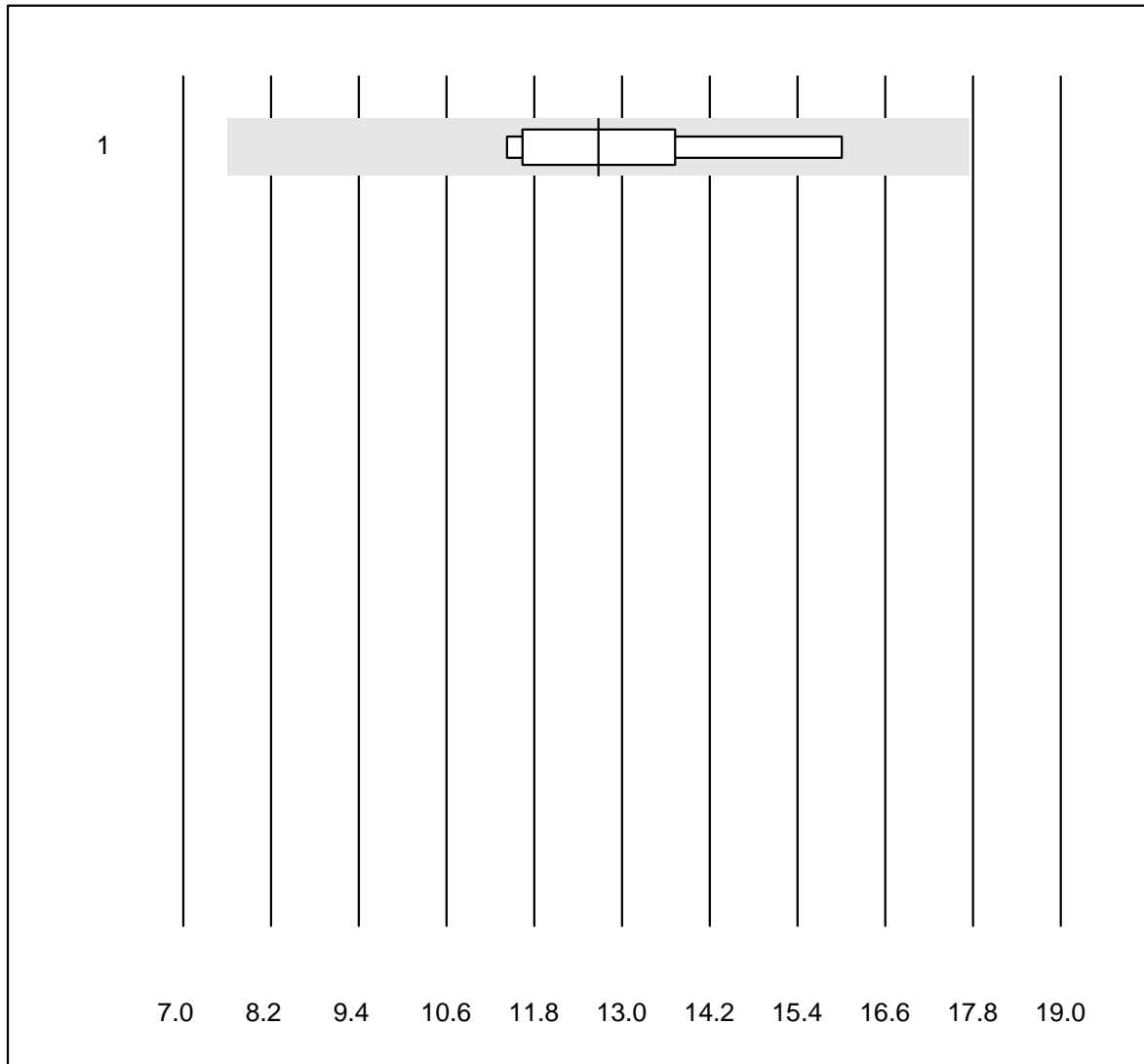
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas h 232	1327	97.1	1.8	1.1	189.29	10.1	e

D-dimer CR



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas h 232	1287	91.5	6.4	2.1	0.44	11.6	e

CKMB- K8

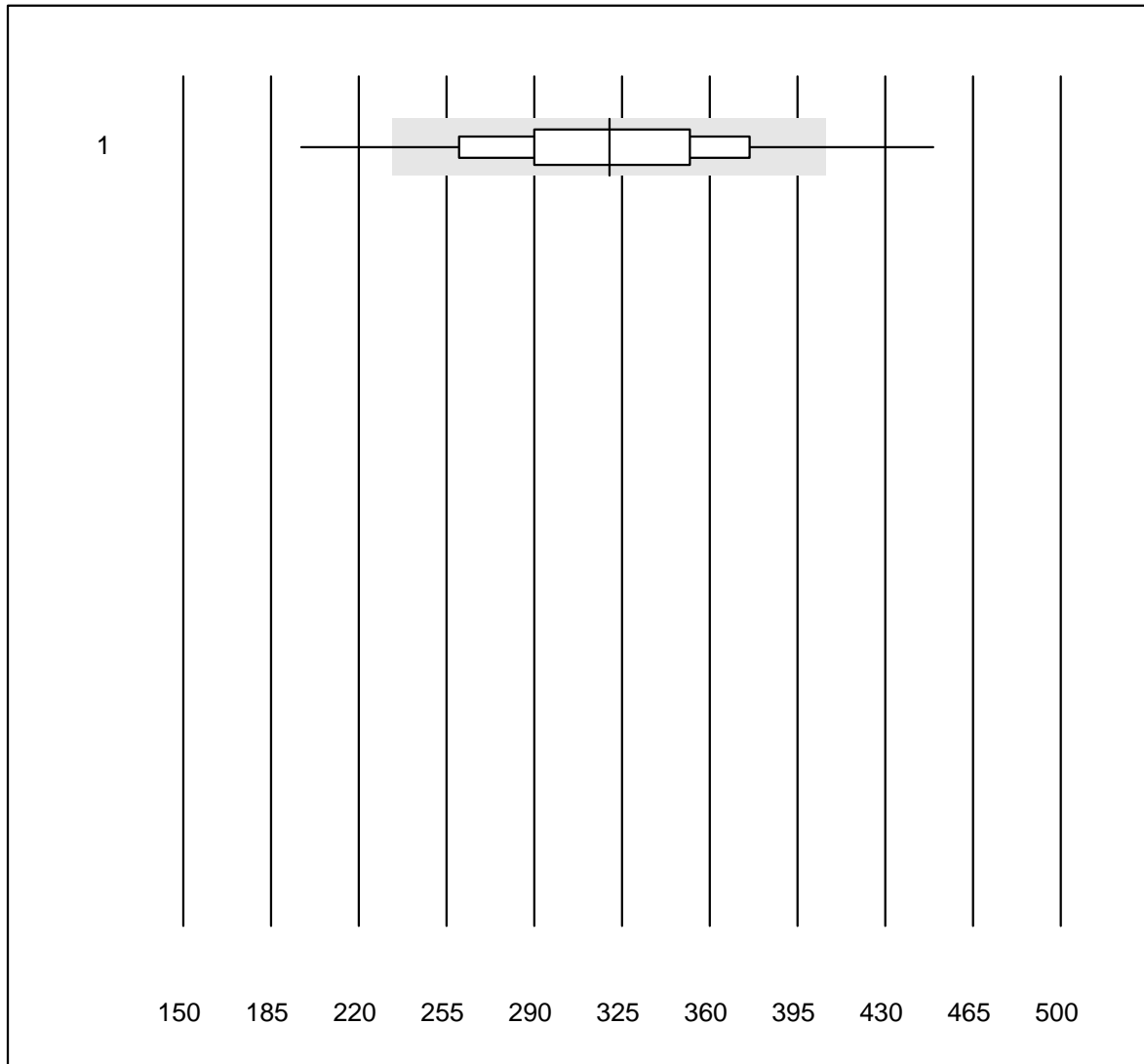


MQ tolerance : 40 %

CKMB- K8 (µg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV% Type
1 Cobas h 232	9	77.8	0.0	22.2	12.7	12.0 e

NT-proBNP CR

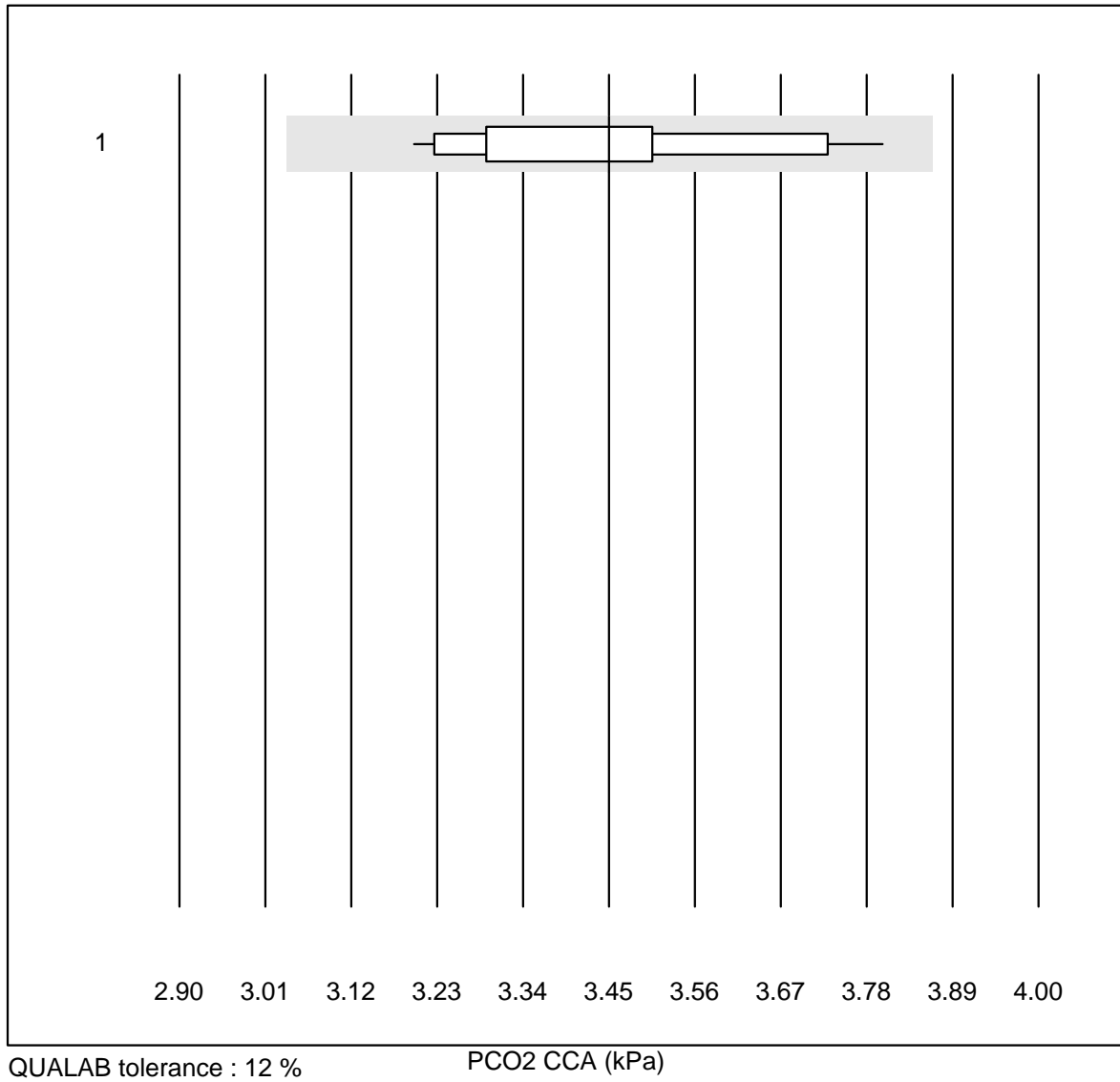


QUALAB tolerance : 27 %

NT-proBNP CR (ng/l)

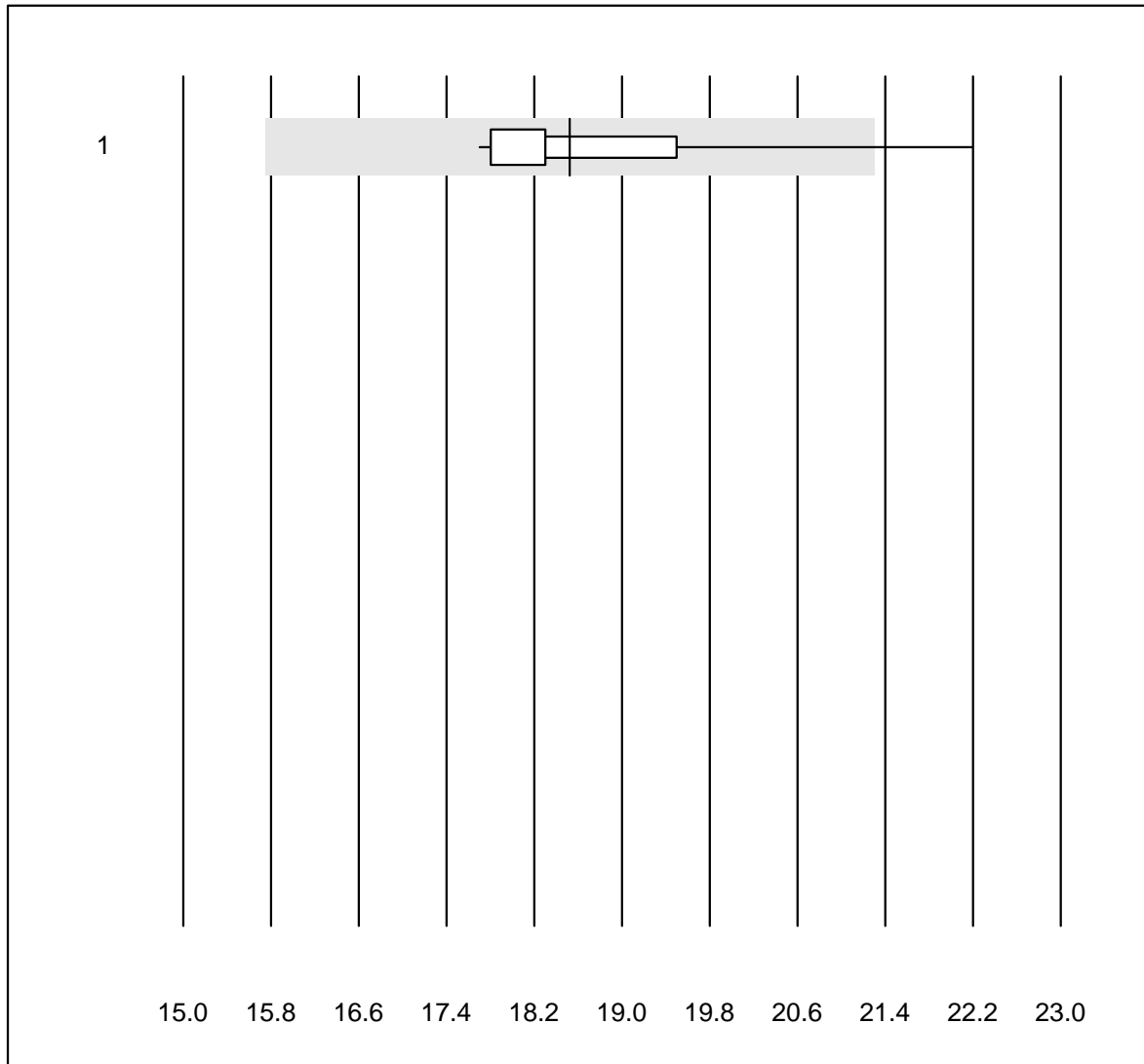
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas h 232	823	92.7	6.0	1.3	320	14.1	e

PCO2 CCA



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 OPTI CCA	12	100.0	0.0	0.0	3.45	5.3	e*

PO2 CCA

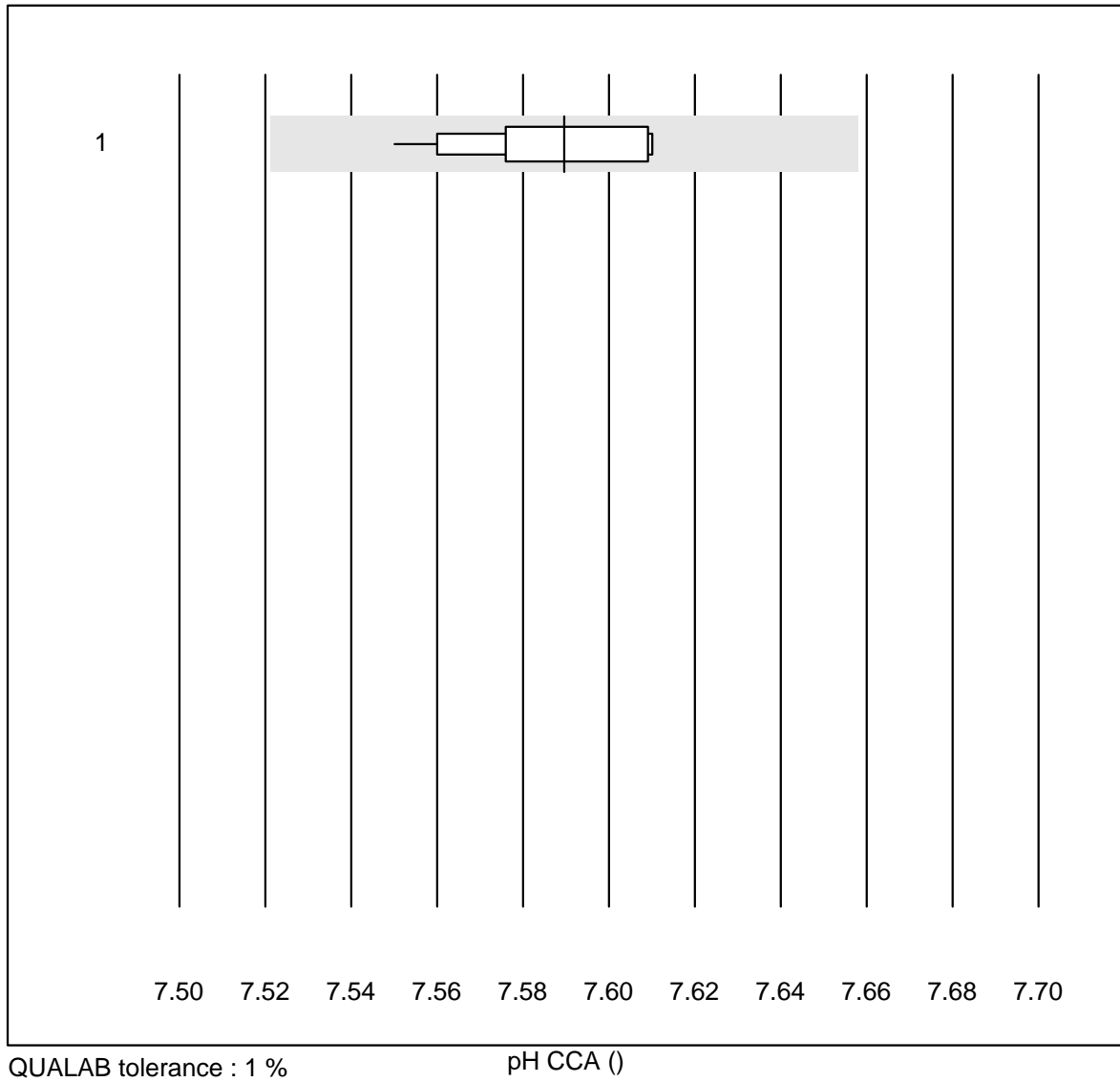


QUALAB tolerance : 15 %

PO2 CCA (kPa)

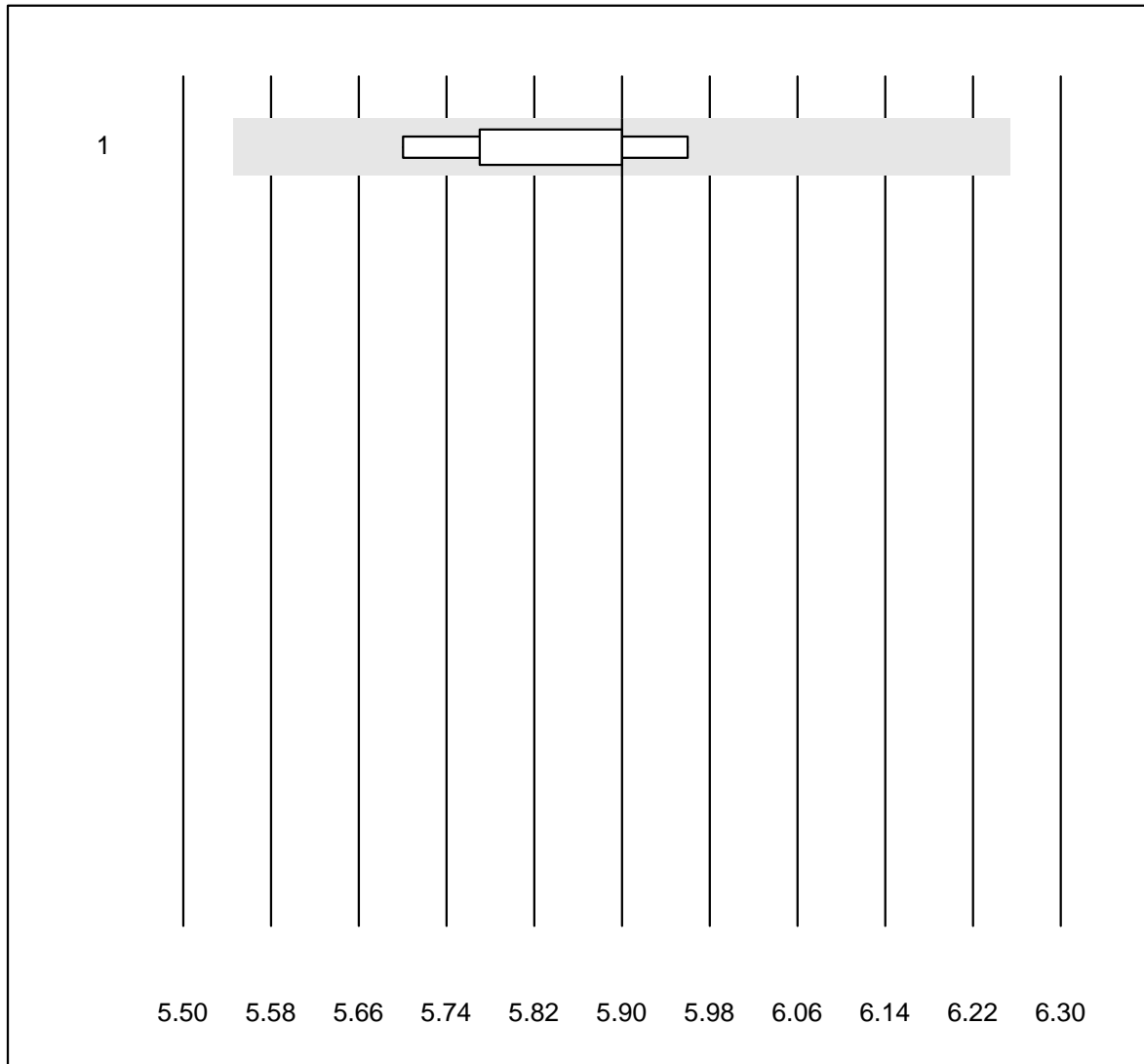
No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 OPTI CCA	12	91.7	8.3	0.0	18.52	6.8	e*

pH CCA



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 OPTI CCA	11	100.0	0.0	0.0	7.59	0.3	e

Potassium CCA

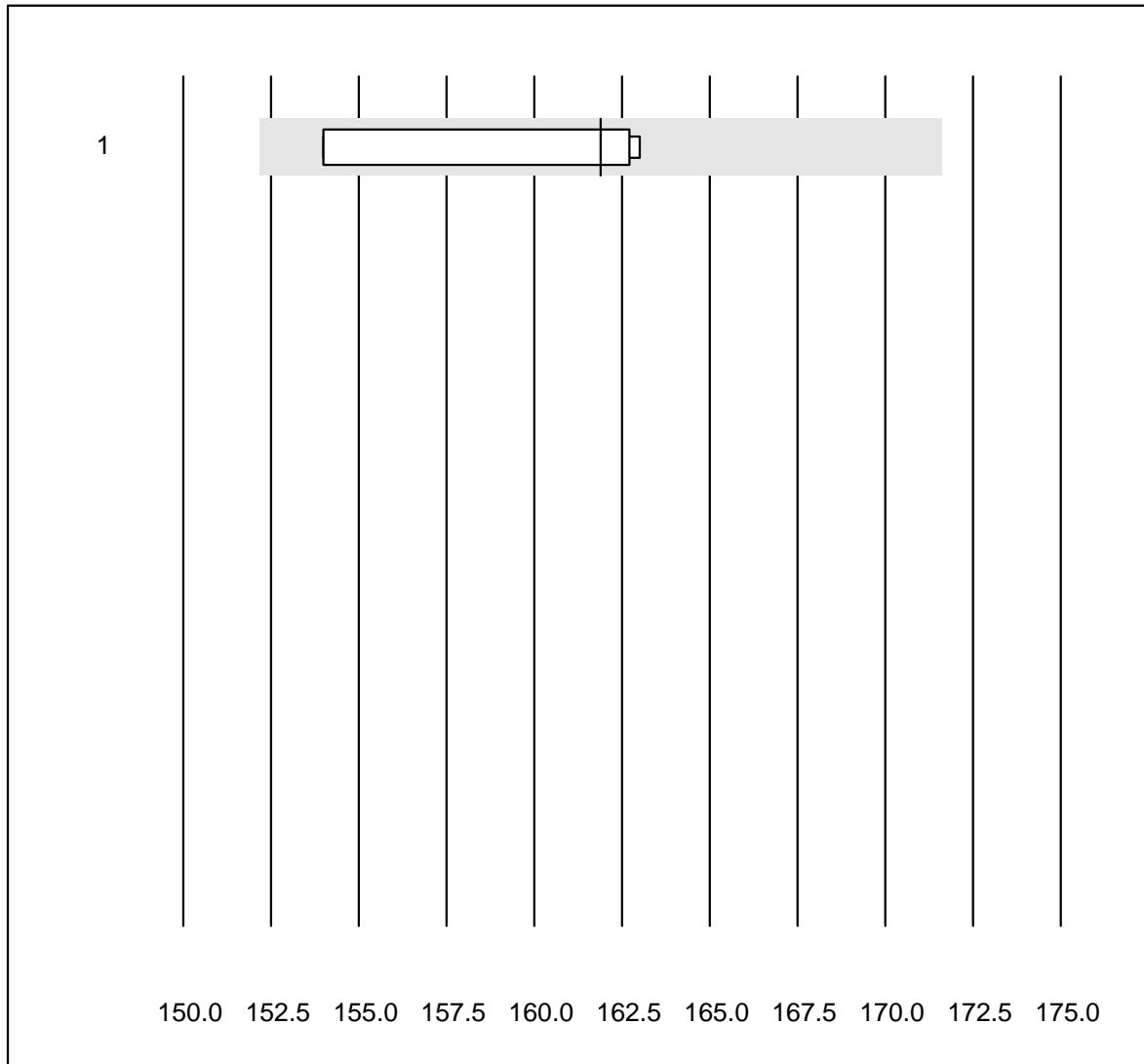


QUALAB tolerance : 6 %

Potassium CCA (mmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 OPTI CCA	5	100.0	0.0	0.0	5.9	1.8	e*

Sodium CCA

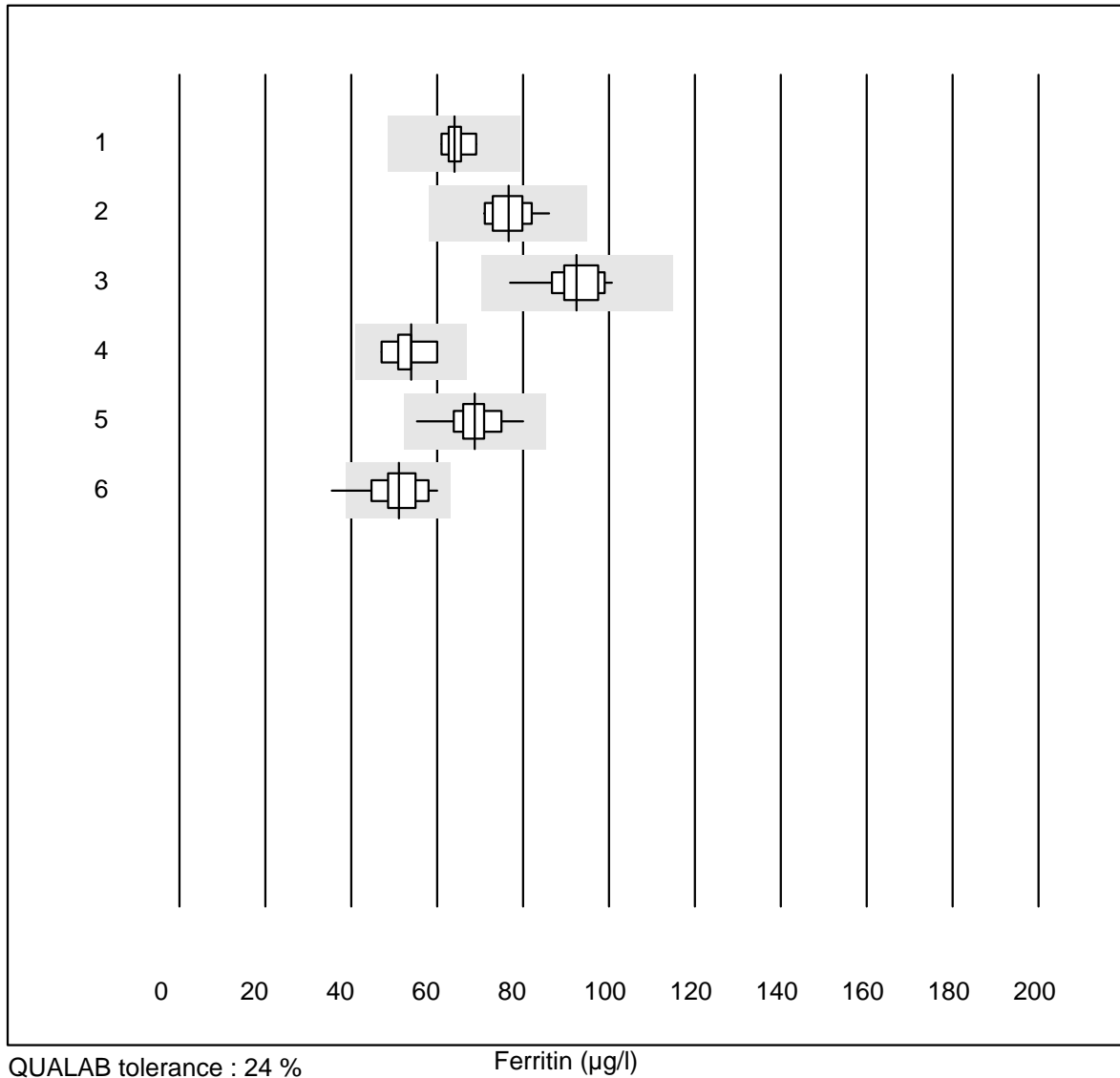


QUALAB tolerance : 6 %

Sodium CCA (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	OPTI CCA	4	100.0	0.0	0.0	161.9	2.6	e*

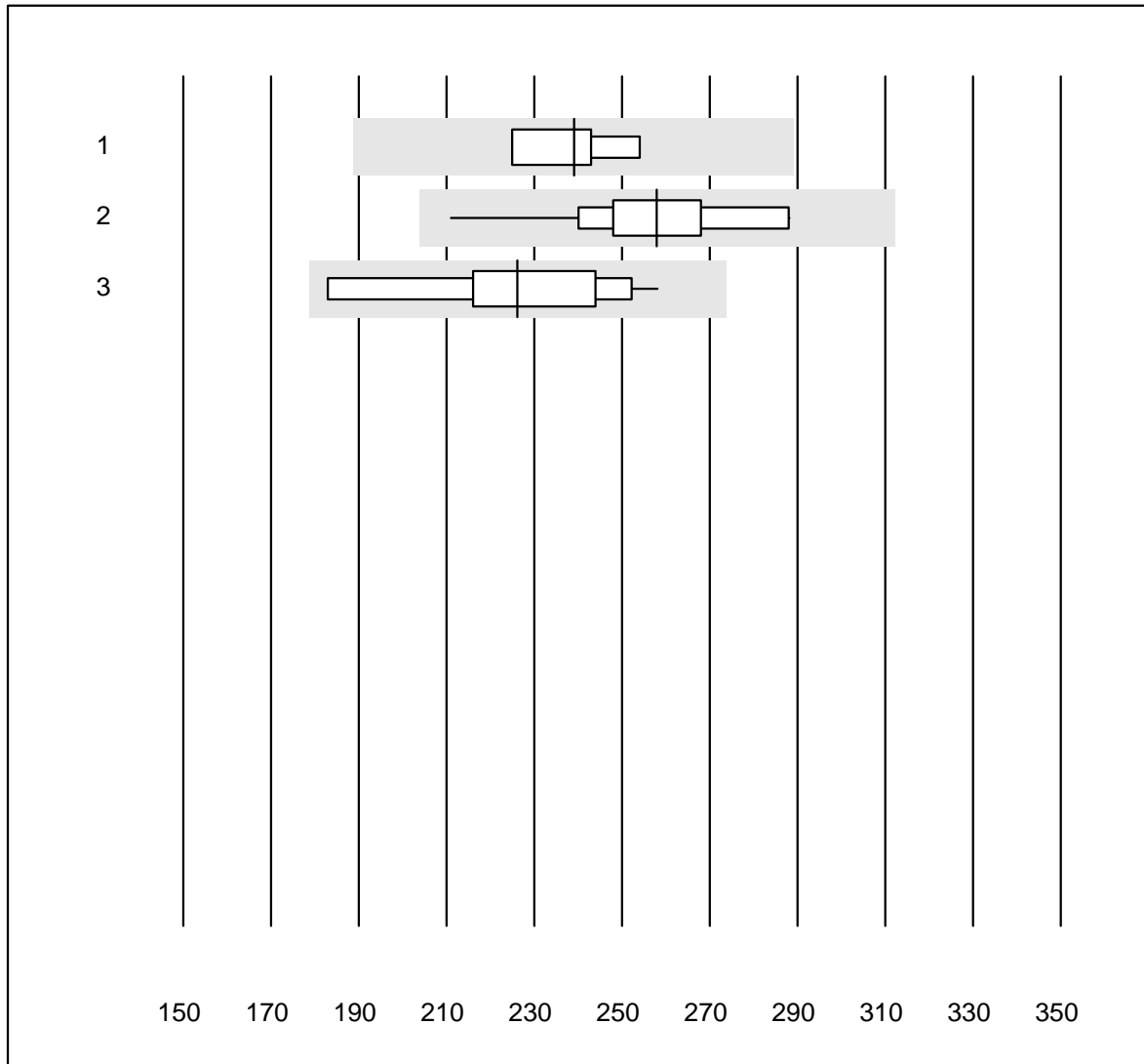
Ferritin



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Beckman	8	100.0	0.0	0.0	63.95	4.4	e
2	Cobas E / Elecsys	18	100.0	0.0	0.0	76.57	5.3	e
3	Architect	12	100.0	0.0	0.0	92.52	7.0	e
4	Mini Vidas	9	100.0	0.0	0.0	54.00	7.7	e
5	AFIAS	43	100.0	0.0	0.0	68.71	7.4	e
6	Eurolyser	17	94.1	5.9	0.0	51.02	10.9	e

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

Vitamin B12



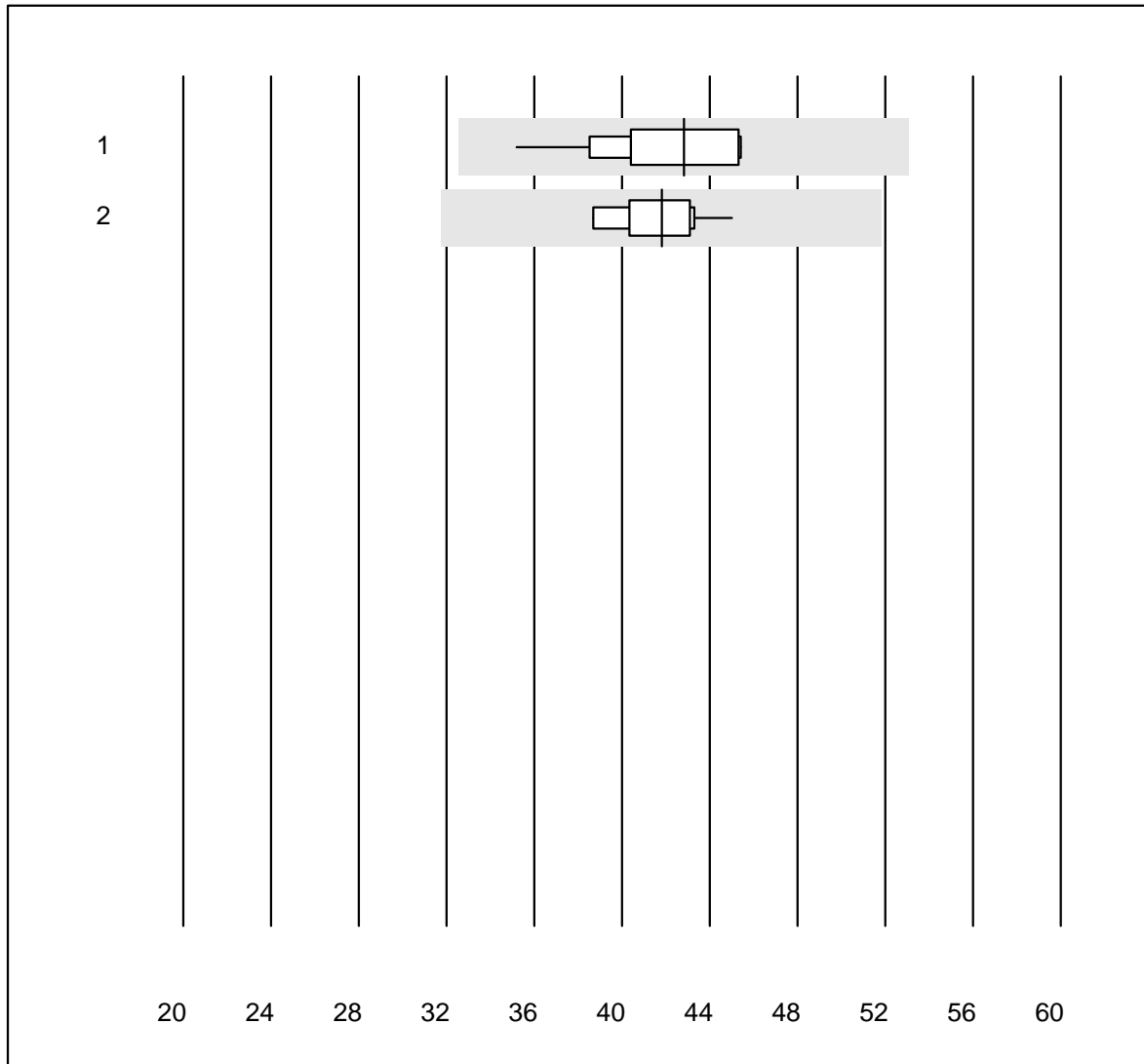
QUALAB tolerance : 21 %

Vitamin B12 (pmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	4	100.0	0.0	0.0	239.00	5.1	e*
2	Cobas E / Elecsys	18	100.0	0.0	0.0	257.97	7.1	e
3	Architect	11	90.9	0.0	9.1	226.20	9.8	e*

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

Folate



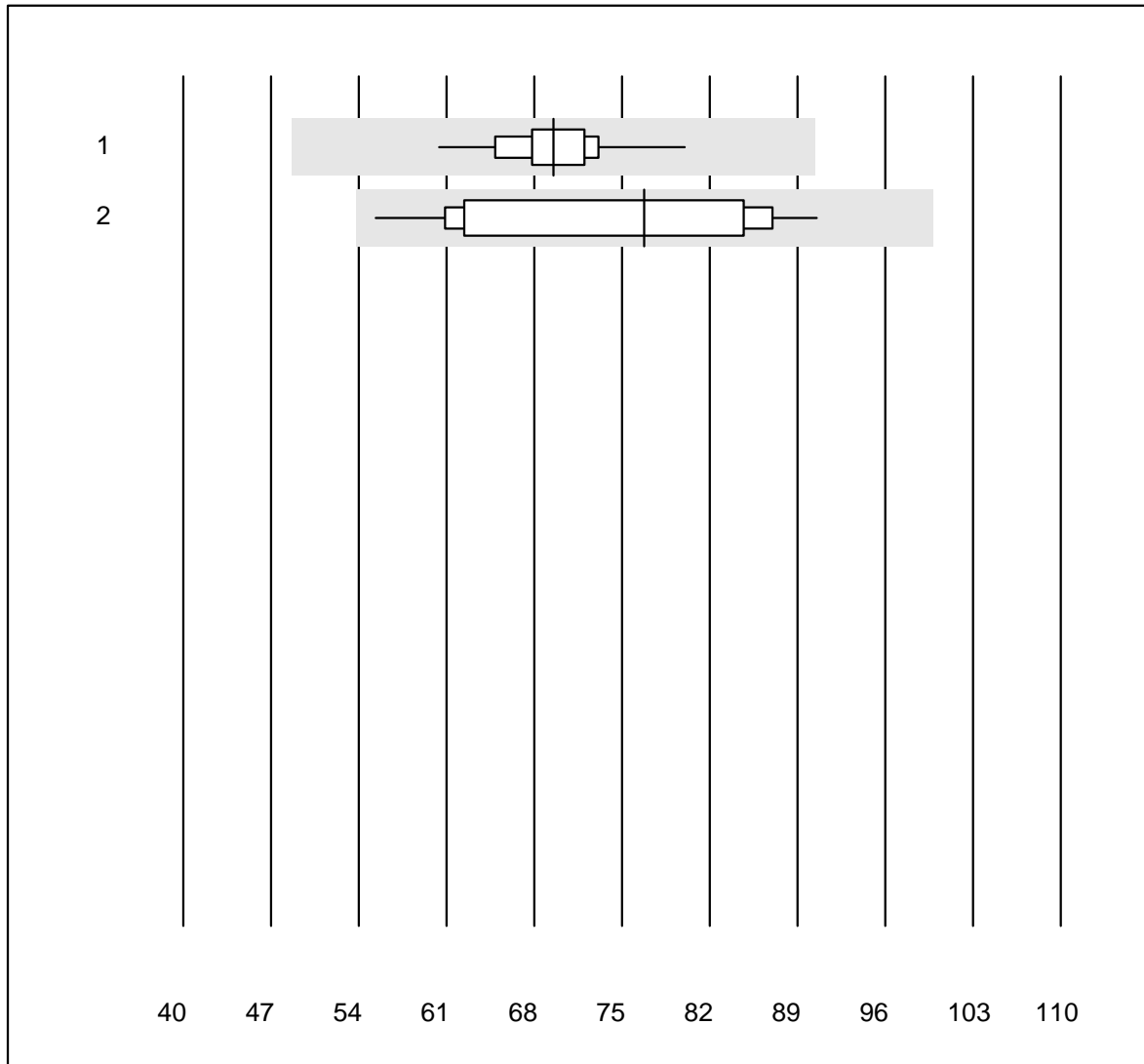
QUALAB tolerance : 24 %

Folate (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	18	100.0	0.0	0.0	42.81	7.4	e
2	Architect	10	100.0	0.0	0.0	41.80	4.7	e

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

Holotranscobalamine

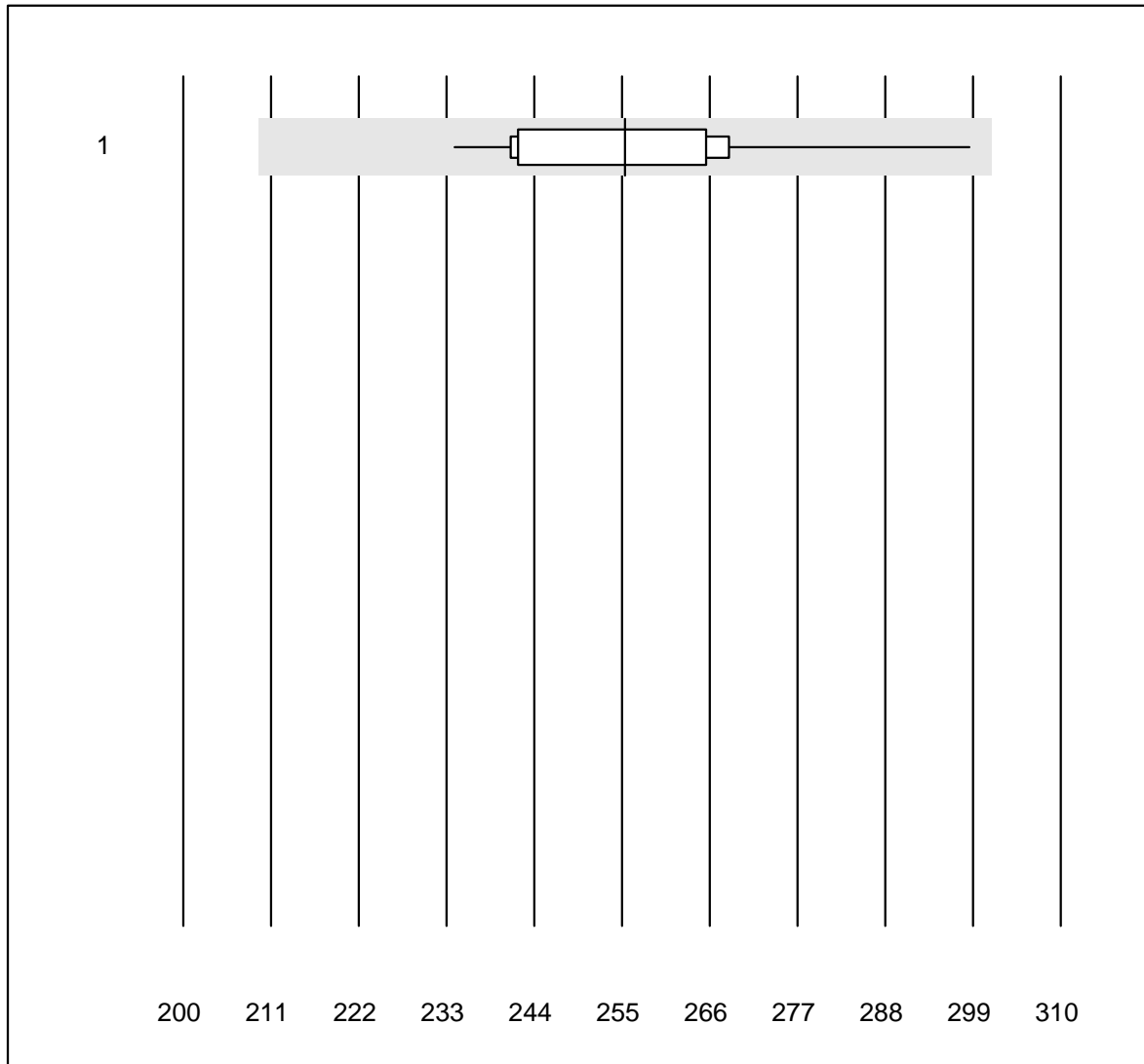


MQ tolerance : 30 %

Holotranscobalamine (pmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Architect	13	100.0	0.0	0.0	69.5	6.8	e
2	Other methods	22	95.5	0.0	4.5	76.8	15.4	e

Bilirubin total Neo



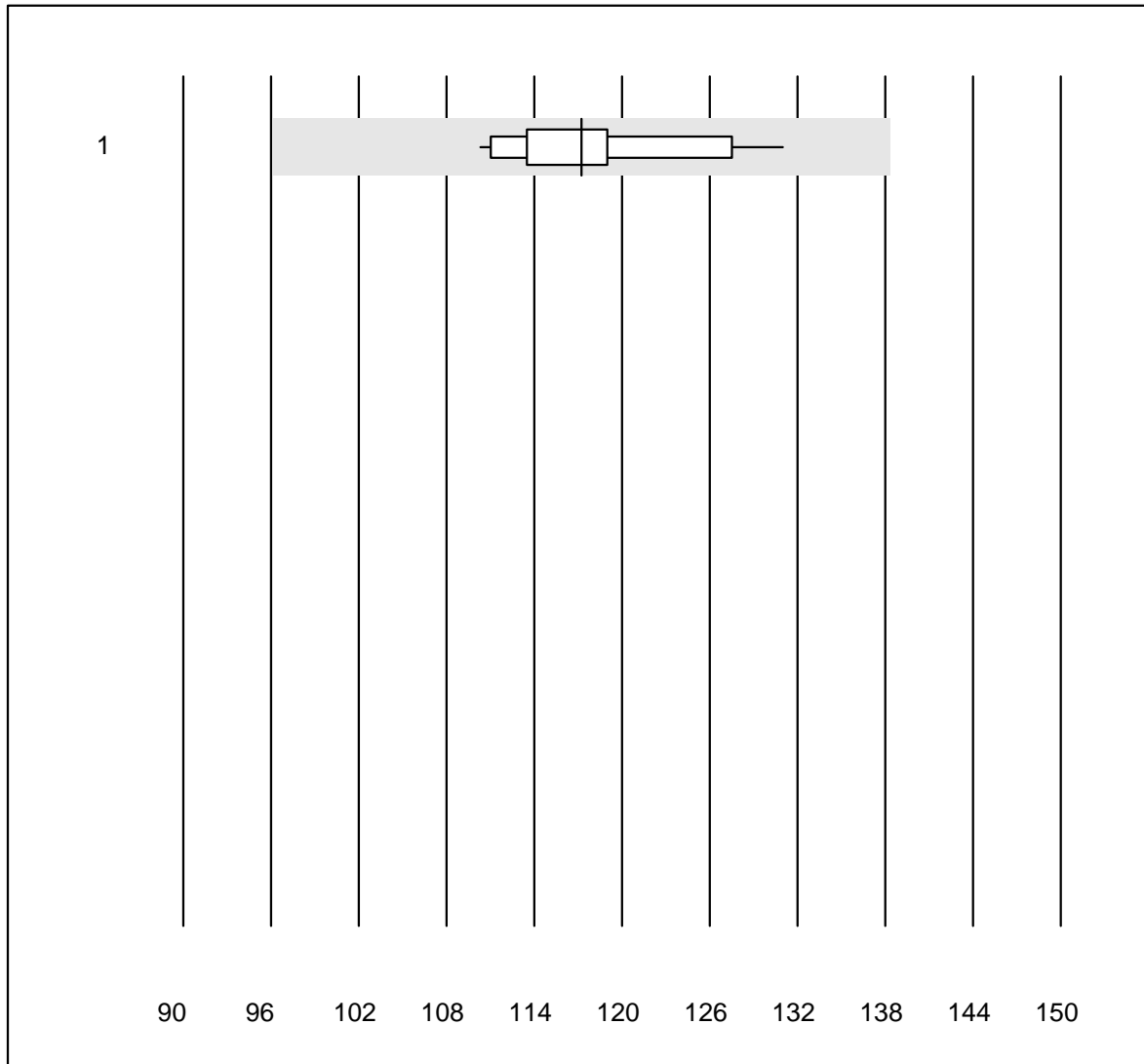
QUALAB tolerance : 18 %

Bilirubin total Neo ($\mu\text{mol/l}$)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	15	100.0	0.0	0.0	255	6.2	e

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

Bilirubin direct



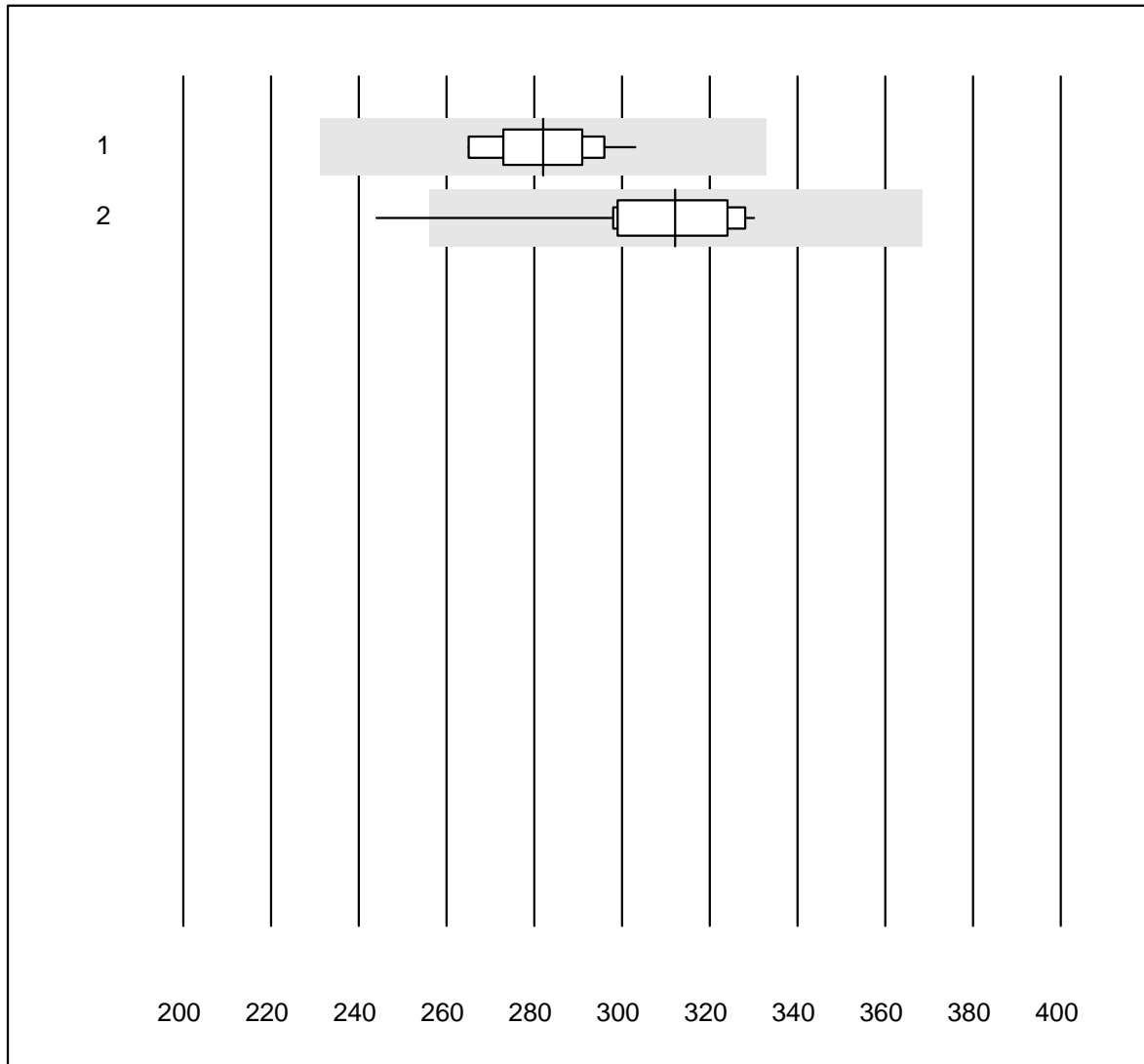
QUALAB tolerance : 18 %

Bilirubin direct (µmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	16	100.0	0.0	0.0	117	4.7	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Bilirubin neonatal

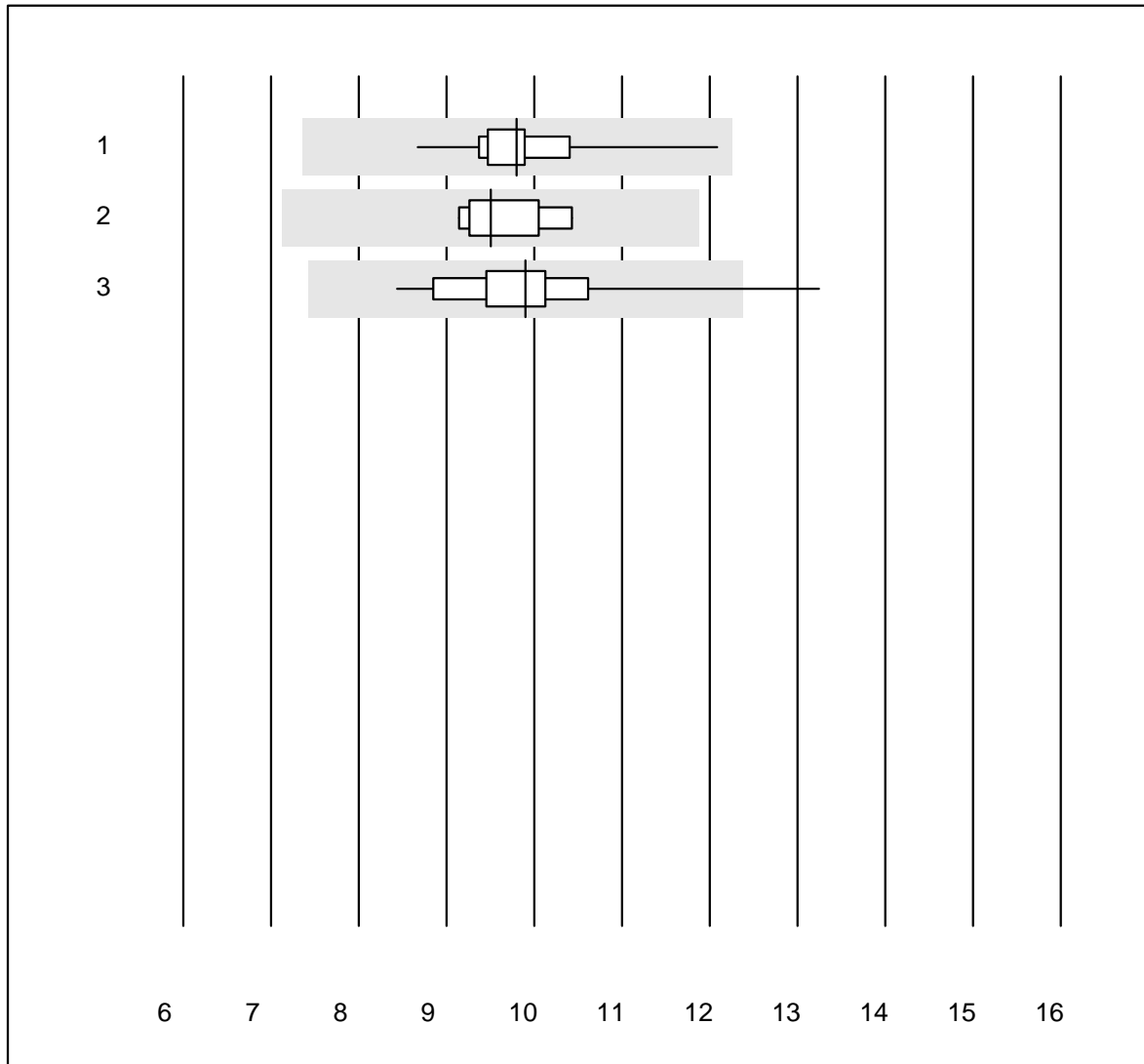


QUALAB tolerance : 18 %

Bilirubin neonatal (µmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ABL700/800	10	100.0	0.0	0.0	282	4.2	e
2	Other methods	12	91.7	8.3	0.0	312	7.6	e*

PSA



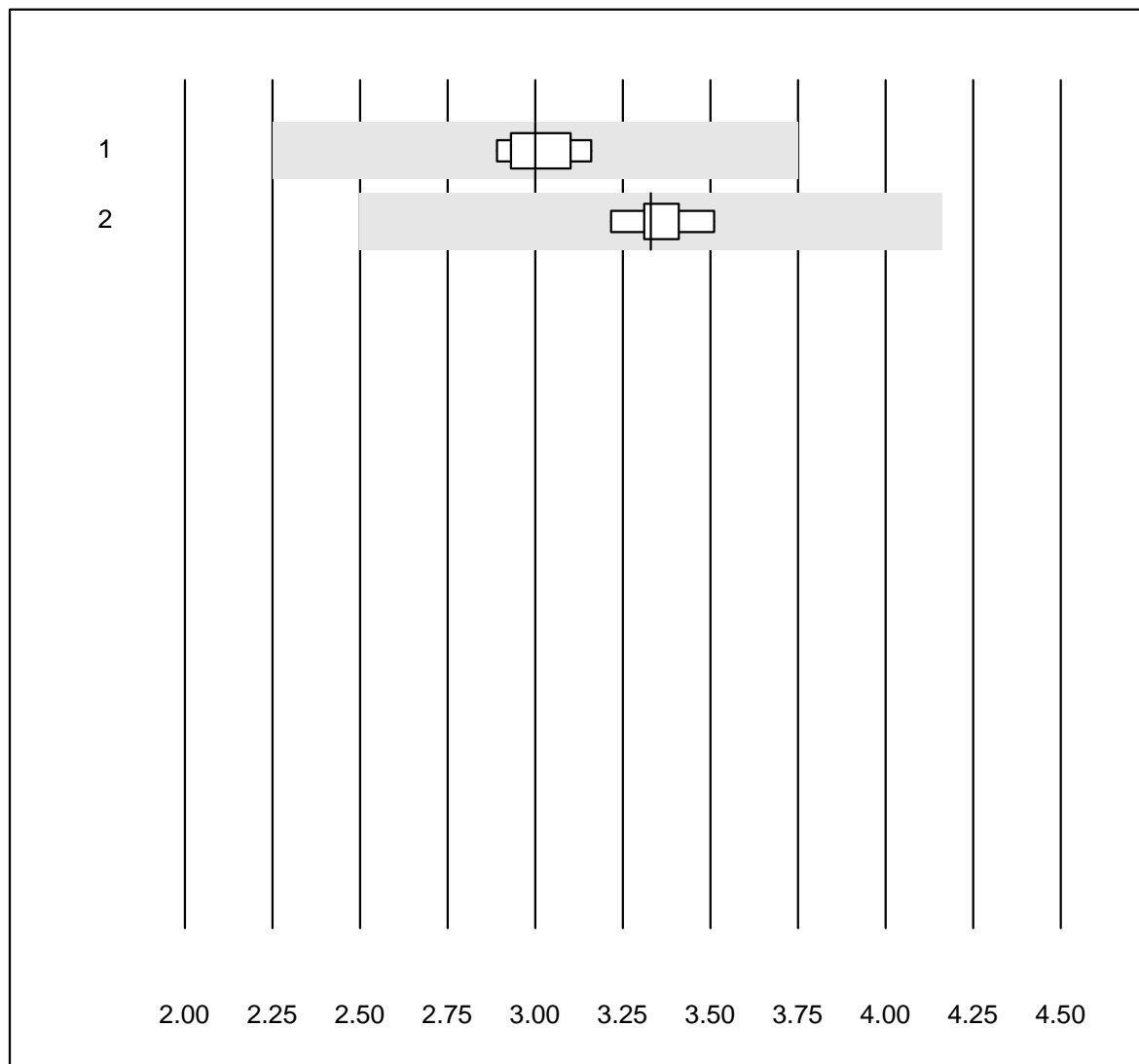
QUALAB tolerance : 25 %

PSA (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	17	100.0	0.0	0.0	9.80	7.1	e
2	Architect	7	100.0	0.0	0.0	9.50	4.7	e
3	AFIAS	25	96.0	4.0	0.0	9.90	9.5	e

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

free PSA



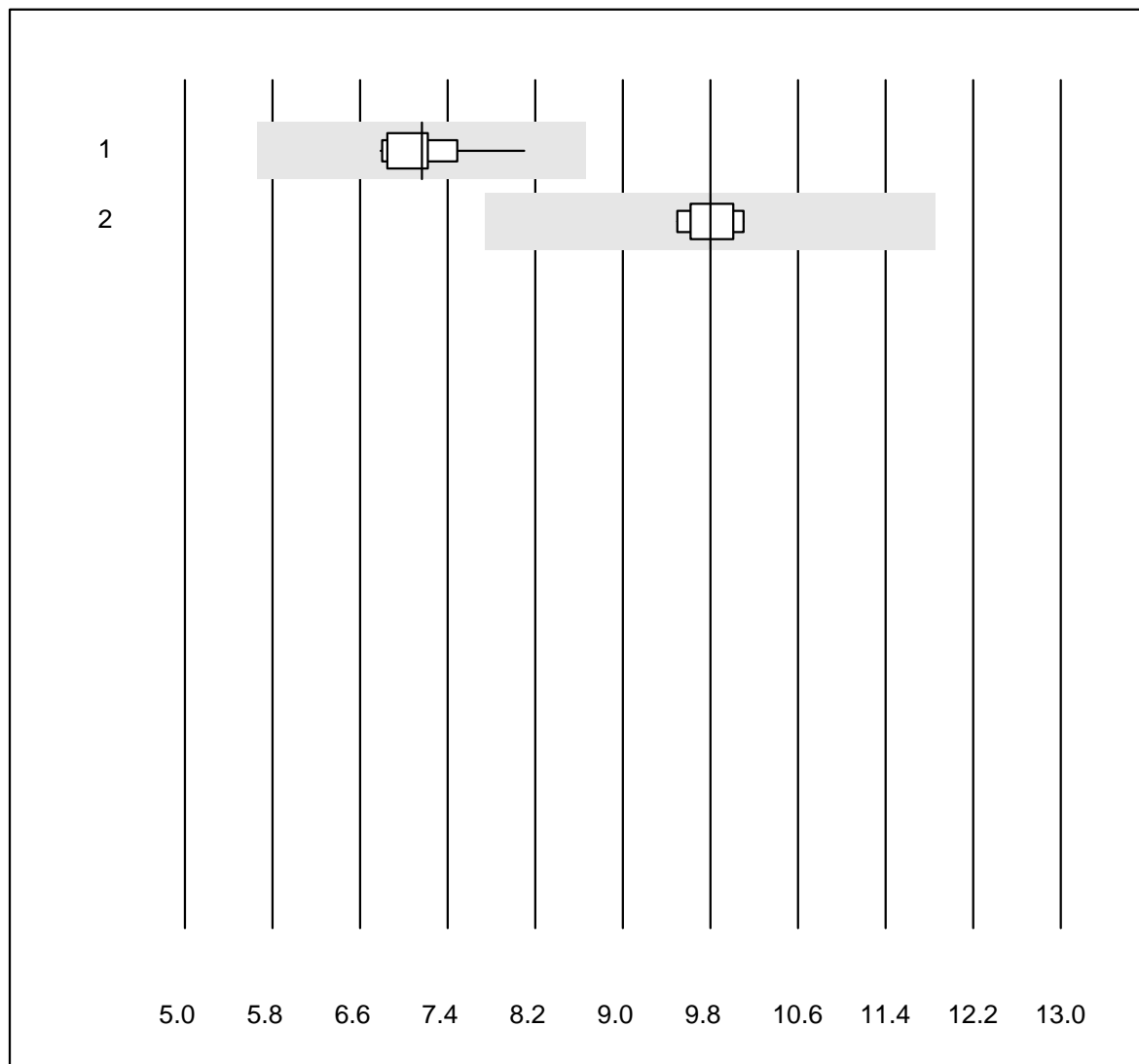
QUALAB tolerance : 25 %

free PSA (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	9	100.0	0.0	0.0	3.00	3.1	e
2	Architect	5	100.0	0.0	0.0	3.33	3.3	e

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

CEA



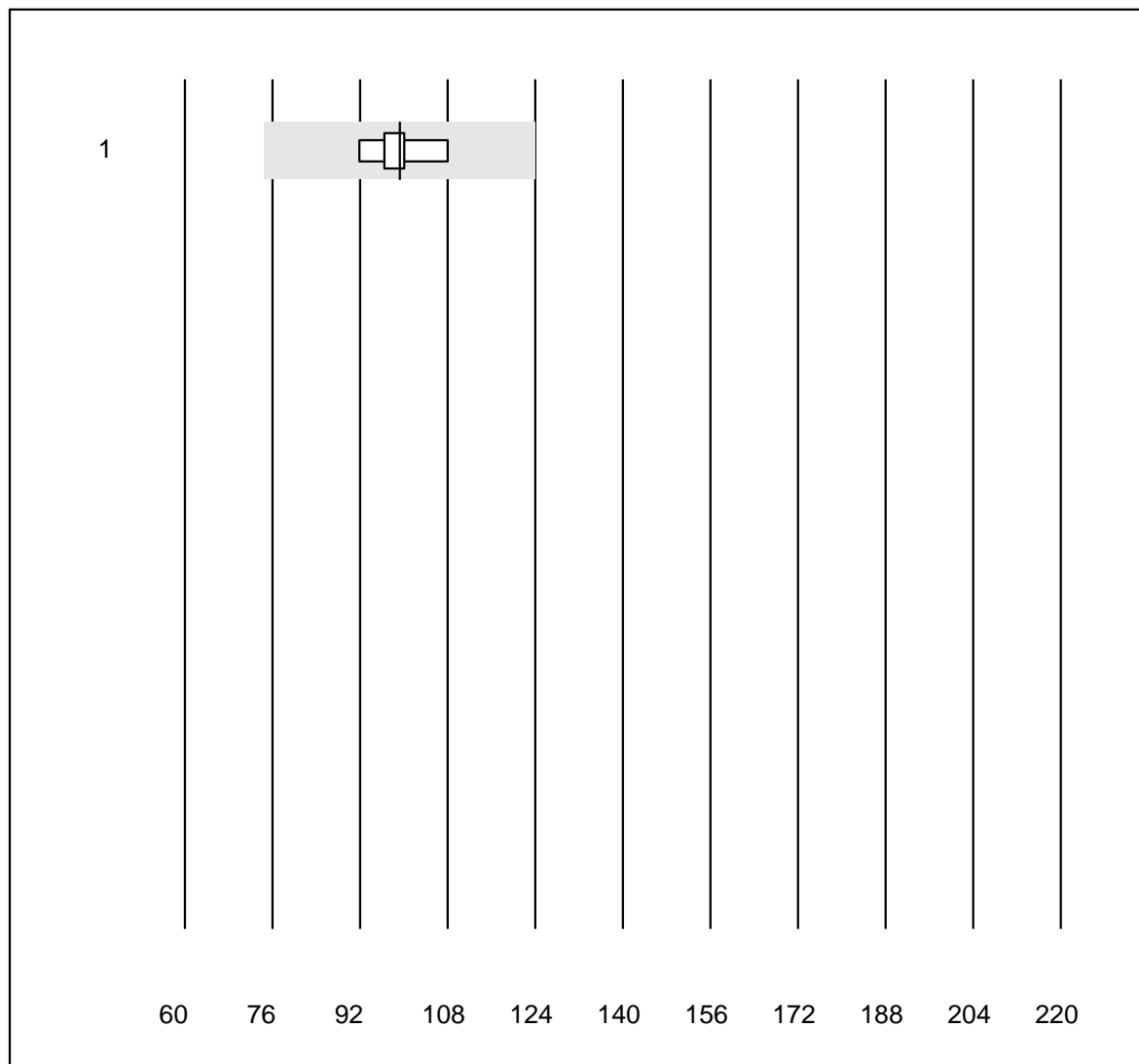
QUALAB tolerance : 21 %

CEA (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	12	100.0	0.0	0.0	7.2	5.1	e
2	Architect	6	100.0	0.0	0.0	9.8	2.4	e

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

CA 125



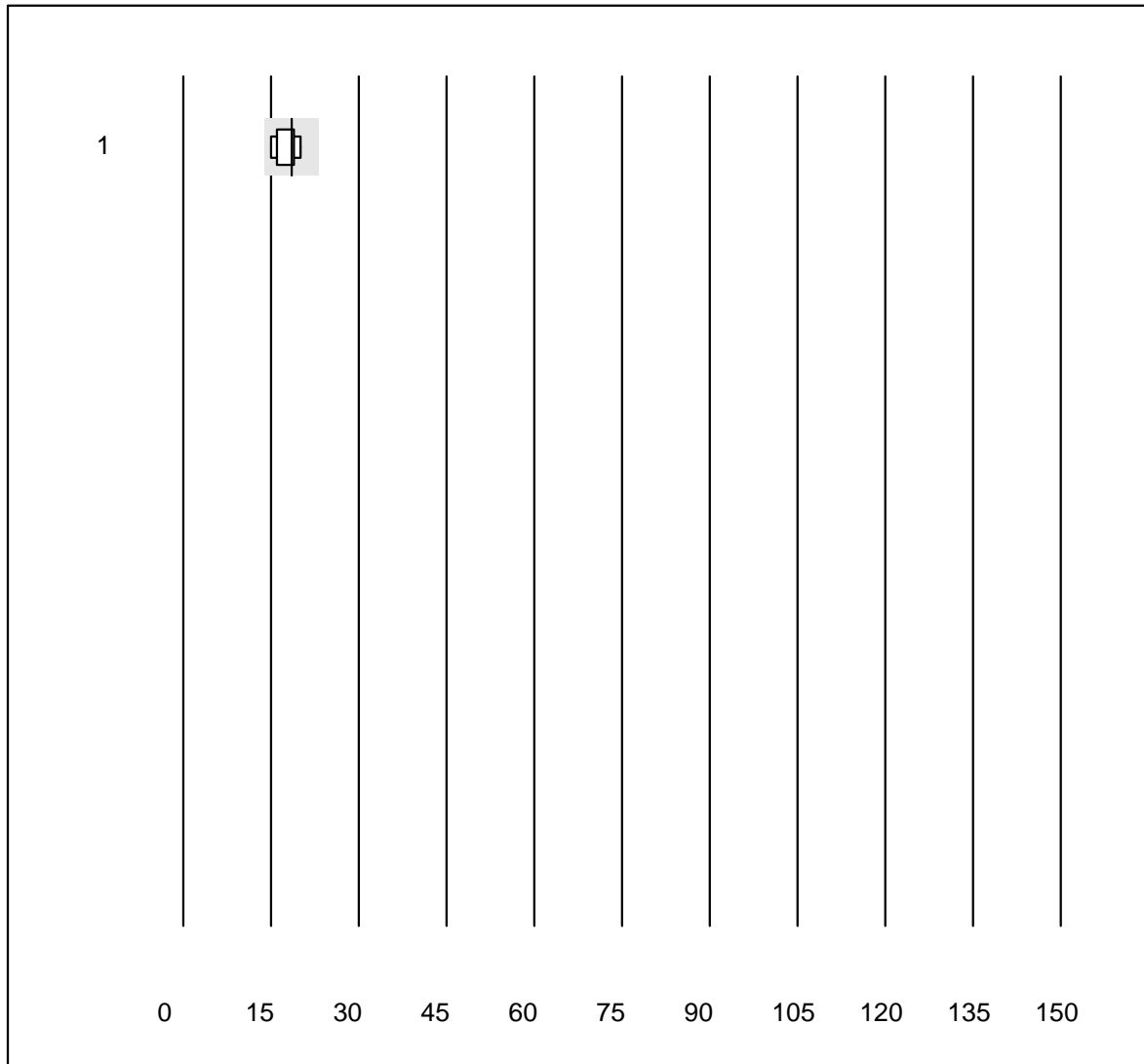
MQ tolerance : 25 %

CA 125 (kIU/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	7	100.0	0.0	0.0	99.2	4.9	e

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

CA 19-9



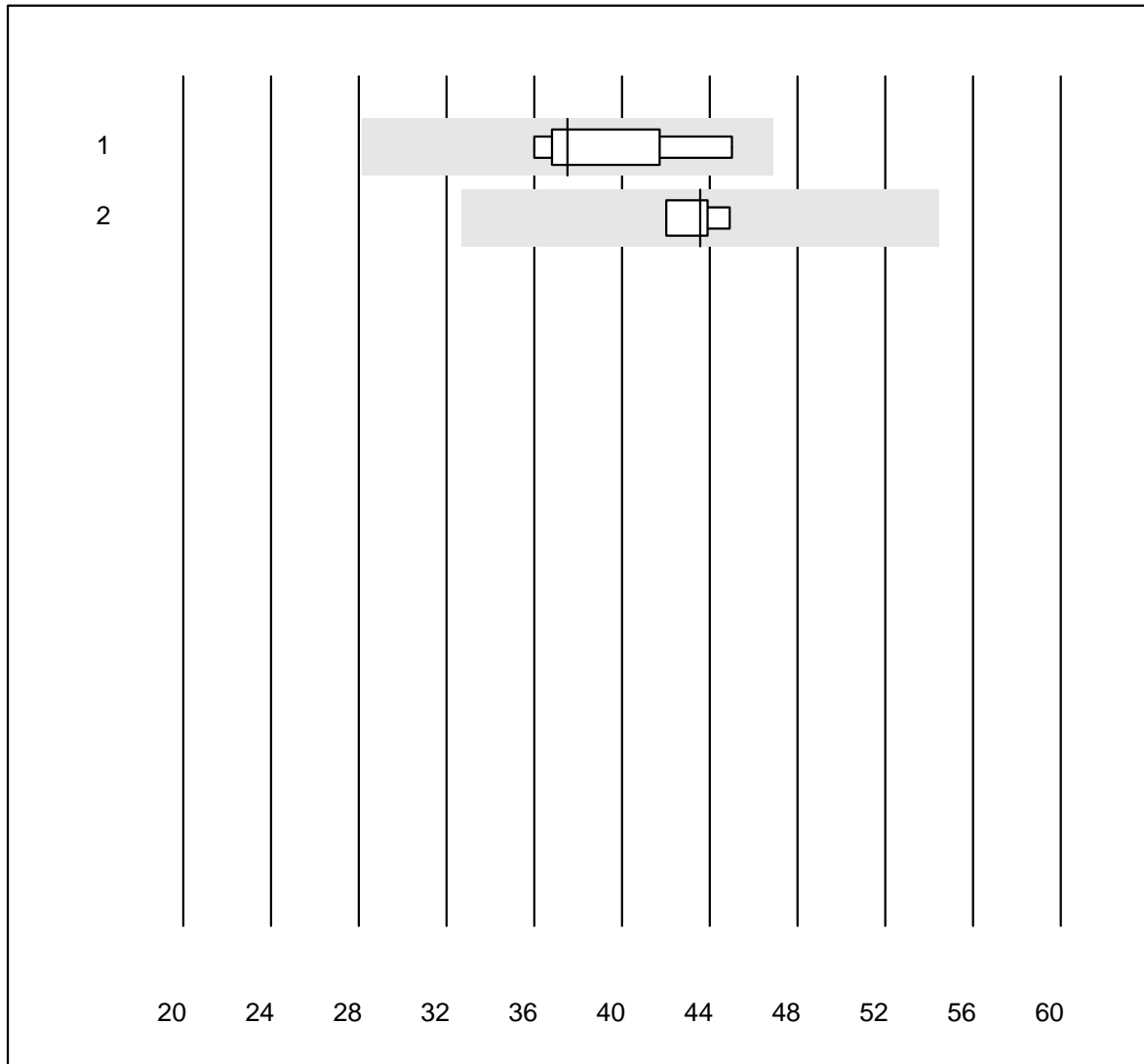
MQ tolerance : 25 %

CA 19-9 (kIU/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	6	100.0	0.0	0.0	18.5	10.7	e*

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

CA 15-3



MQ tolerance : 25 %

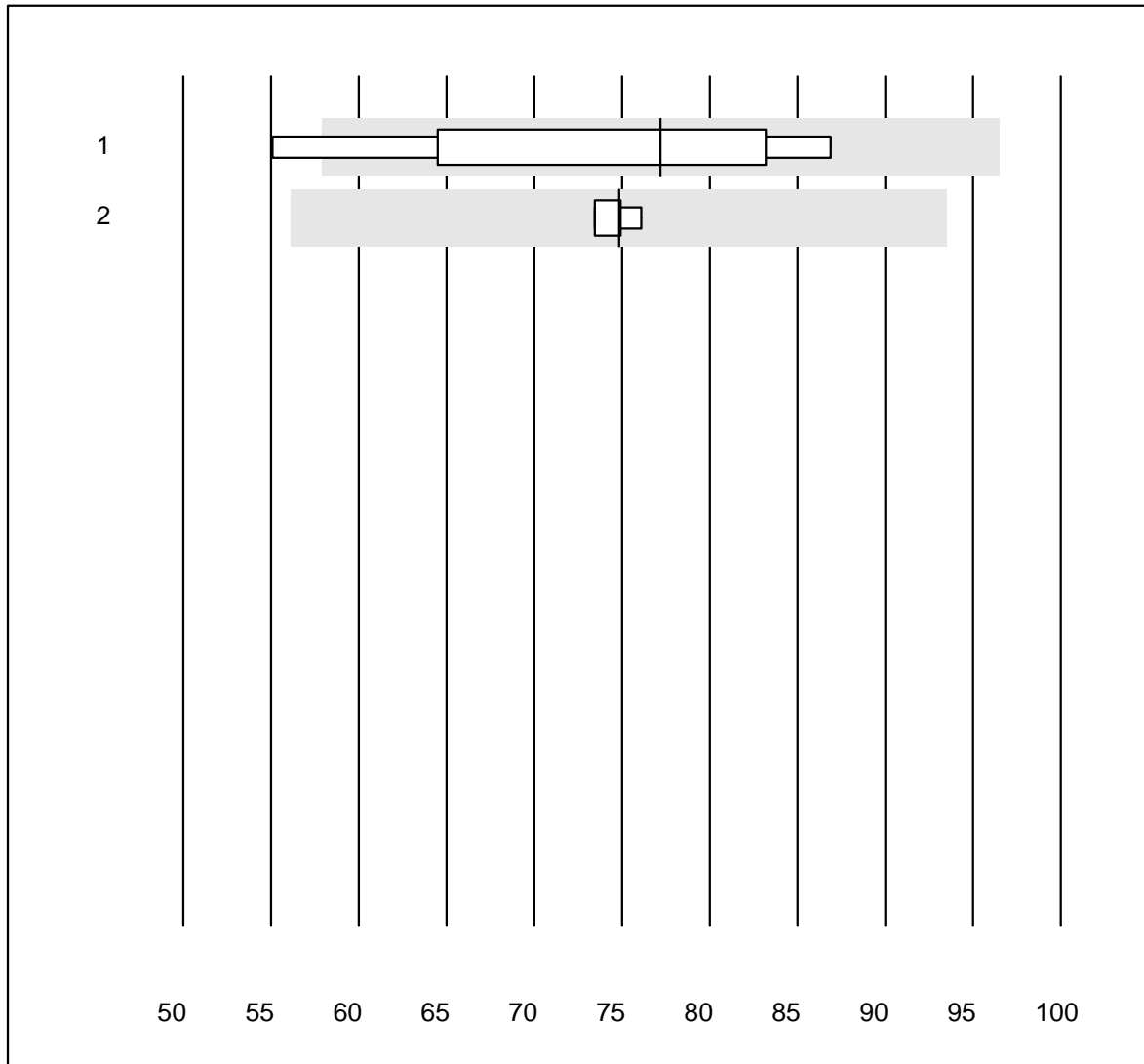
CA 15-3 (kIU/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	9	100.0	0.0	0.0	37.5	8.1	e
2	Architect	4	100.0	0.0	0.0	43.6	2.8	e

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

K14 Tumor Markers

AFP



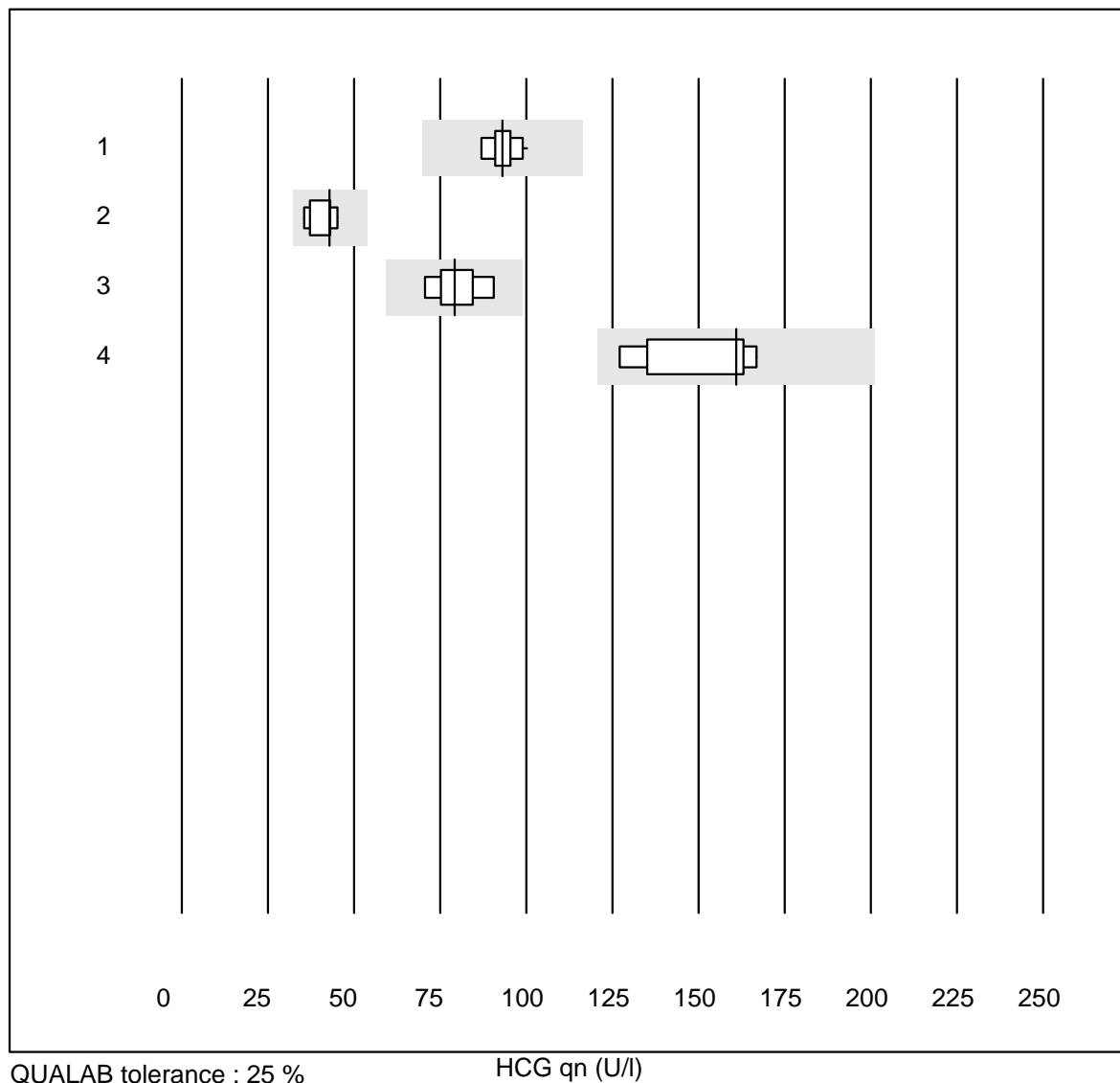
QUALAB tolerance : 25 %

AFP (µg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	7	85.7	14.3	0.0	77.2	15.7	a
2	Architect	4	100.0	0.0	0.0	74.8	1.4	e

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

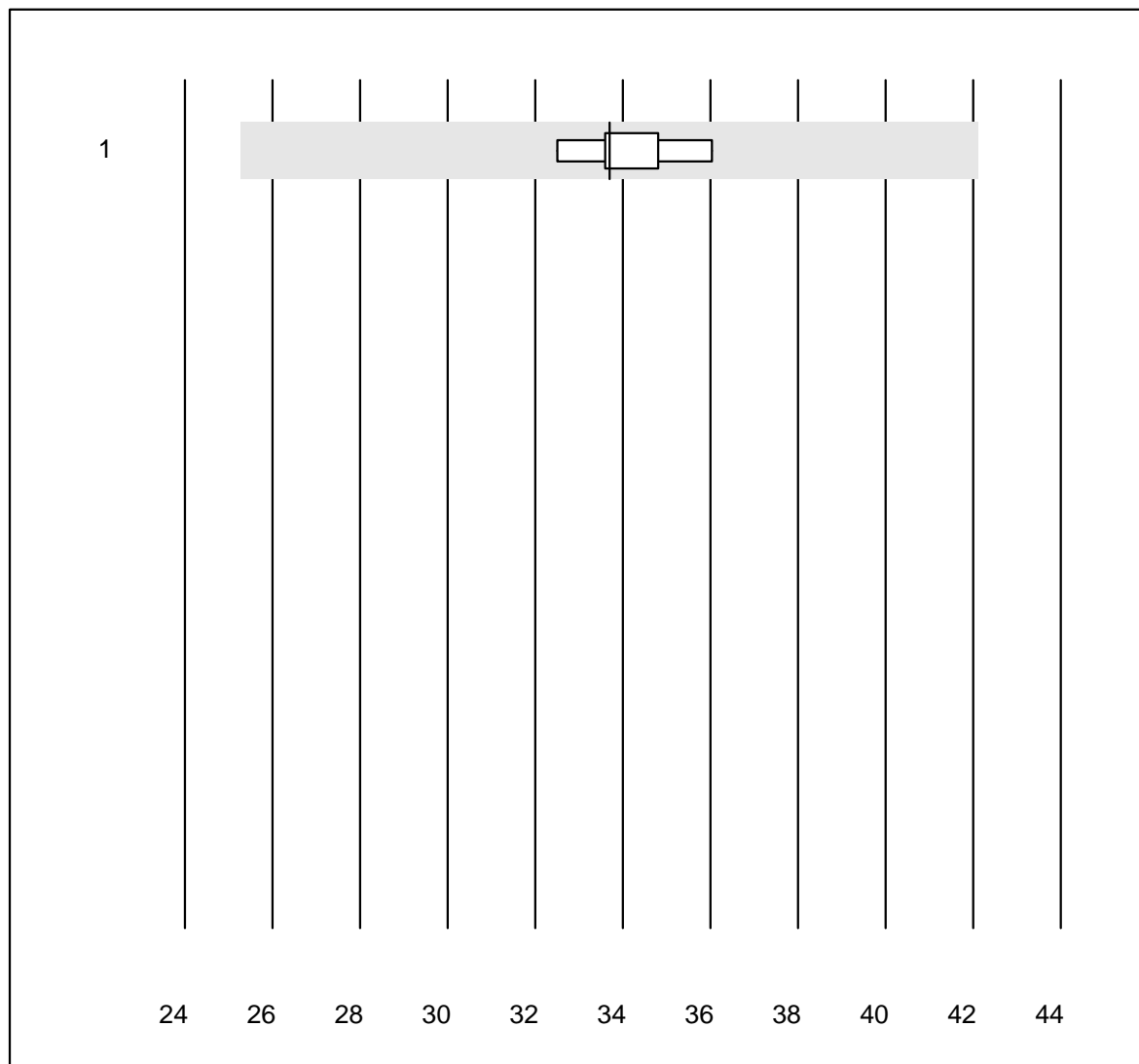
HCG qn



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas E / Elecsys	10	100.0	0.0	0.0	93.1	4.4	e
2	VIDAS	9	100.0	0.0	0.0	43.0	9.4	e*
3	Architect	7	100.0	0.0	0.0	79.2	8.0	e*
4	AFIAS	8	75.0	0.0	25.0	161.0	11.0	e*

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

HCG intact



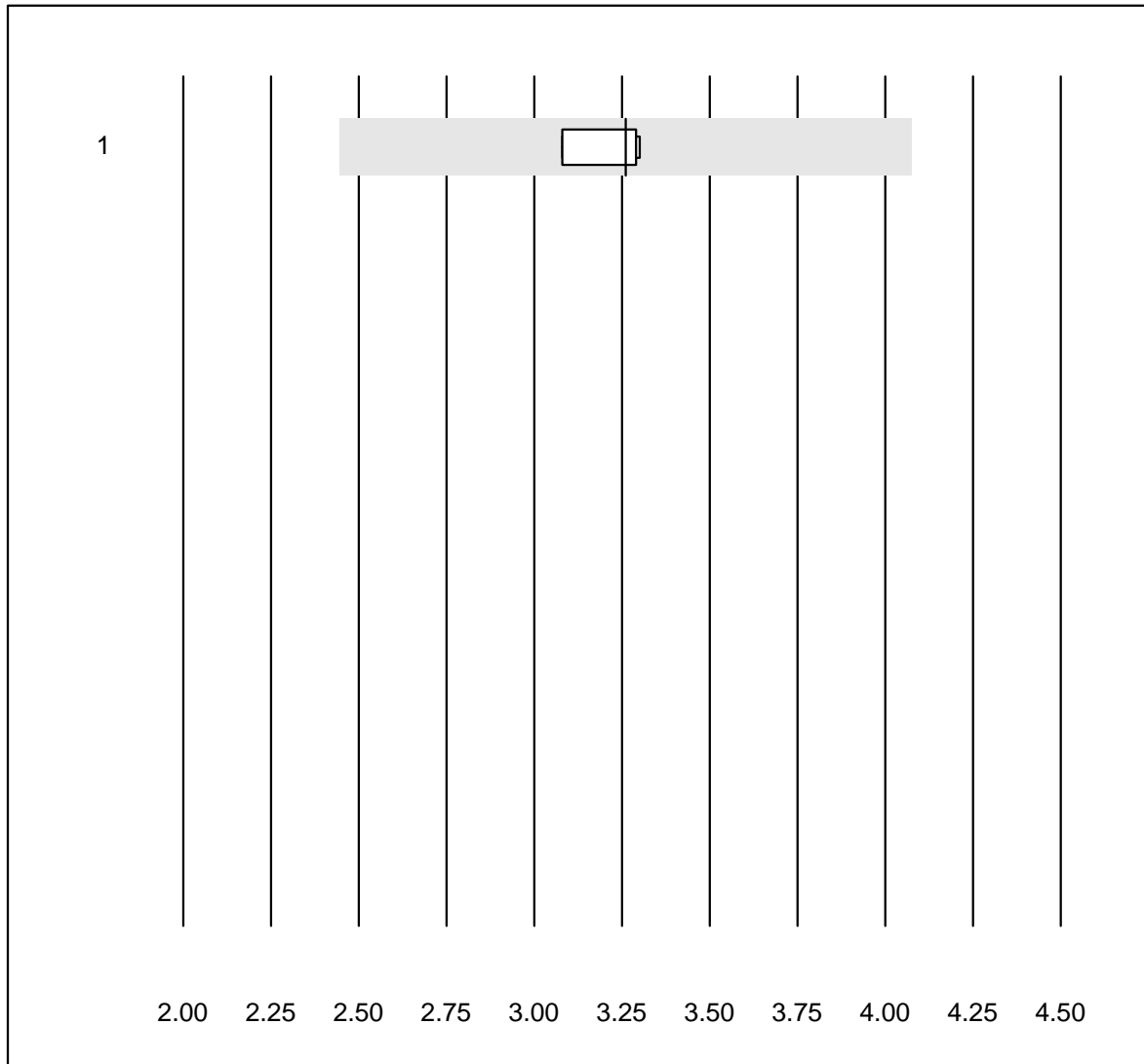
QUALAB tolerance : 25 %

HCG intact (U/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	5	100.0	0.0	0.0	33.7	3.9	e

One result was submitted but not published because the method group was too small. (<4 results per group)

S100



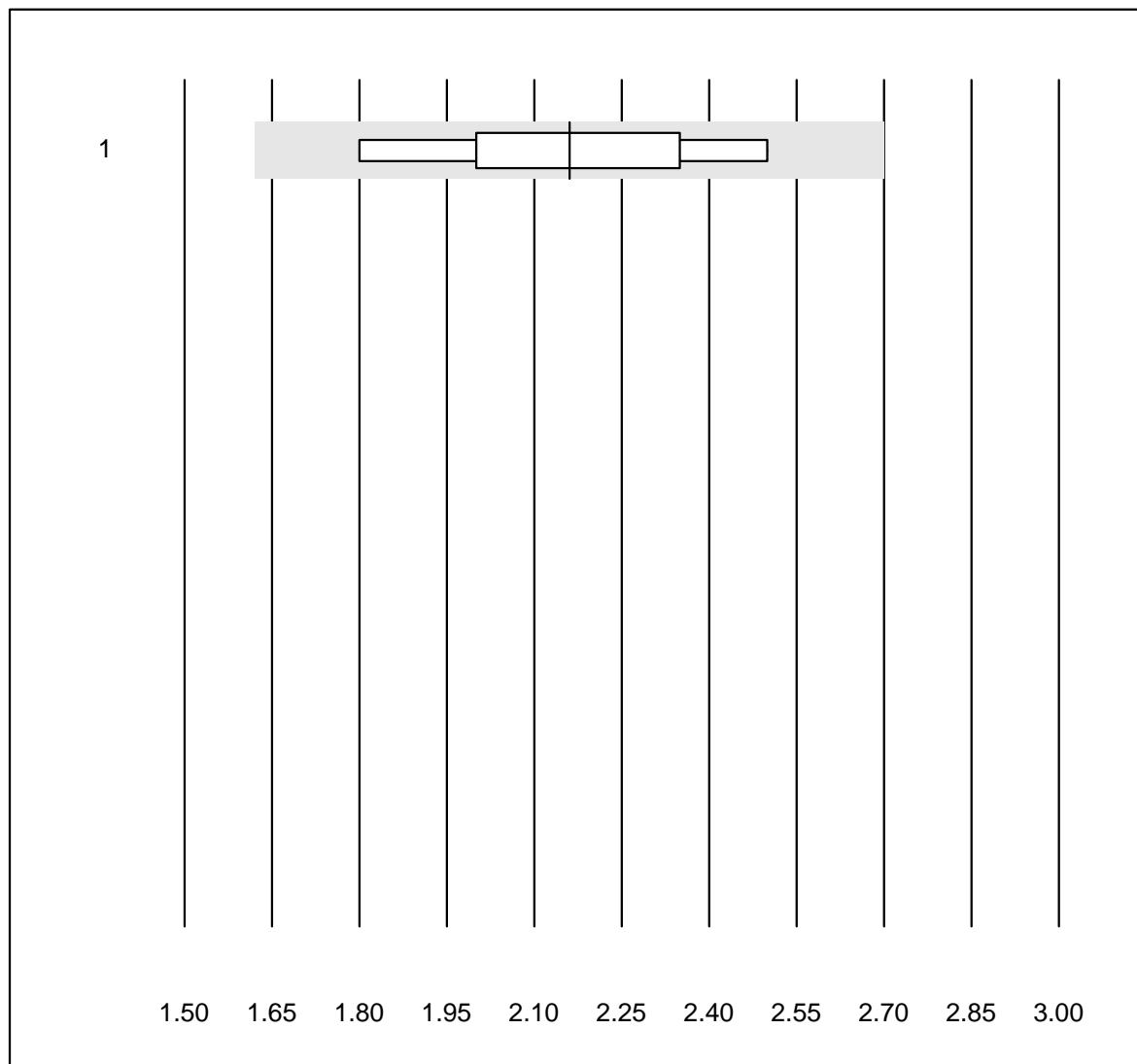
MQ tolerance : 25 %

S100 (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	4	100.0	0.0	0.0	3.26	3.1	e

One result was submitted but not published because the method group was too small. (<4 results per group)

NSE

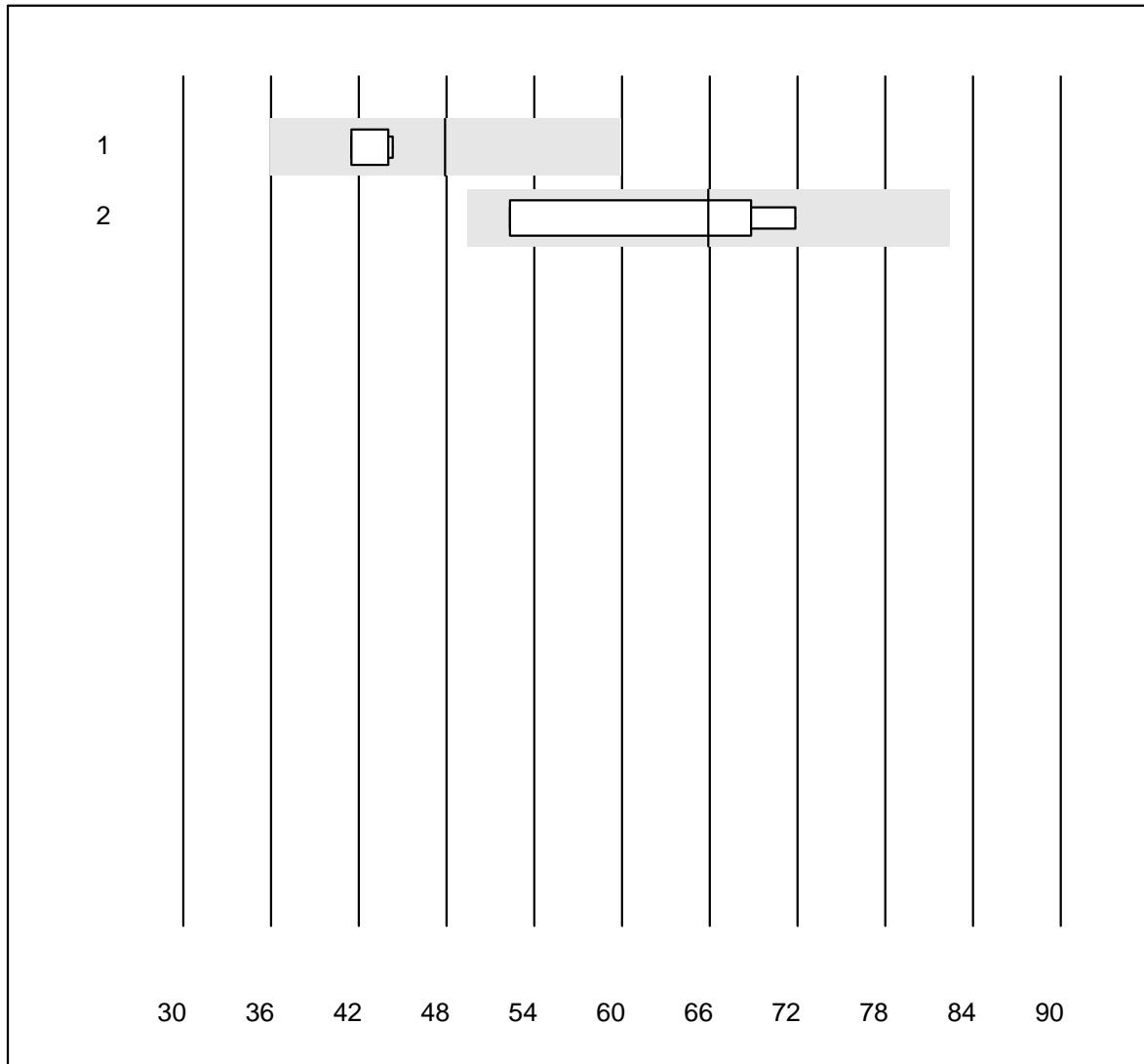


MQ tolerance : 25 %

NSE (ng/ml)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cobas	5	100.0	0.0	0.0	2.2	13.4	a

Thyreoglobulin

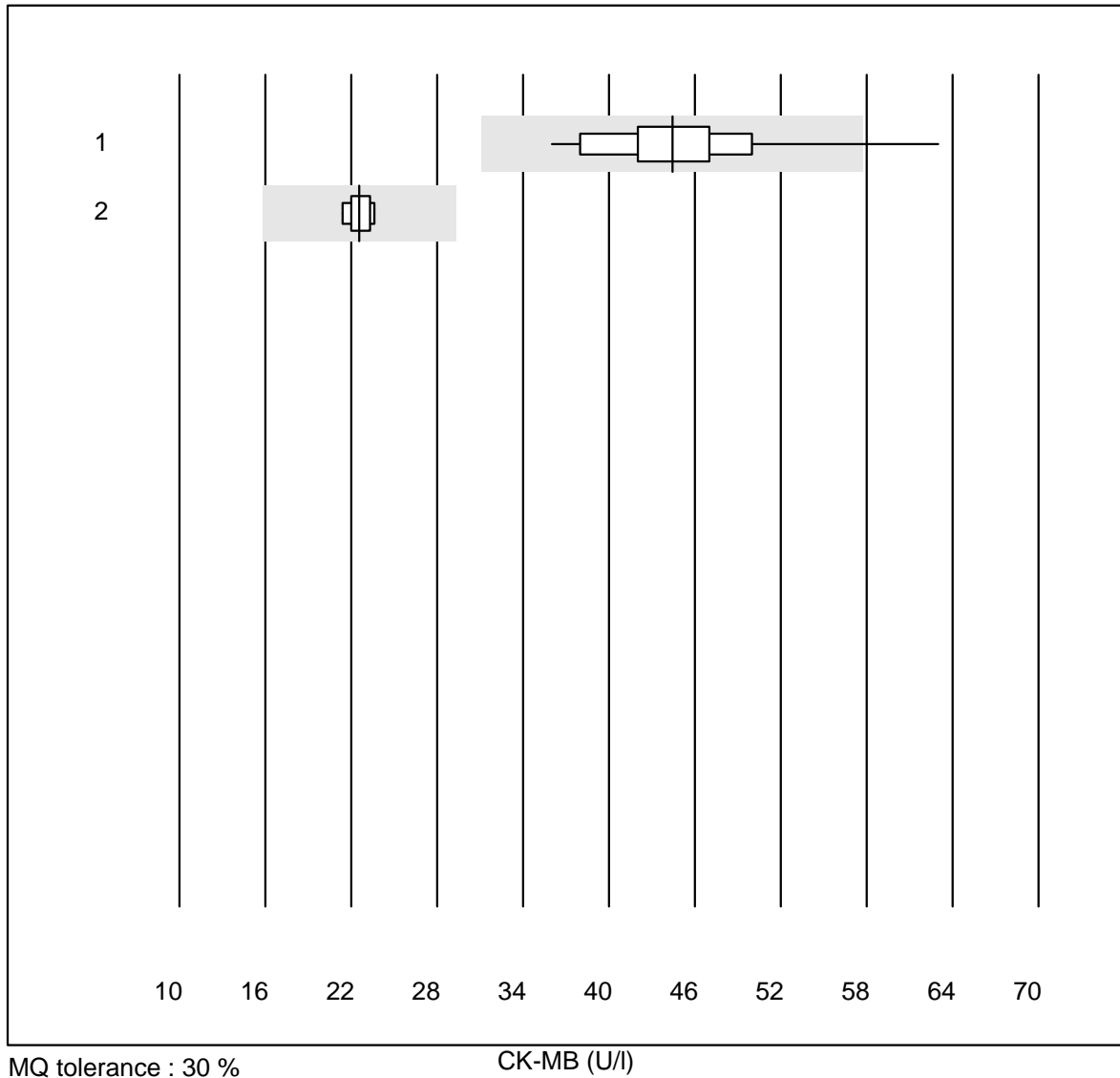


MQ tolerance : 25 %

Thyreoglobulin (µg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	4	100.0	0.0	0.0	47.9	3.3	a
2	Other methods	4	100.0	0.0	0.0	65.9	13.3	a

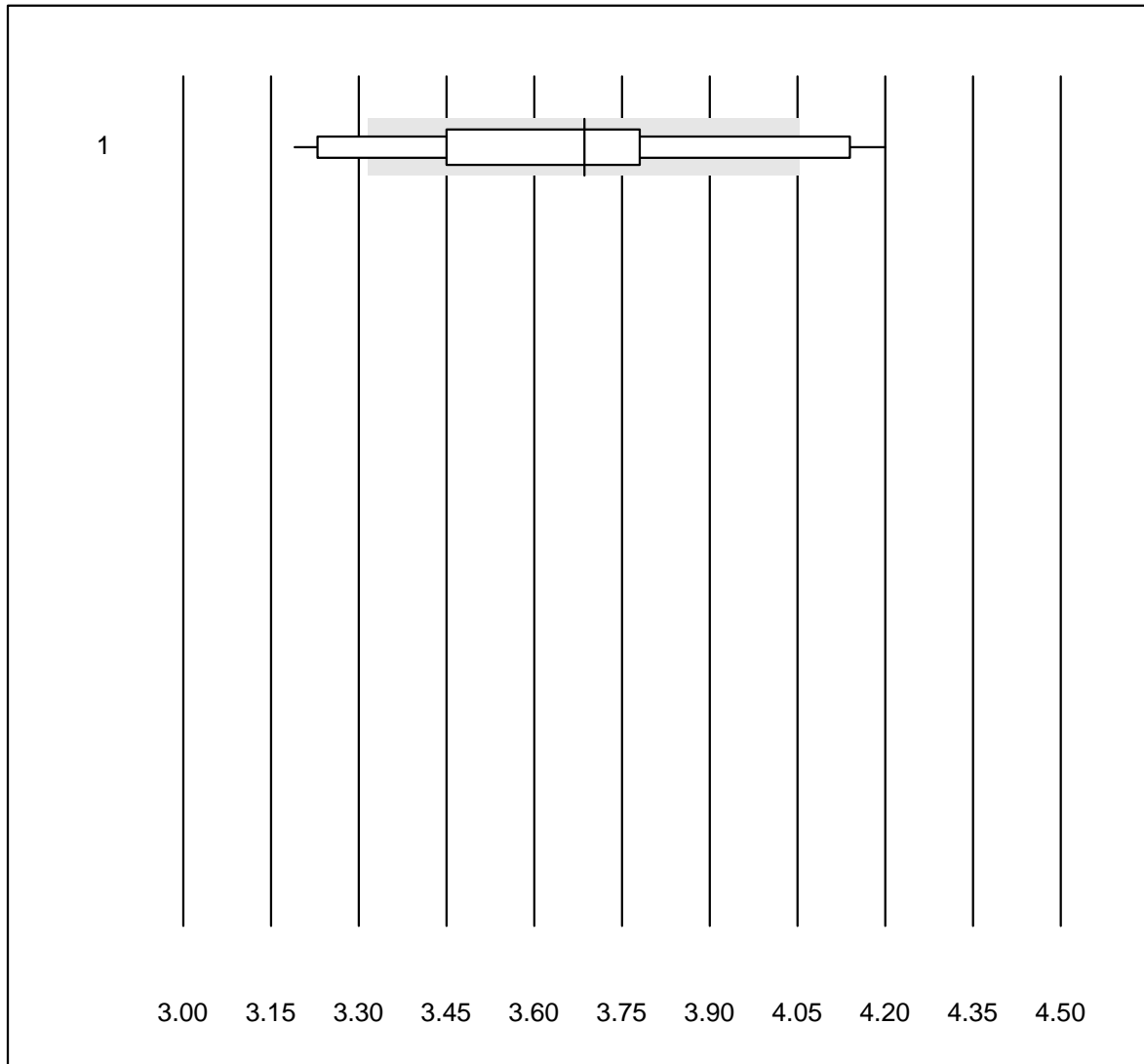
CK-MB



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Fuji Dri-Chem	30	96.7	3.3	0.0	44.4	11.6	e
2	Cobas/Roche	6	100.0	0.0	0.0	22.6	3.8	e

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

Cholesterol PTS

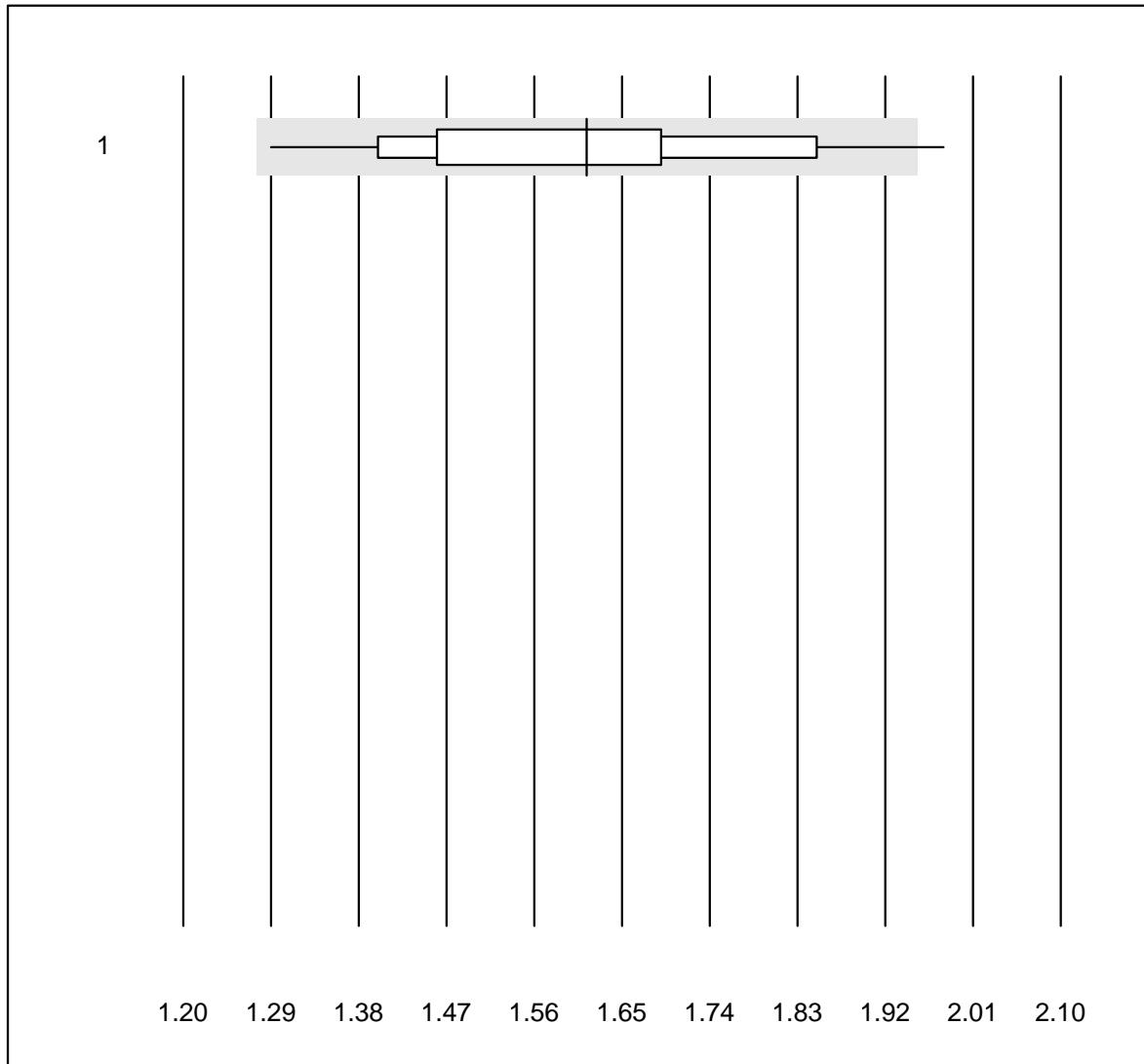


QUALAB tolerance : 10 %

Cholesterol PTS (mmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 CardioChek	17	70.6	23.5	5.9	3.69	7.8	e*

Cholesterol HDL PTS

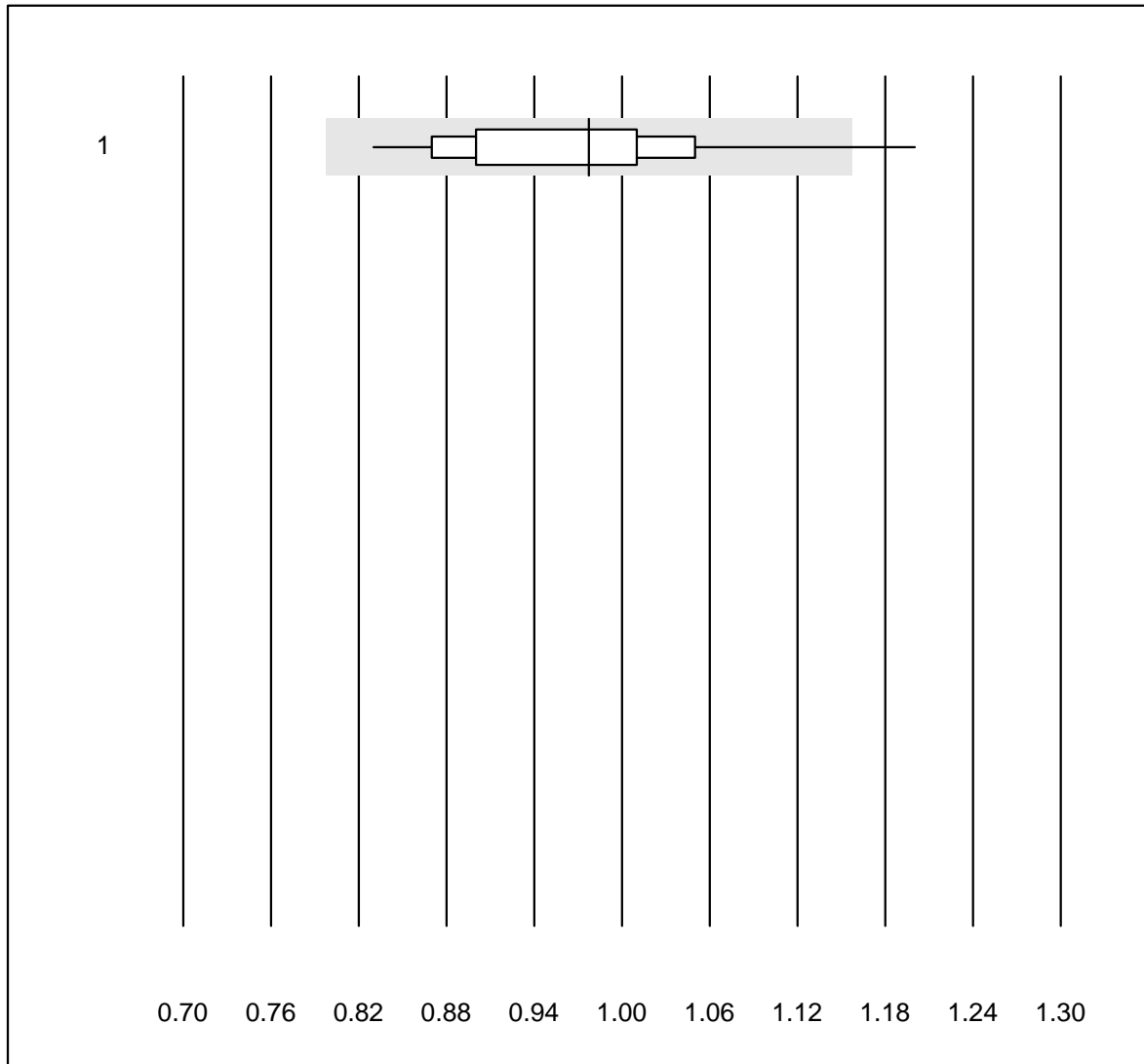


QUALAB tolerance : 21 %

Cholesterol HDL PTS (mmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV% Type
1 CardioChek	17	88.2	5.9	5.9	1.61	10.7 e*

Triglycerides

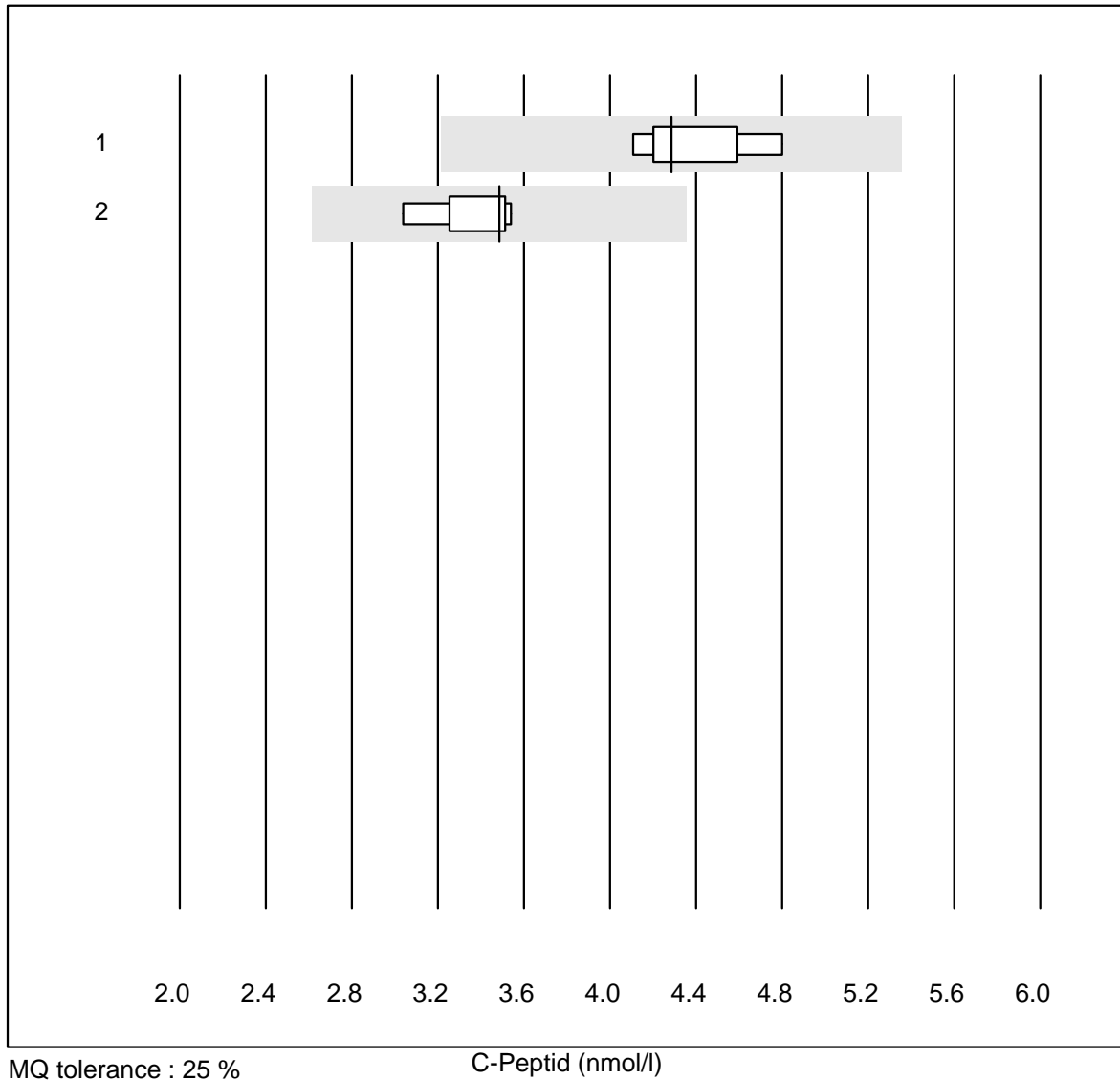


QUALAB tolerance : 18 %
 (< 1.00: +/- 0.18 mmol/l)

Triglycerides (mmol/l)

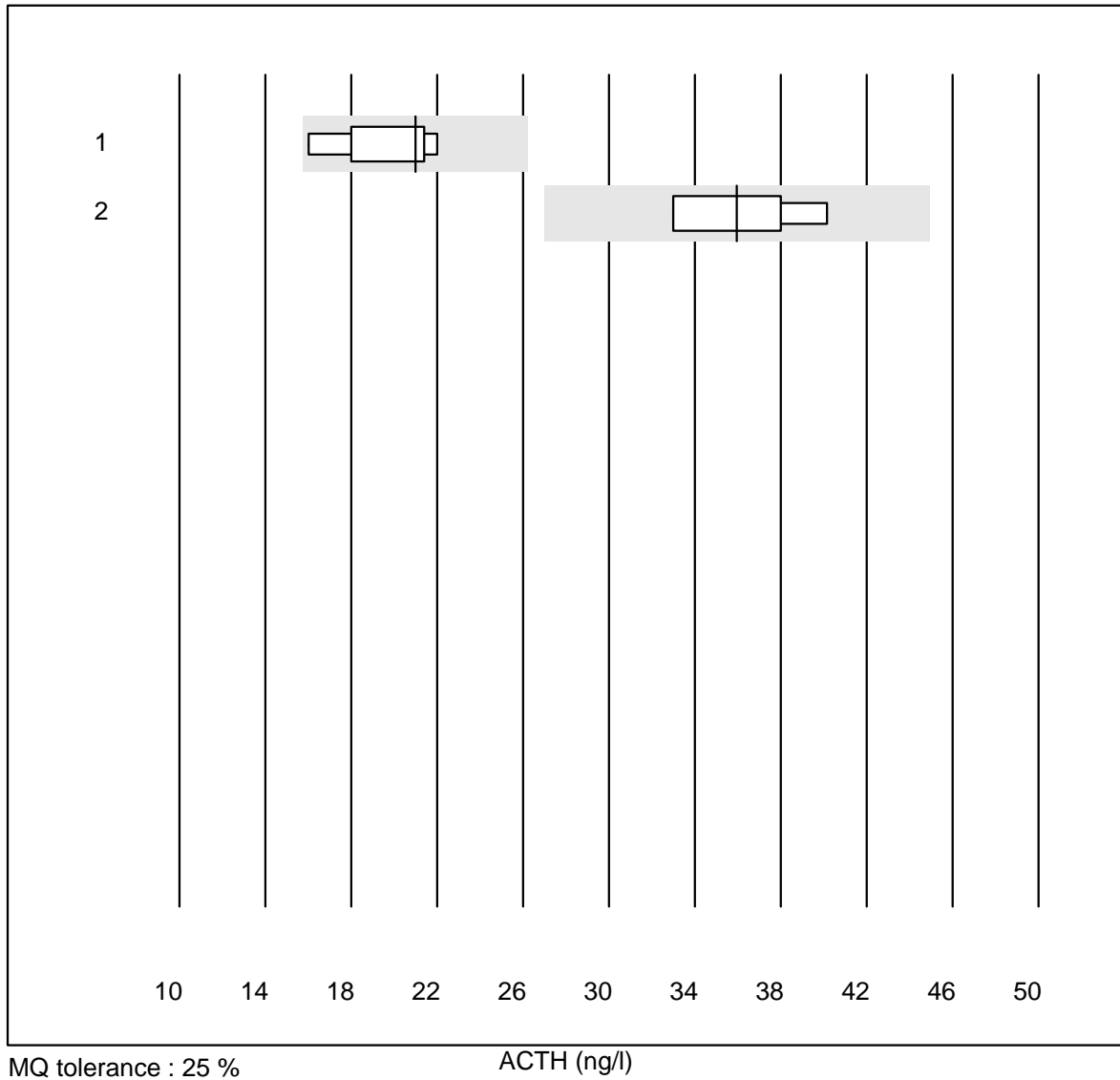
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	CardioChek	17	88.2	5.9	5.9	0.98	9.0	e*

C-Peptid



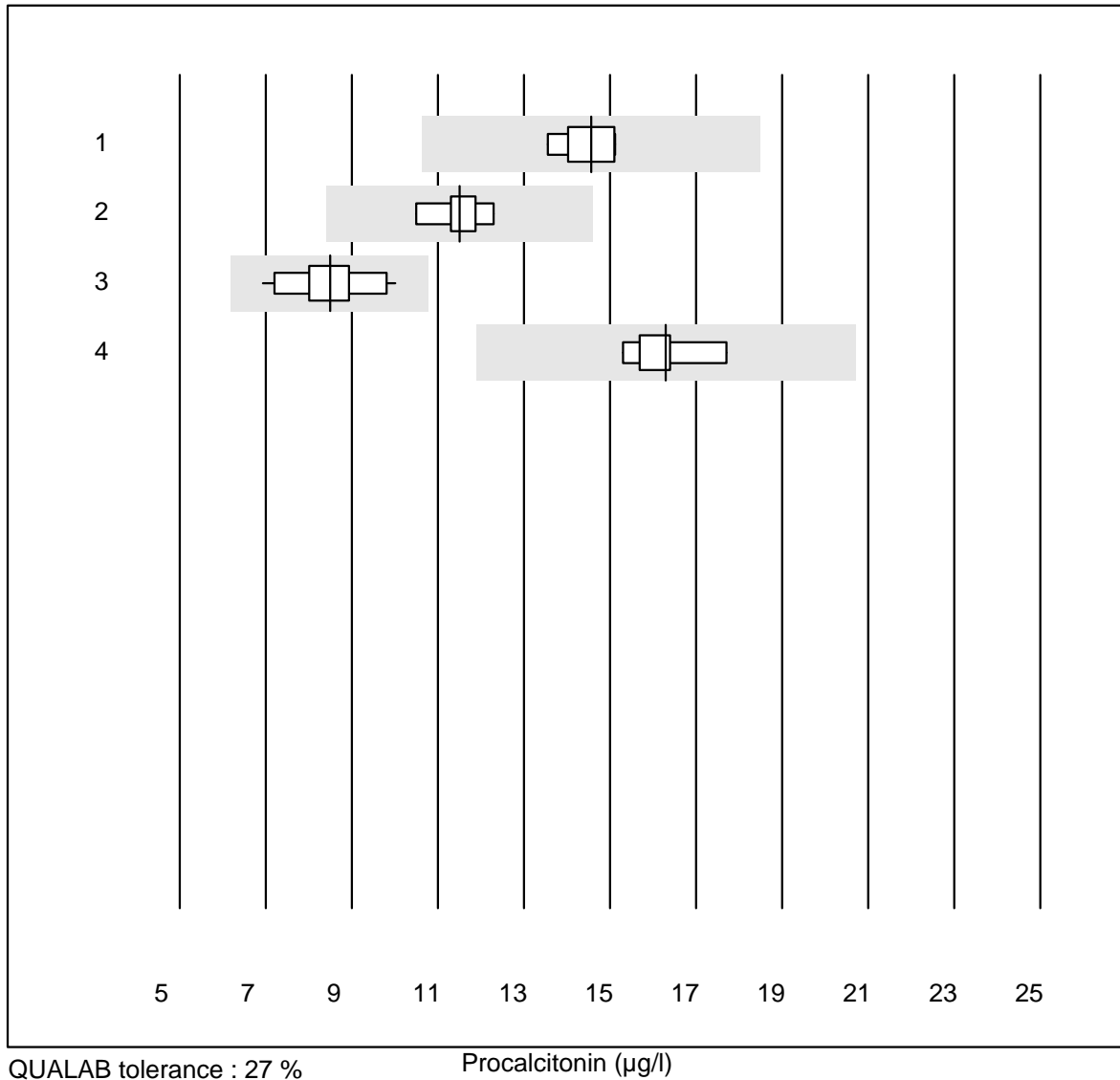
No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Liaison	6	100.0	0.0	0.0	4.28	6.1	e
2 Other methods	5	100.0	0.0	0.0	3.49	6.4	e

ACTH



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	7	100.0	0.0	0.0	21.00	10.9	e*
2	Liaison	4	100.0	0.0	0.0	35.95	9.3	e*

Procalcitonin



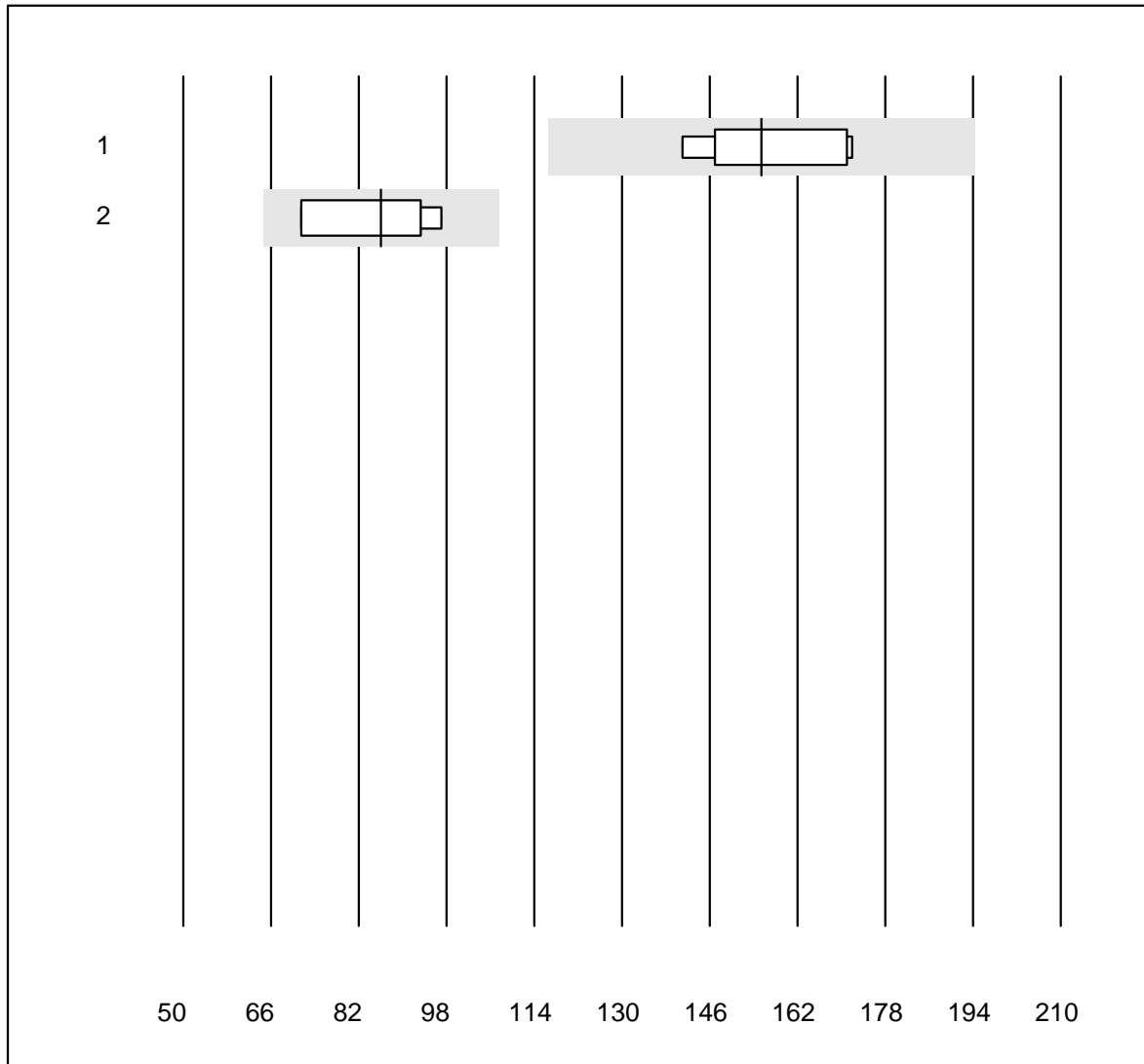
QUALAB tolerance : 27 %

Procalcitonin (µg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Architect	6	100.0	0.0	0.0	14.56	4.2	e
2	Cobas	9	100.0	0.0	0.0	11.50	4.6	e
3	VIDAS	12	100.0	0.0	0.0	8.49	10.8	e
4	Liaison	6	83.3	0.0	16.7	16.30	5.6	e

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

EPO

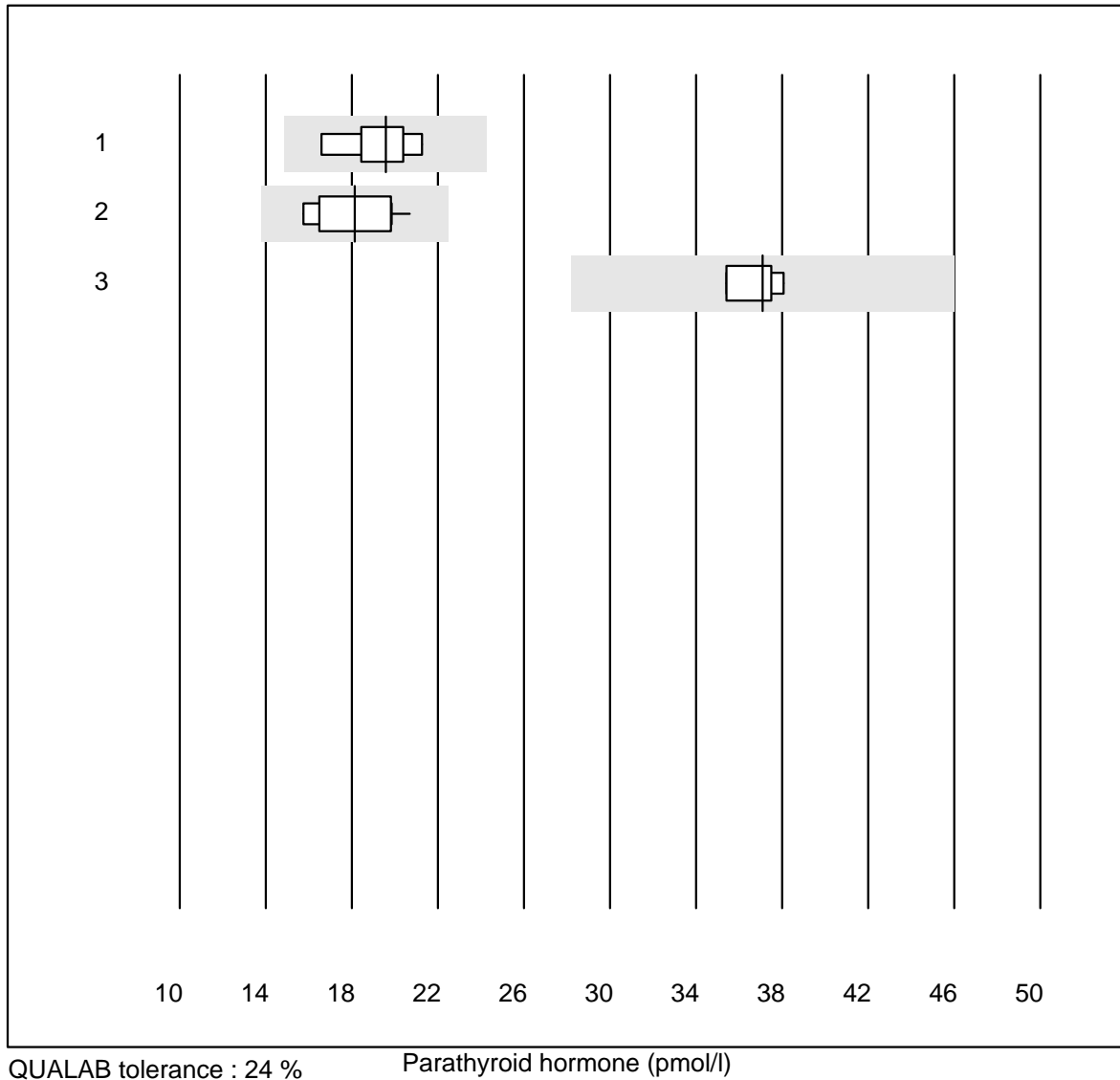


MQ tolerance : 25 %

EPO (U/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	5	100.0	0.0	0.0	155.4	8.9	e*
2	Immulite	4	100.0	0.0	0.0	86.0	14.1	e*

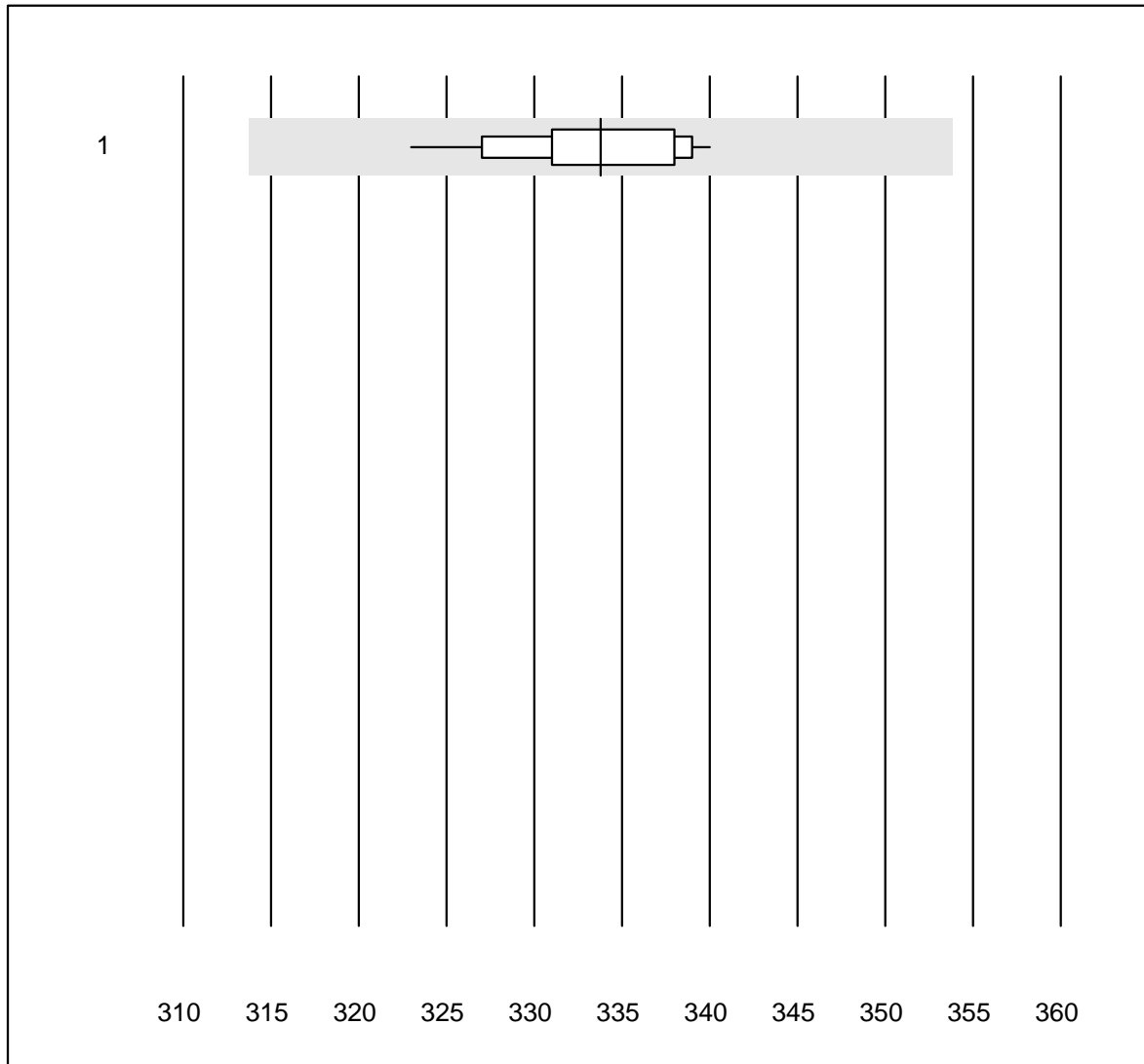
Parathyroid hormone



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas PTH STAT	9	100.0	0.0	0.0	19.6	7.6	e
2	Cobas	10	100.0	0.0	0.0	18.1	9.5	e*
3	Architect	4	100.0	0.0	0.0	37.1	3.1	e

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

Osmolality

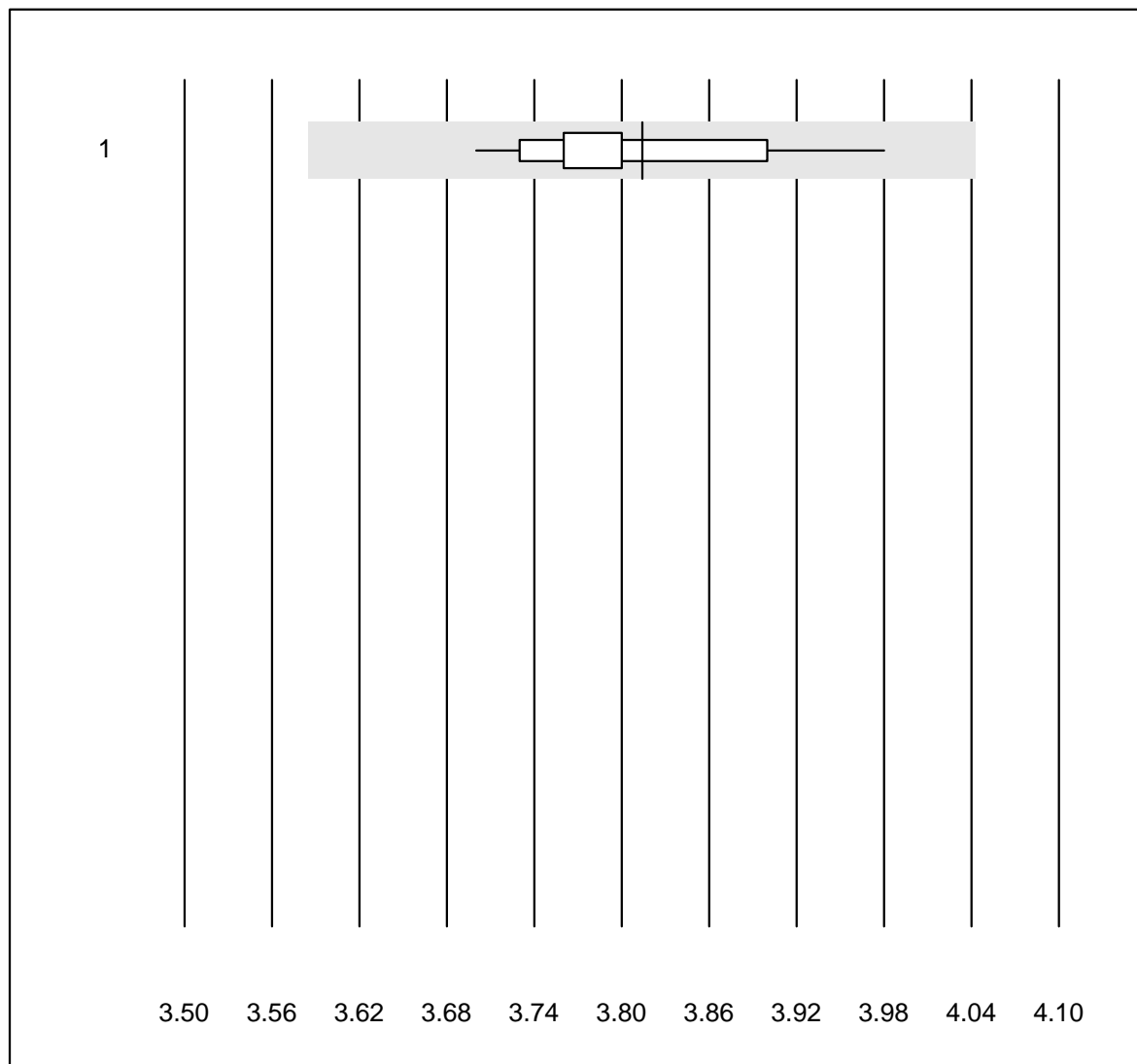


QUALAB tolerance : 6 %

Osmolality (mosm/kg)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cryoskopy	19	94.7	0.0	5.3	334	1.5	e

Potassium-K22

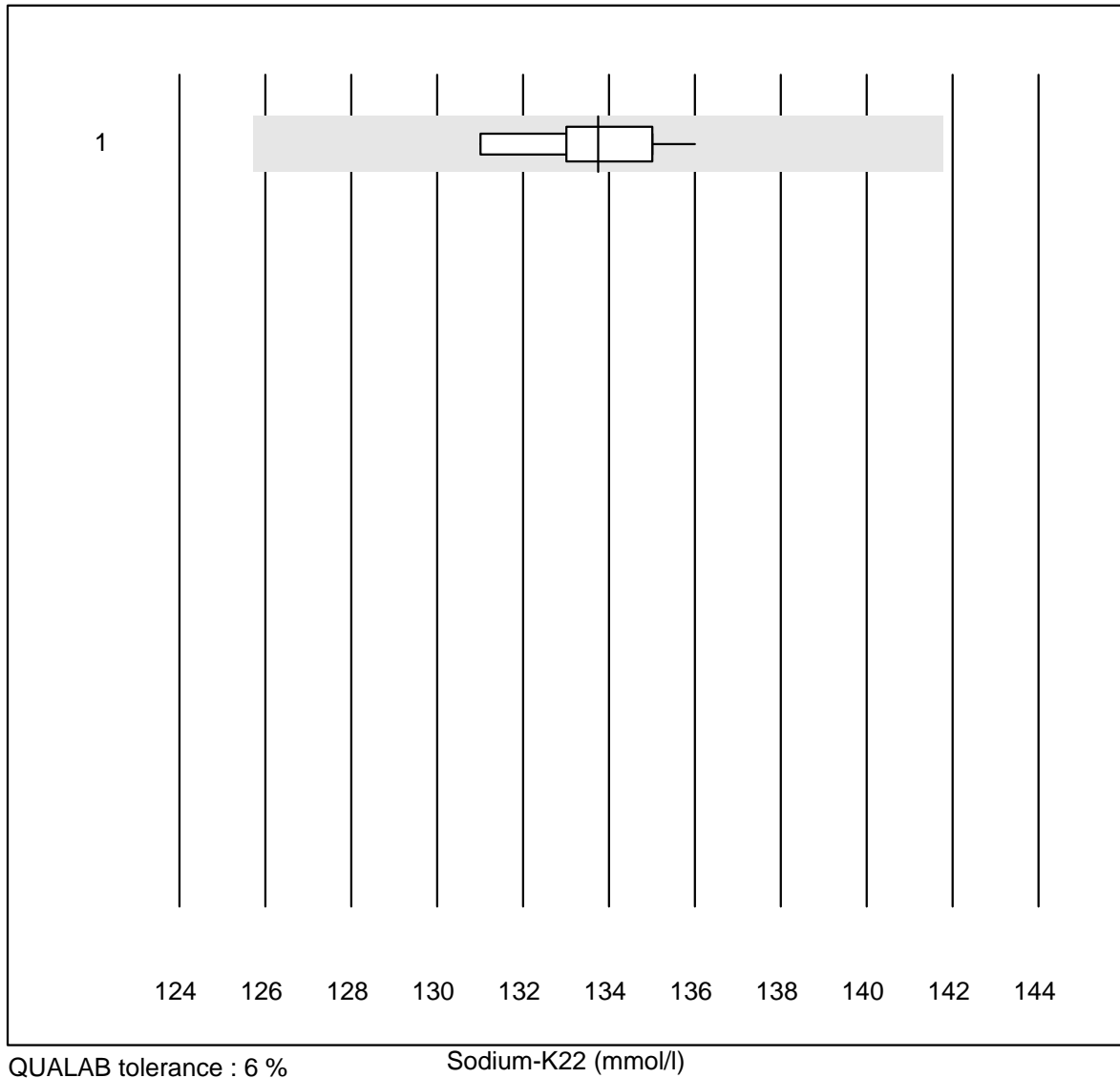


QUALAB tolerance : 6 %

Potassium-K22 (mmol/l)

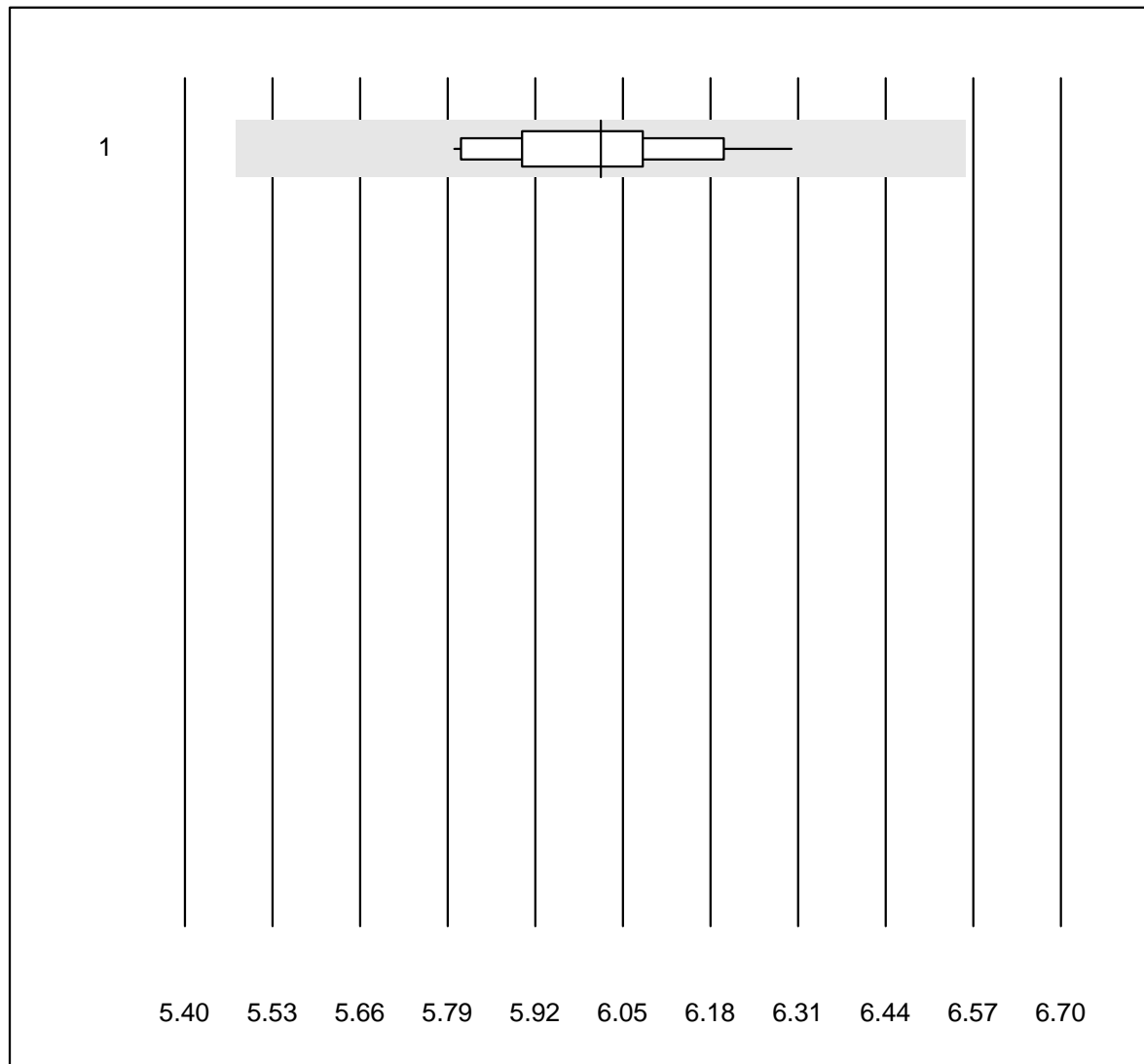
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ISE	12	100.0	0.0	0.0	3.8	2.0	e

Sodium-K22



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	ISE	12	100.0	0.0	0.0	134	1.2	e

Glucose-K22

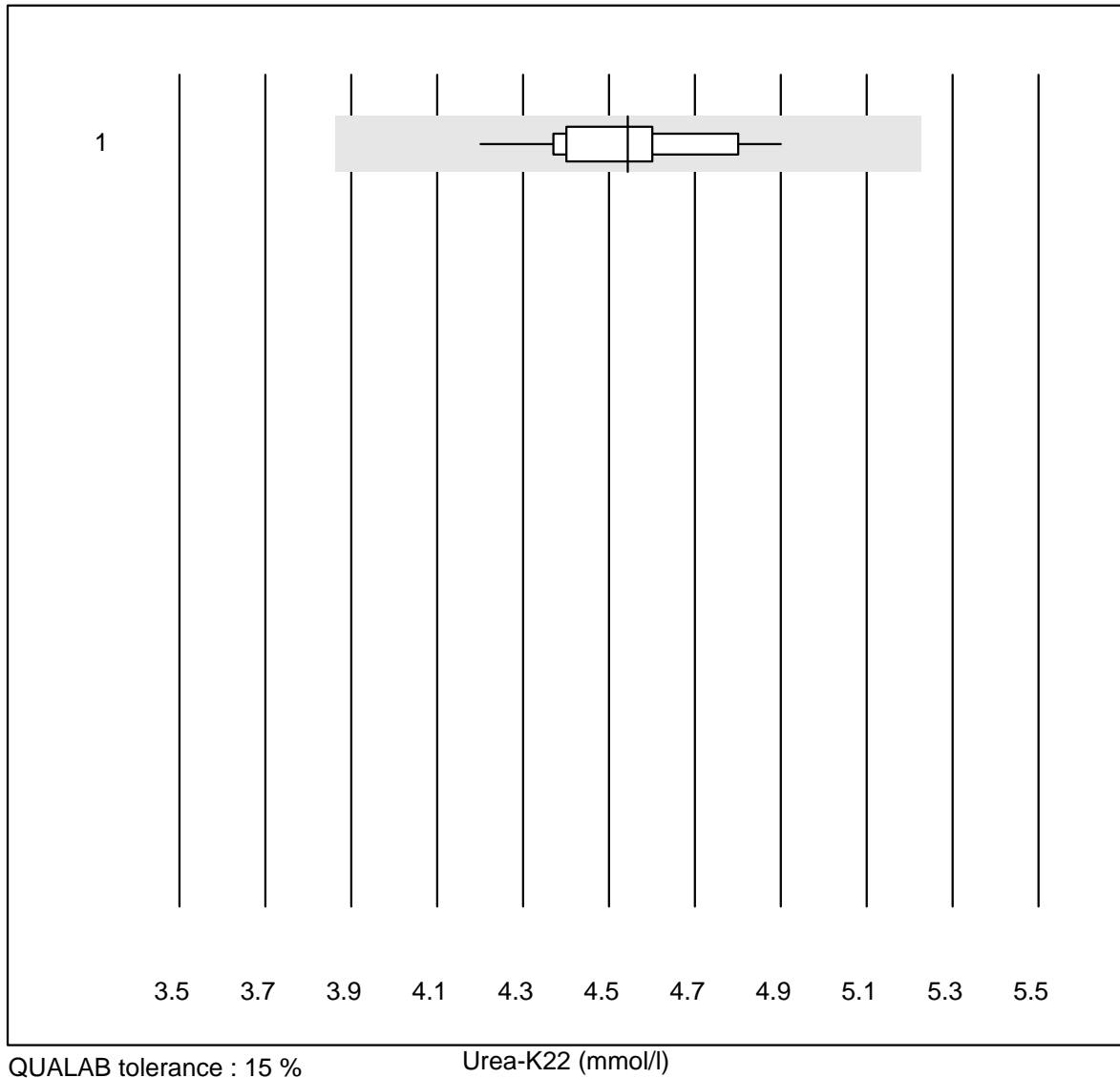


QUALAB tolerance : 9 %

Glucose-K22 (mmol/l)

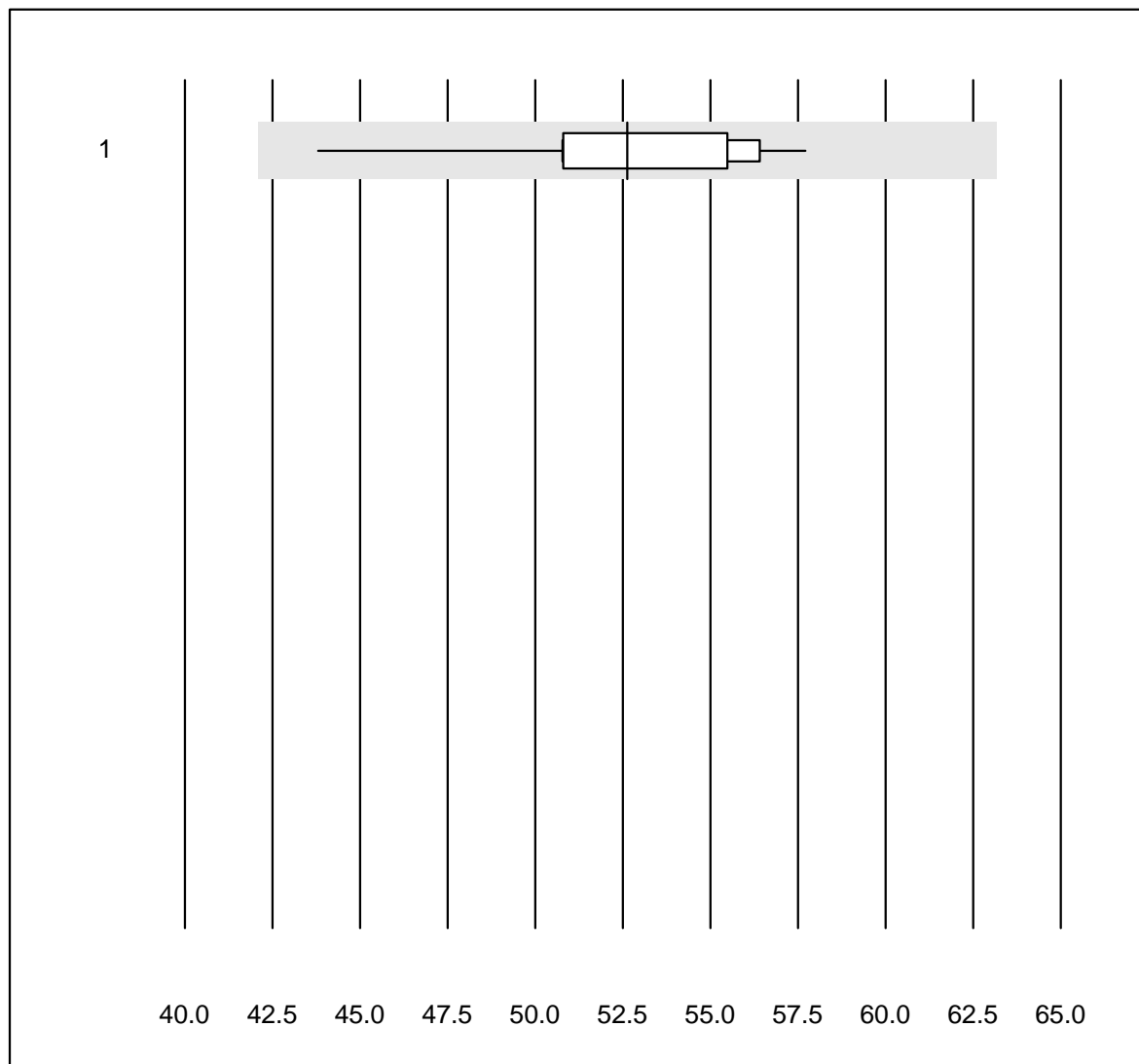
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	12	100.0	0.0	0.0	6.0	2.4	e

Urea-K22



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	12	100.0	0.0	0.0	4.5	4.5	e

Osmotic Gap



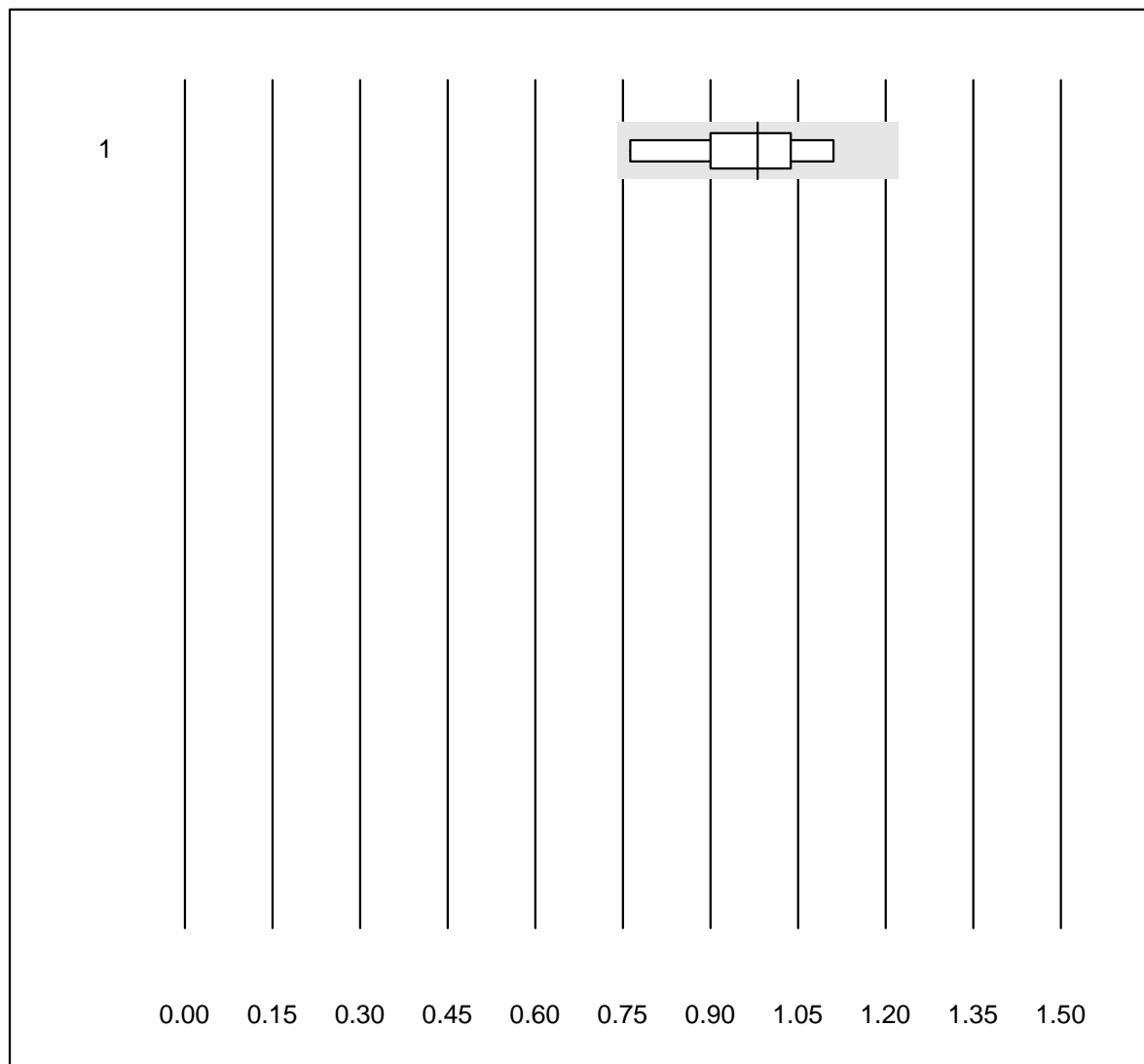
MQ tolerance : 20 %

Osmotic Gap (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Formel 1 (2Na+K+Glu+	11	100.0	0.0	0.0	52.6	7.4	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Digoxin



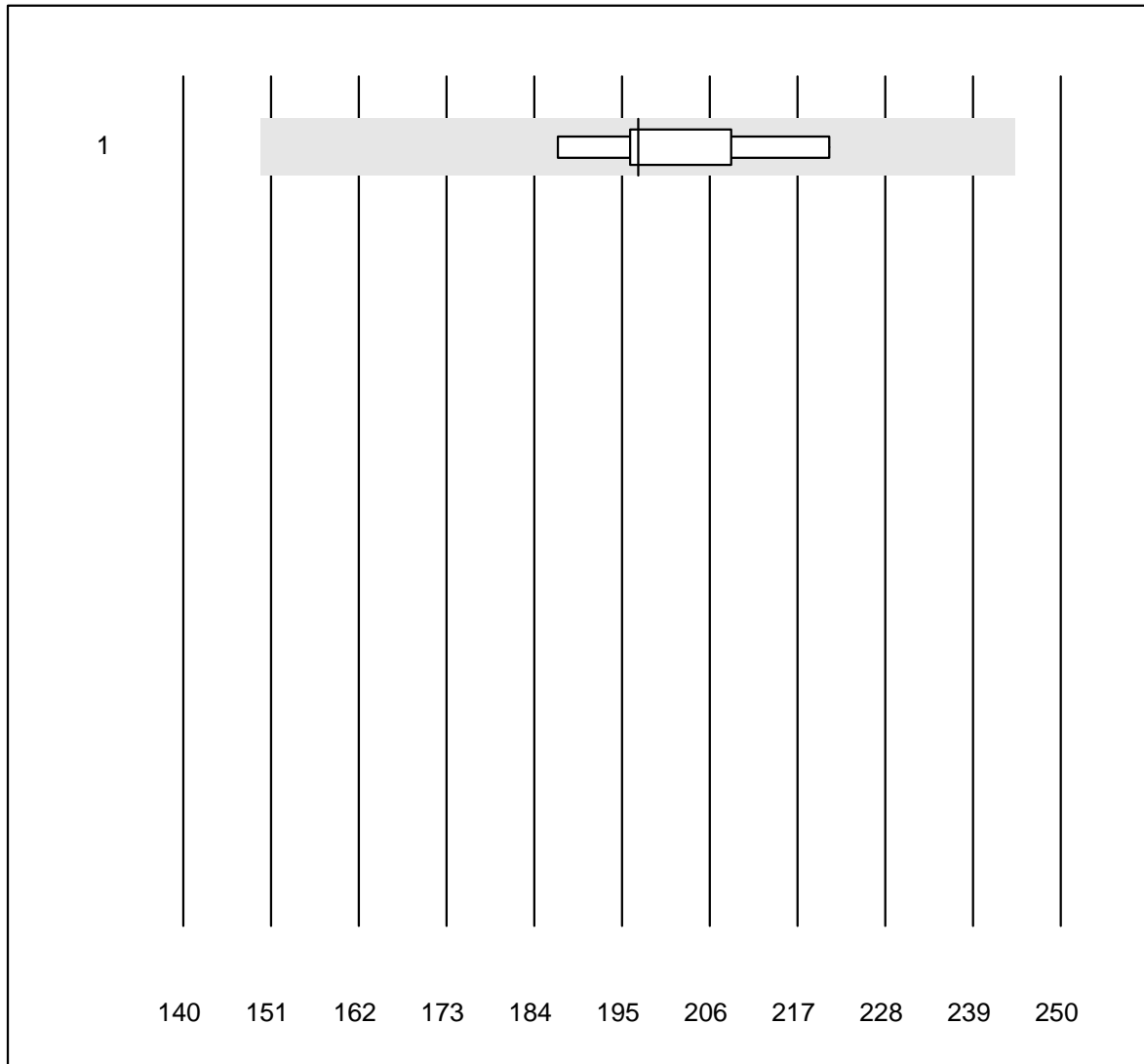
QUALAB tolerance : 24 %
(< 1.00: +/- 0.24 nmol/l)

Digoxin (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Other methods	7	100.0	0.0	0.0	0.98	11.8	e*

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

Valproat

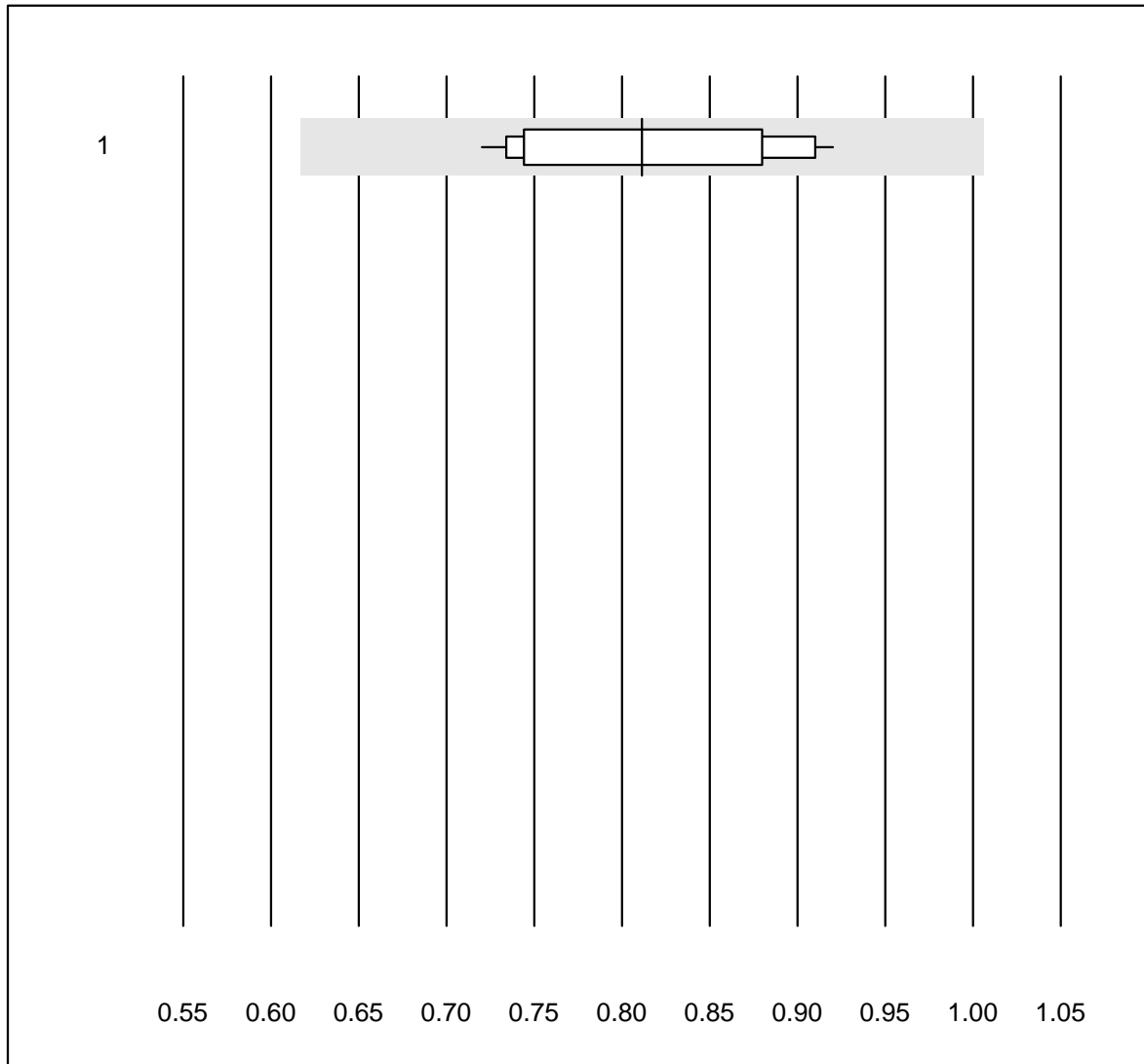


MQ tolerance : 24 %

Valproat (µmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	7	100.0	0.0	0.0	197.0	5.5	e

Cystatin C

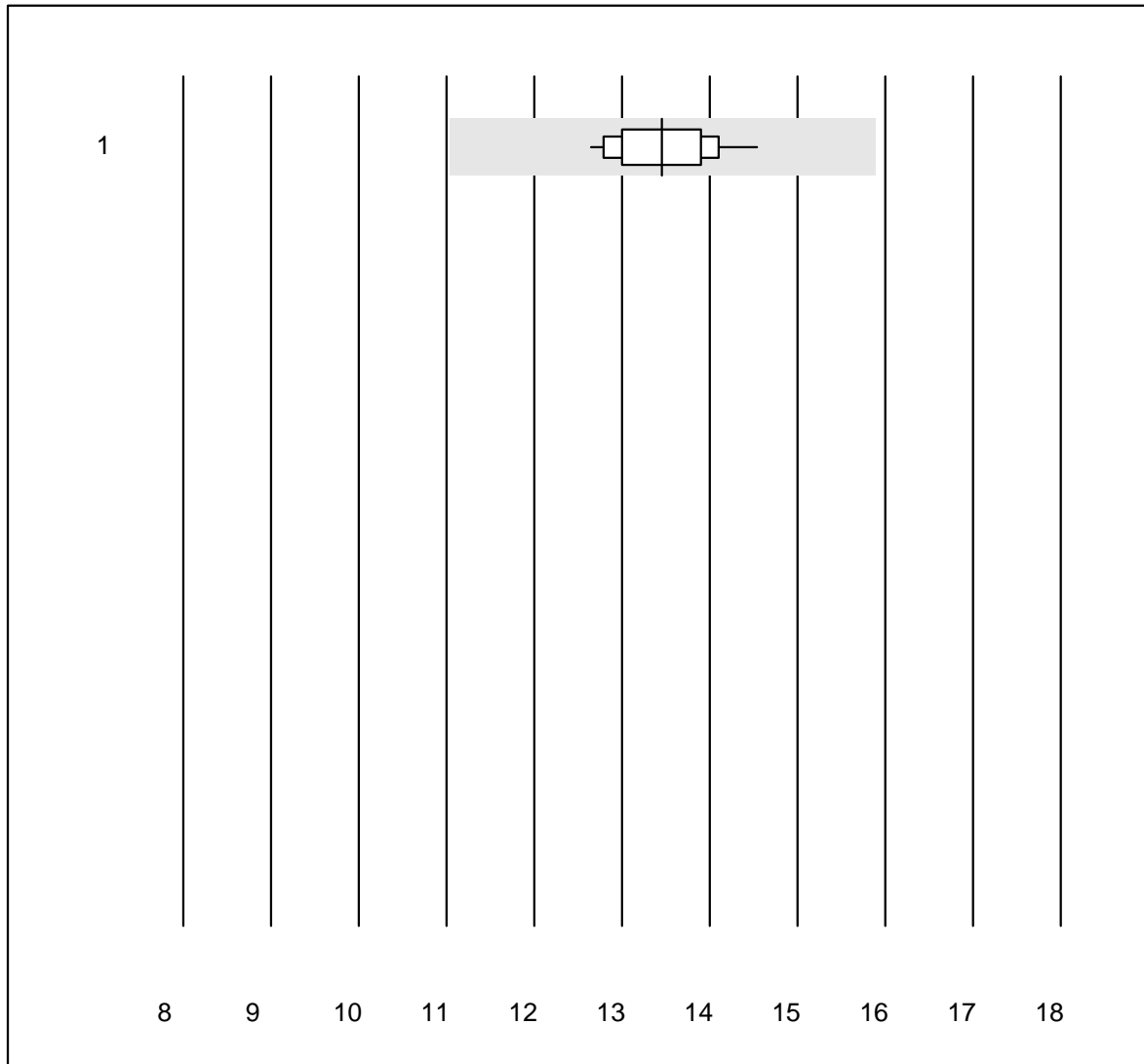


MQ tolerance : 24 %

Cystatin C (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	14	100.0	0.0	0.0	0.81	8.9	e

Ethanol



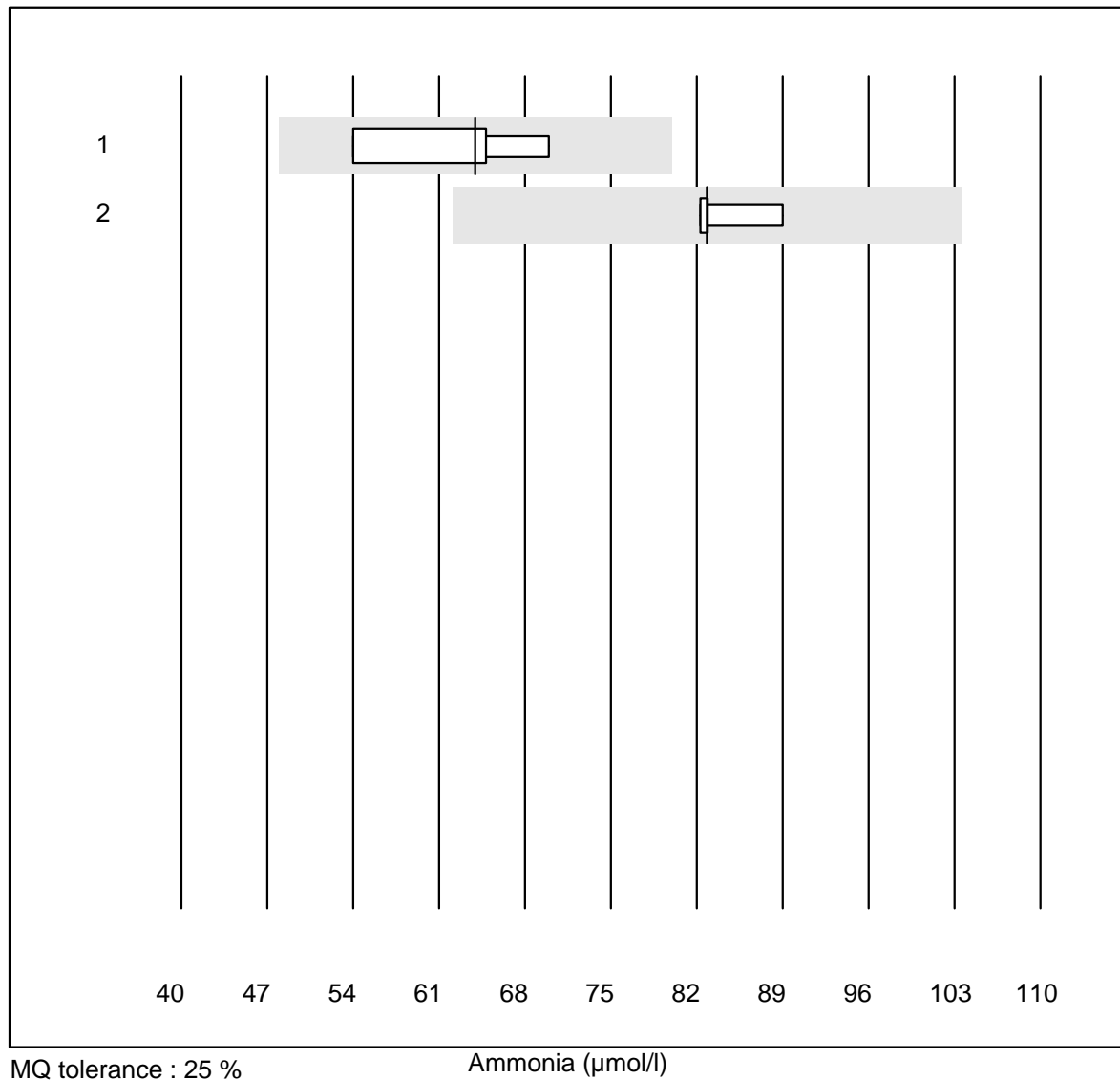
QUALAB tolerance : 18 %

Ethanol (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	26	100.0	0.0	0.0	13.5	4.2	e

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

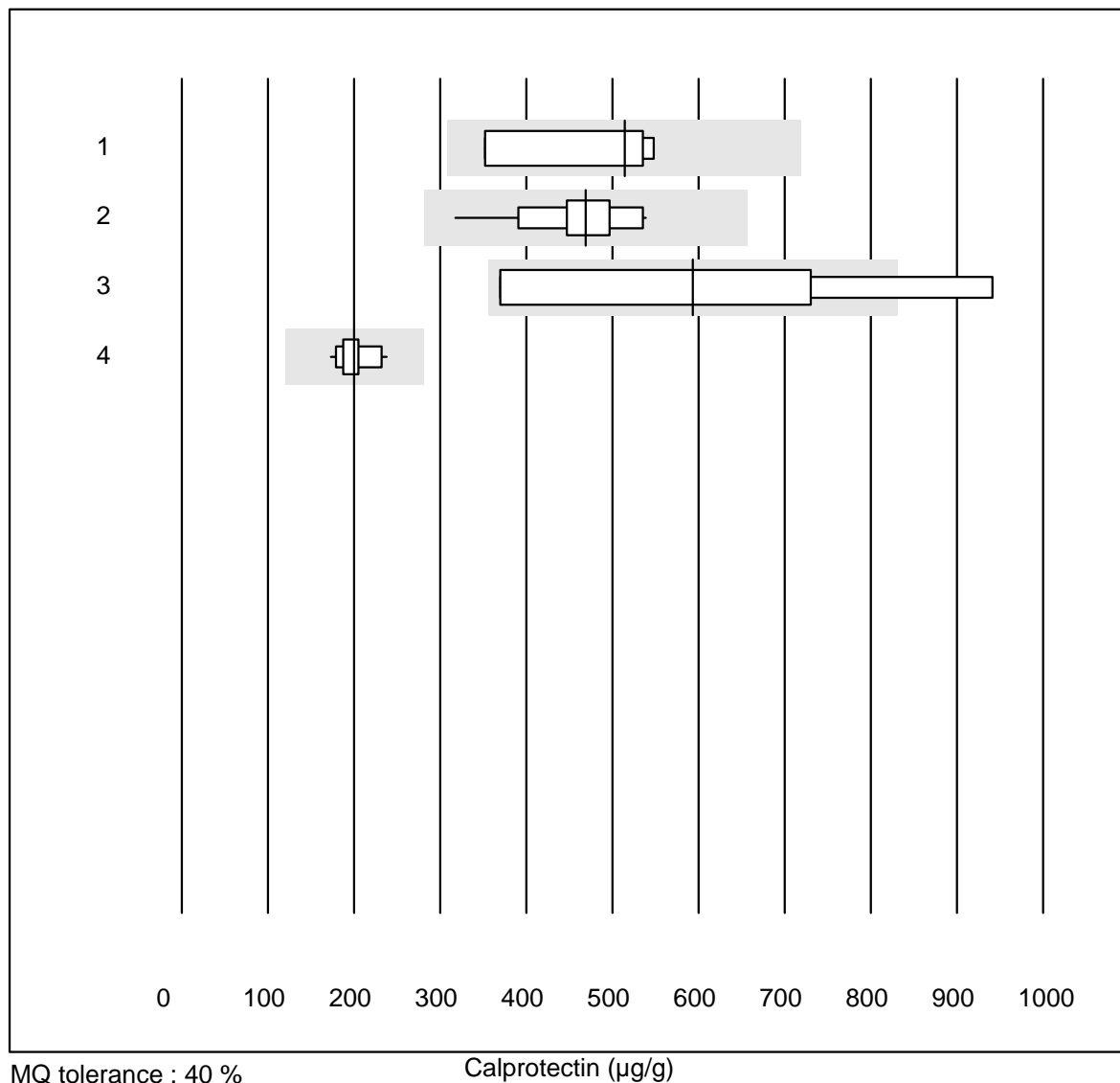
Ammonia



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Architect	4	100.0	0.0	0.0	63.9	10.6	e*
2	all Participants	4	100.0	0.0	0.0	82.8	3.8	e

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

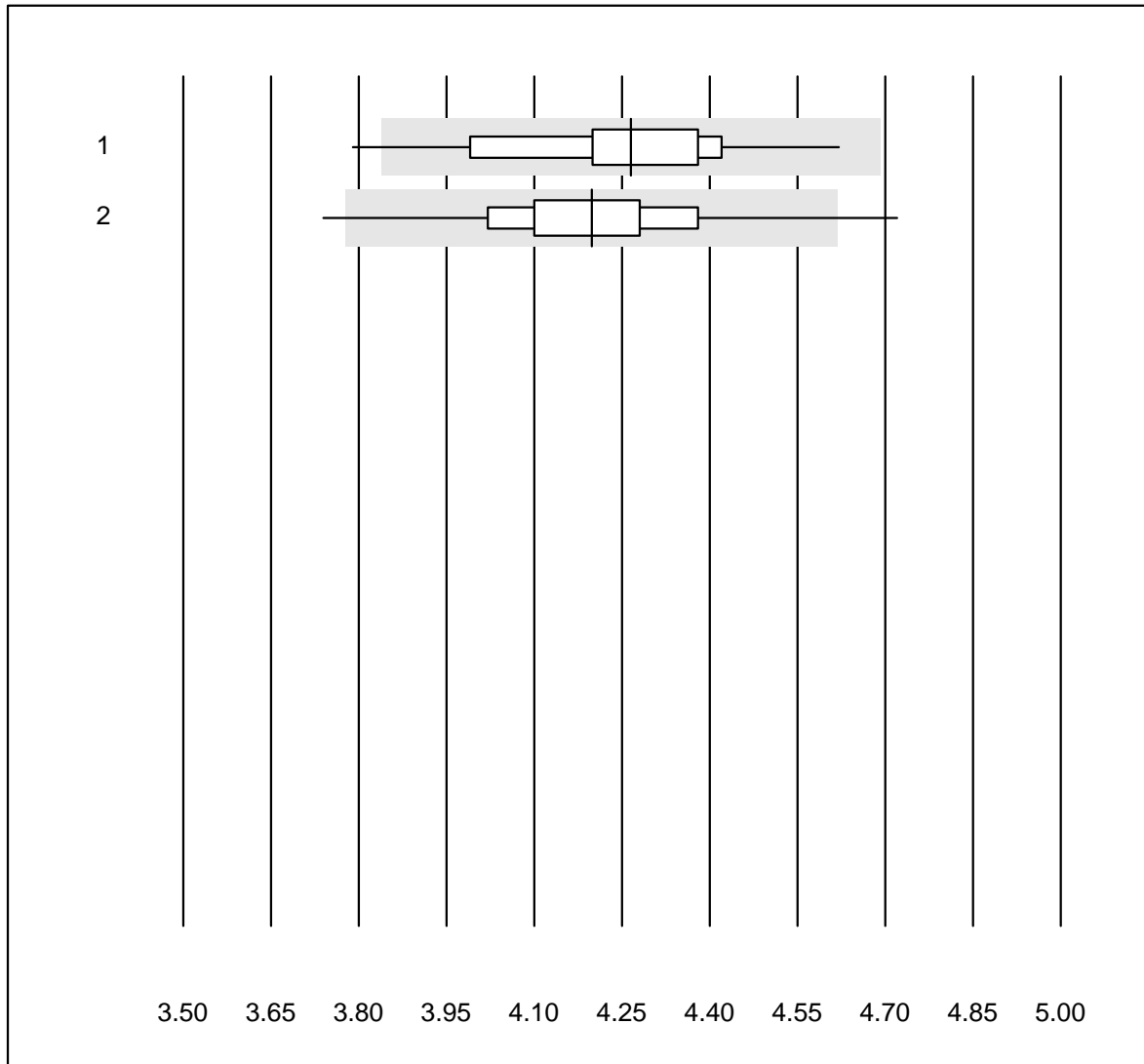
Calprotectin



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Bühlmann ELISA	4	100.0	0.0	0.0	514	18.6	e*
2	Bühlmann fCALturbo	15	80.0	0.0	20.0	469	13.3	e
3	Bühlmann Quantum Blu	4	75.0	25.0	0.0	594	41.8	e*
4	Liaison	21	95.2	0.0	4.8	200	8.7	e

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

Cholesterol total Af/b101

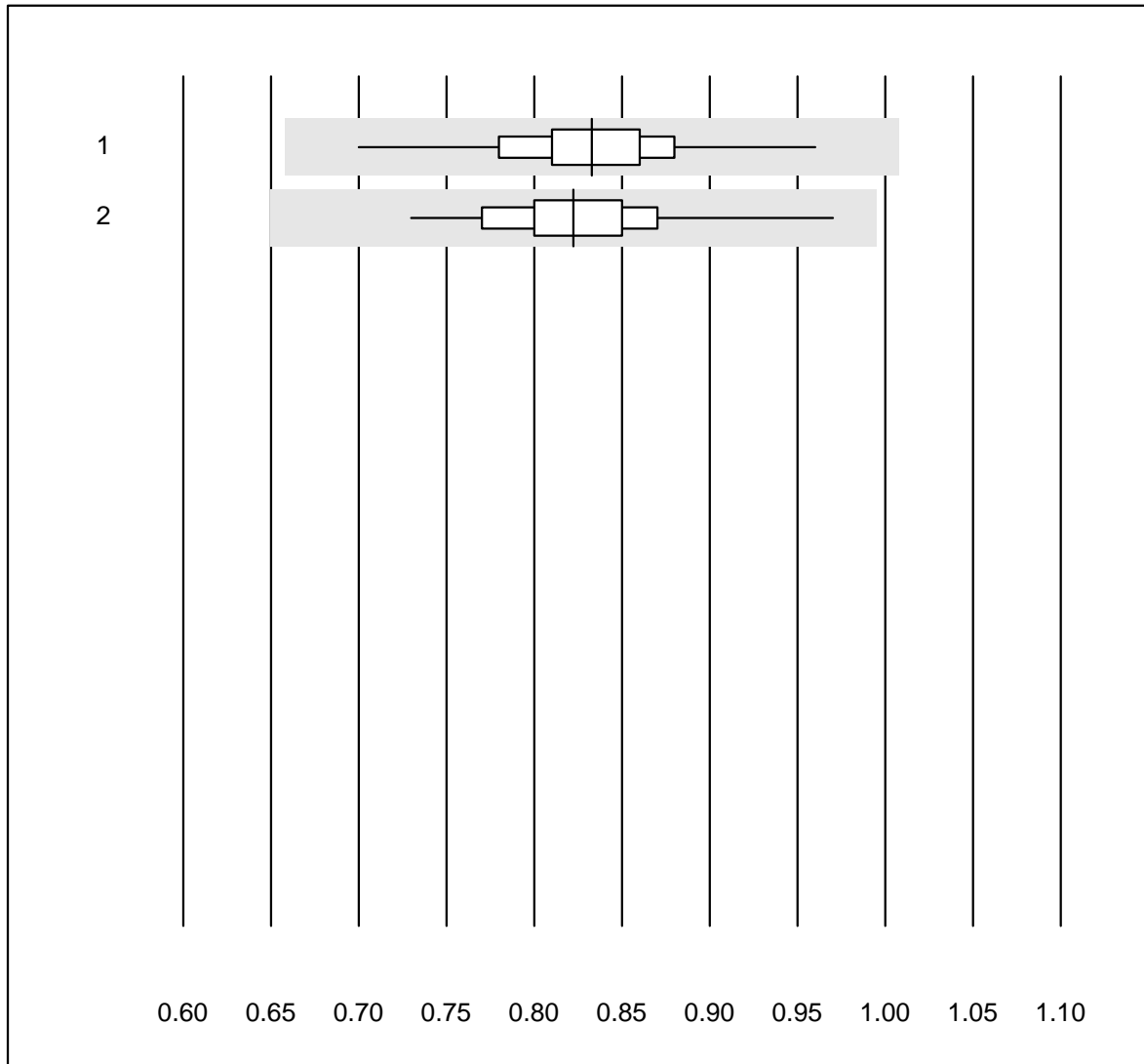


QUALAB tolerance : 10 %

Cholesterol total Af/b101 (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b101	260	97.6	1.2	1.2	4.26	3.8	e
2	Afinion	443	97.5	0.9	1.6	4.20	3.4	e

Cholesterol HDL Af/b101

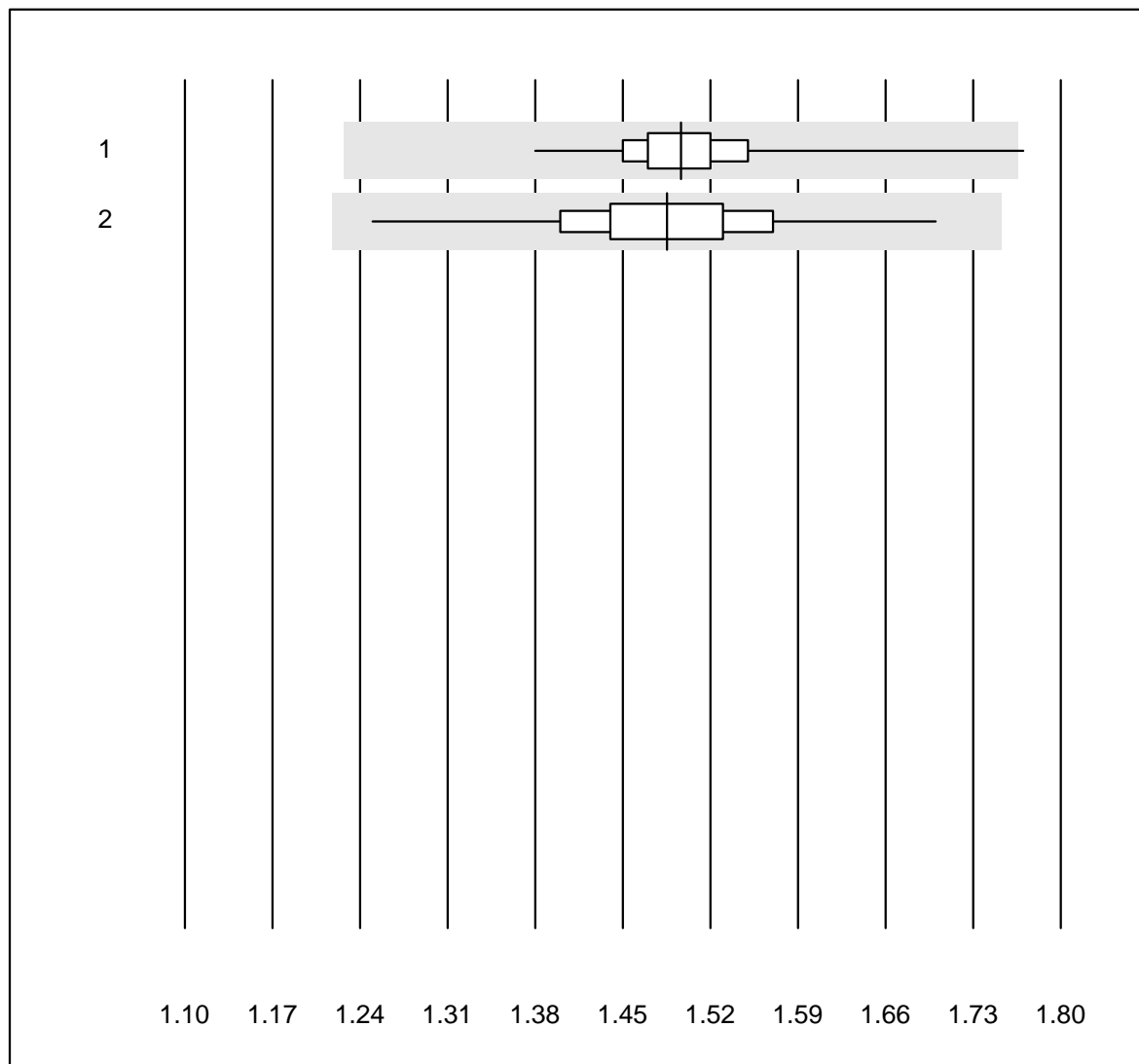


QUALAB tolerance : 21 %

Cholesterol HDL Af/b101 (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b101	257	91.4	0.0	8.6	0.83	4.7	e
2	Afinion	440	88.4	0.0	11.6	0.82	4.7	e

Tryglicerides Af/b101

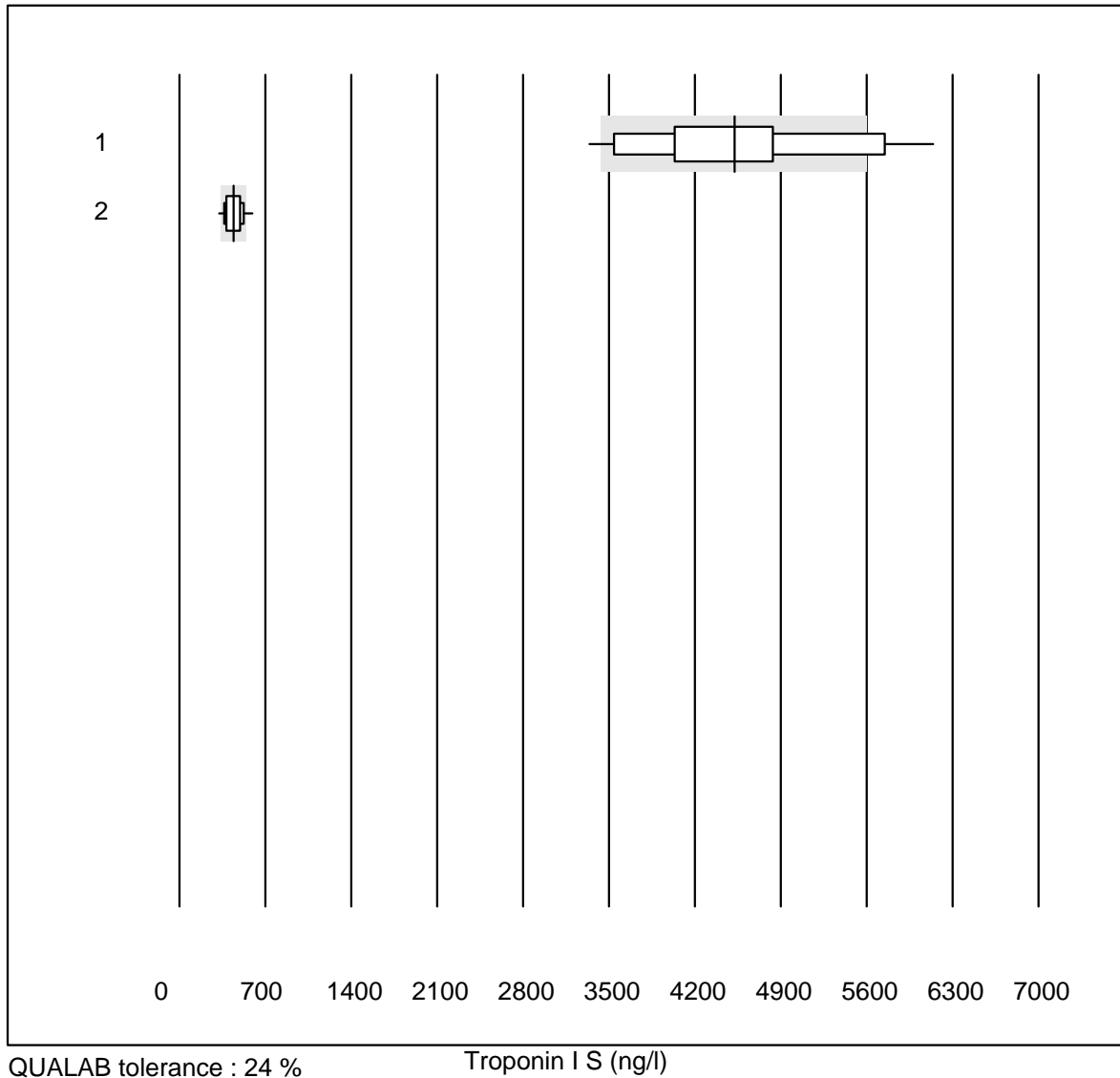


QUALAB tolerance : 18 %

Tryglicerides Af/b101 (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas b101	257	98.0	0.4	1.6	1.50	3.1	e
2	Afinion	444	99.5	0.0	0.5	1.49	4.5	e

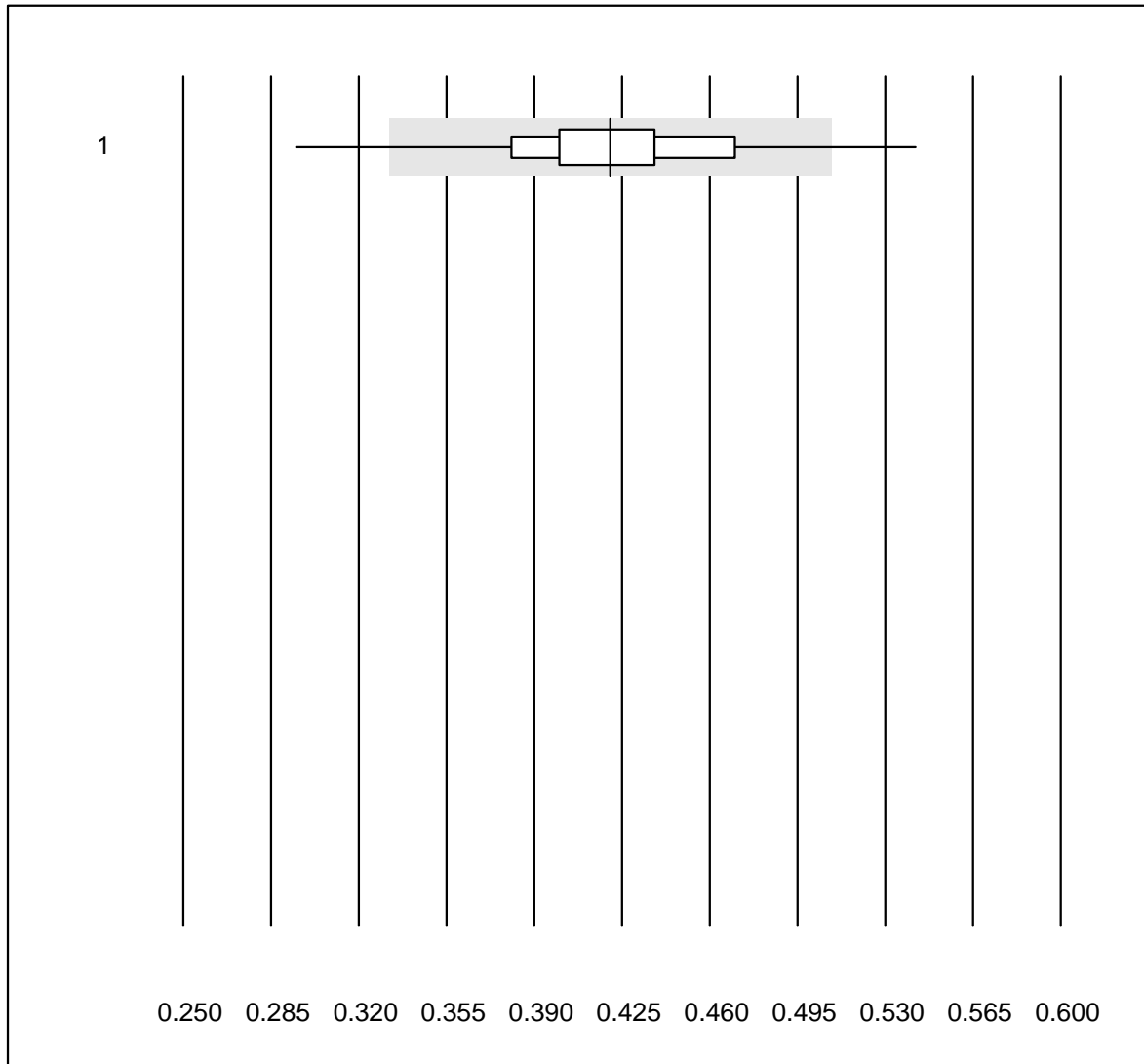
Troponin I S



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	AFIAS (Gen. 1)	24	70.8	16.7	12.5	4521.00	17.5	e*
2	AFIAS	172	91.3	5.8	2.9	438.55	14.4	e

One result was submitted but not published because the method group was too small. (<4 results per group)

D-dimer qn S



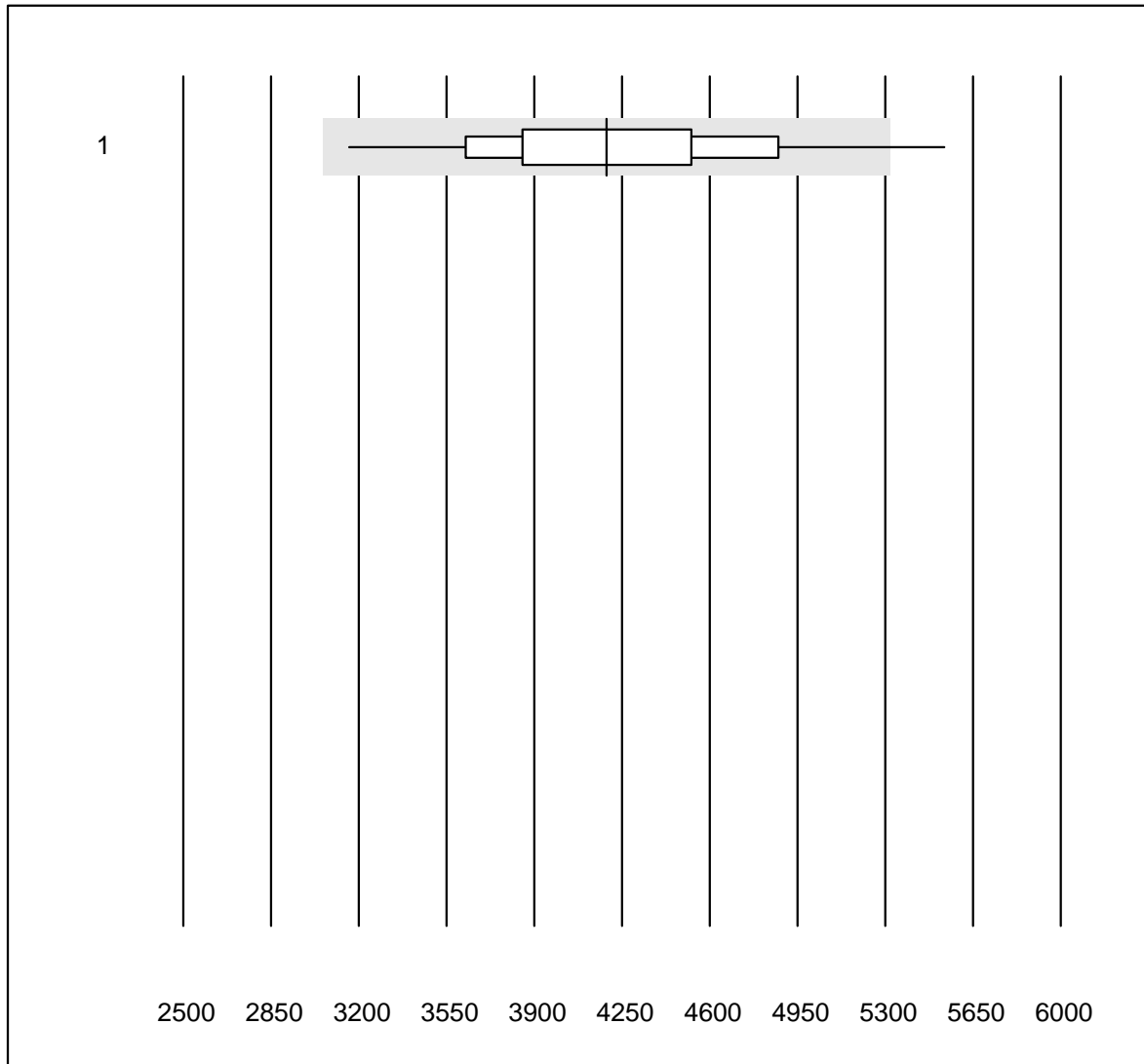
QUALAB tolerance : 21 %

D-dimer qn S (mg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 AFIAS	200	88.5	3.0	8.5	0.42	8.9	e

One result was submitted but not published because the method group was too small. (<4 results per group)

NT-proBNP S

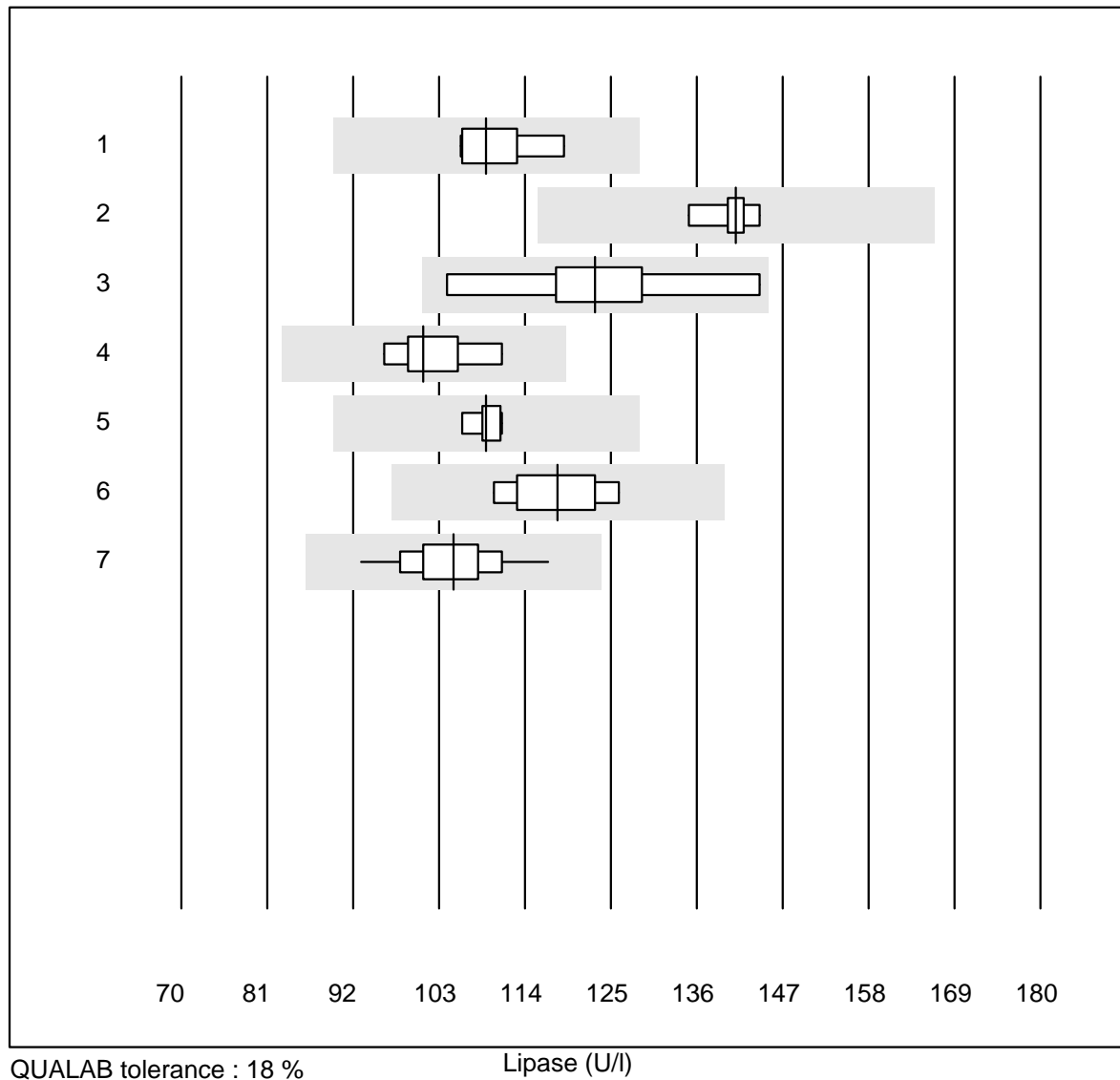


QUALAB tolerance : 27 %

NT-proBNP S (ng/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV% Type
1 AFIAS	151	98.0	0.7	1.3	4187.0	11.0 e

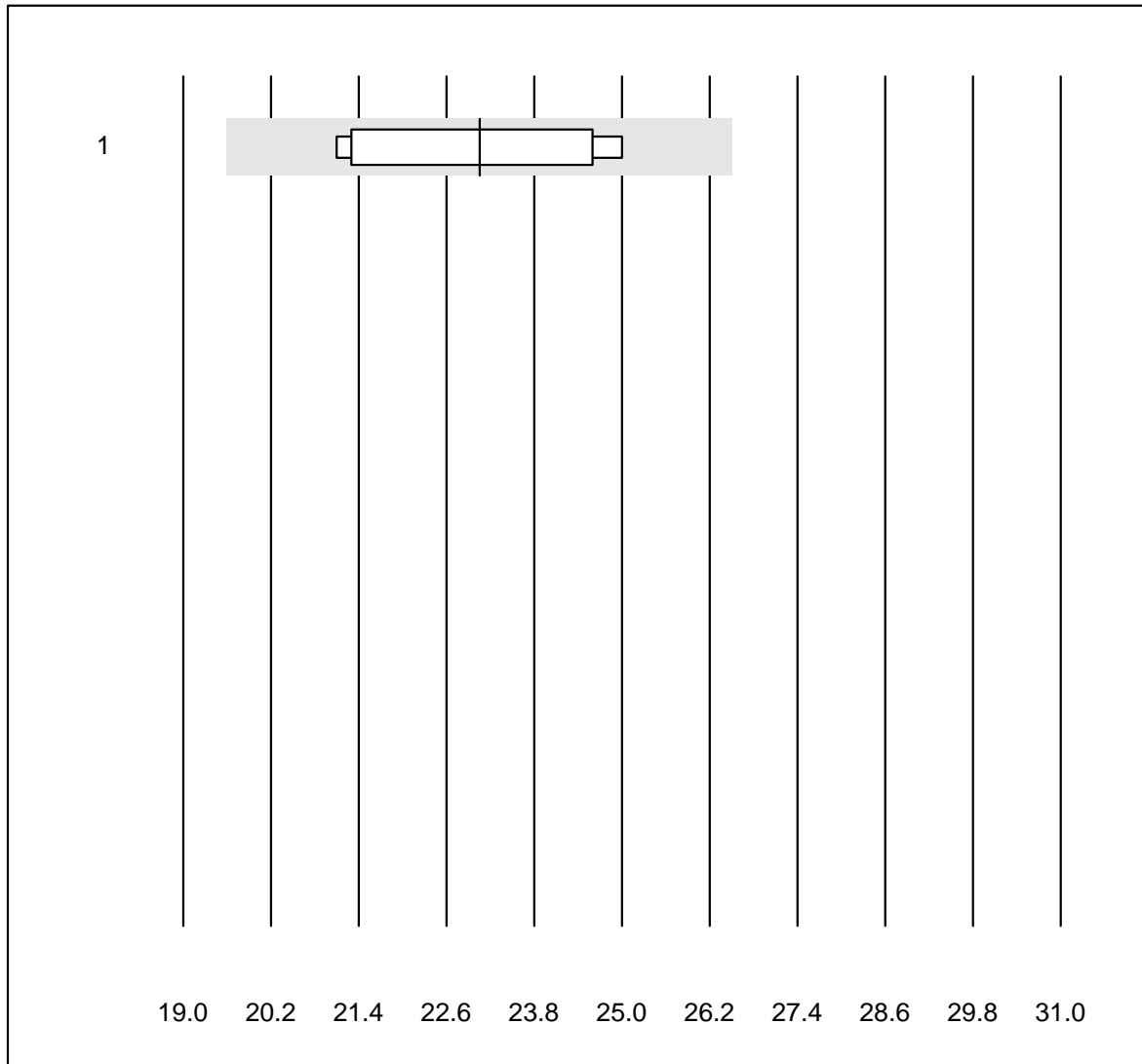
Lipase



No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Roche	6	100.0	0.0	0.0	109.0	4.6	e
2	Alinity	6	100.0	0.0	0.0	141.0	2.2	e
3	Cobas Integra 800/40	5	100.0	0.0	0.0	123.0	11.9	e*
4	Architect	7	100.0	0.0	0.0	101.0	4.9	e
5	Beckman	5	100.0	0.0	0.0	109.0	1.9	e
6	Cobas	9	100.0	0.0	0.0	118.2	4.8	e
7	Fuji Dri-Chem	175	98.3	0.0	1.7	104.9	4.9	e

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

Bicarbonat



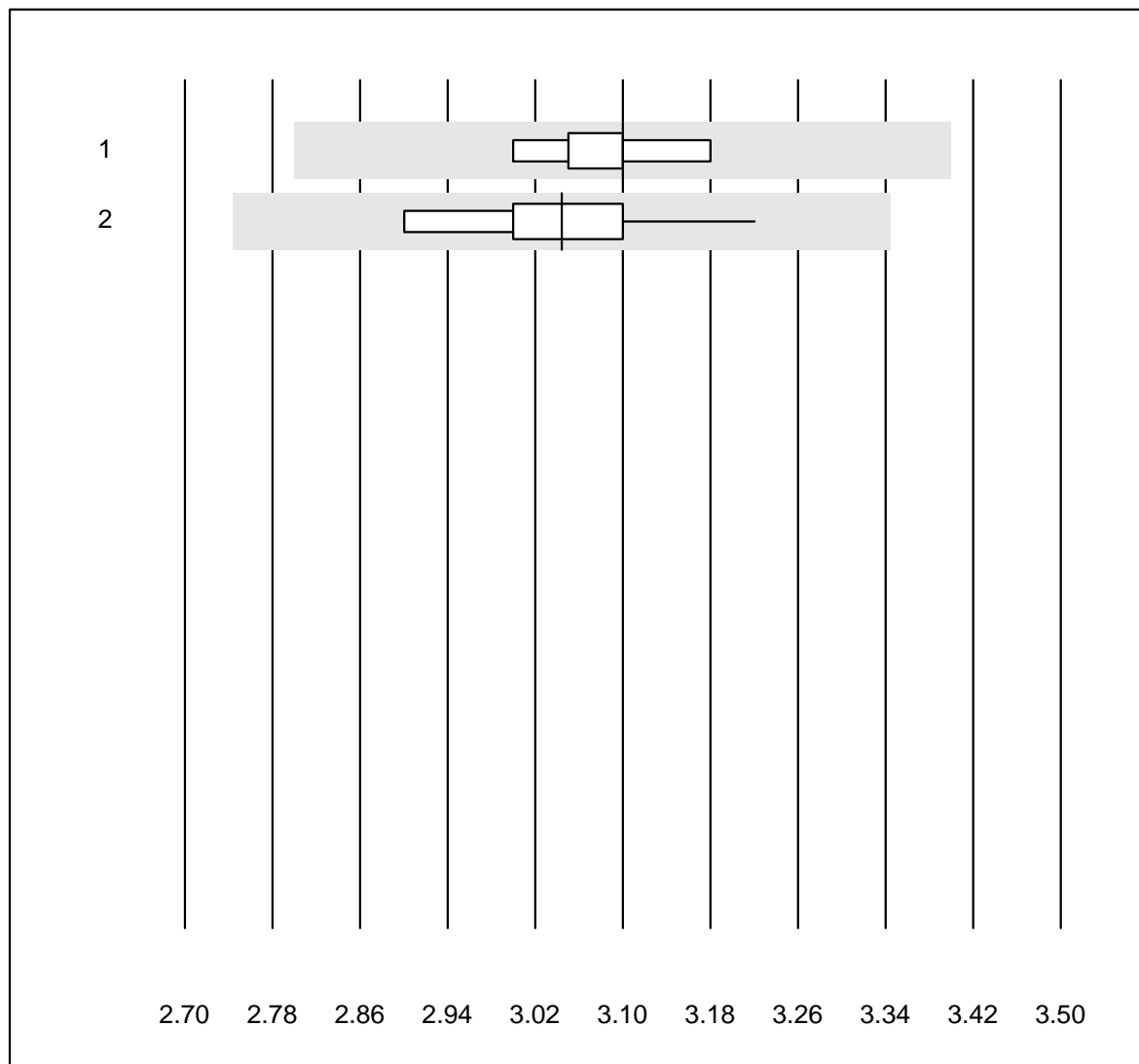
MQ tolerance : 15 %

Bicarbonat (mmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Other methods	5	100.0	0.0	0.0	23.1	8.6	a

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

Glucose CSF

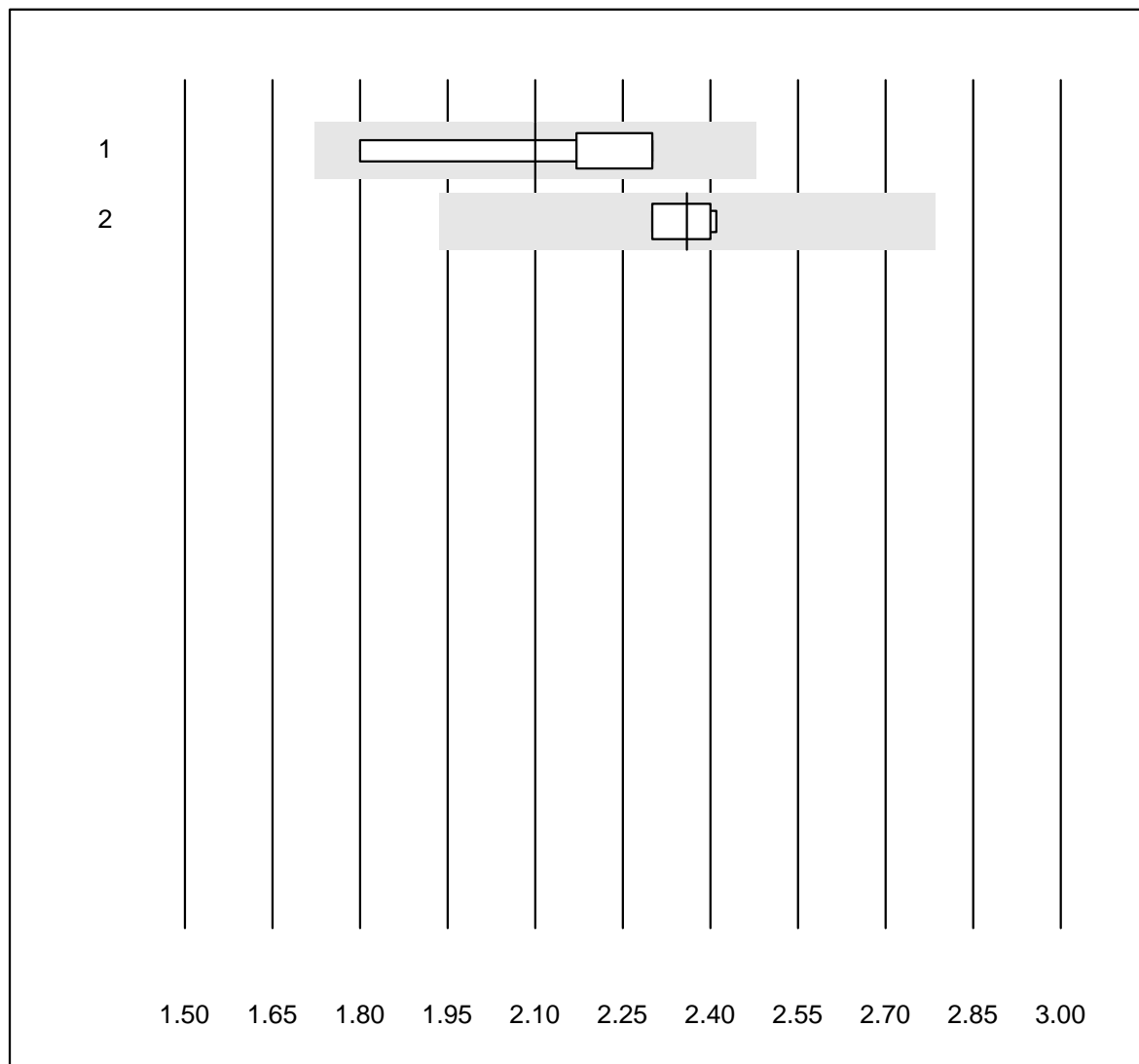


QUALAB tolerance : 9 %
(< 3.30: +/- 0.30 mmol/l)

Glucose CSF (mmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cobas	6	100.0	0.0	0.0	3.10	1.9	e
2 Other methods	11	100.0	0.0	0.0	3.04	3.1	e

Lactate CSF

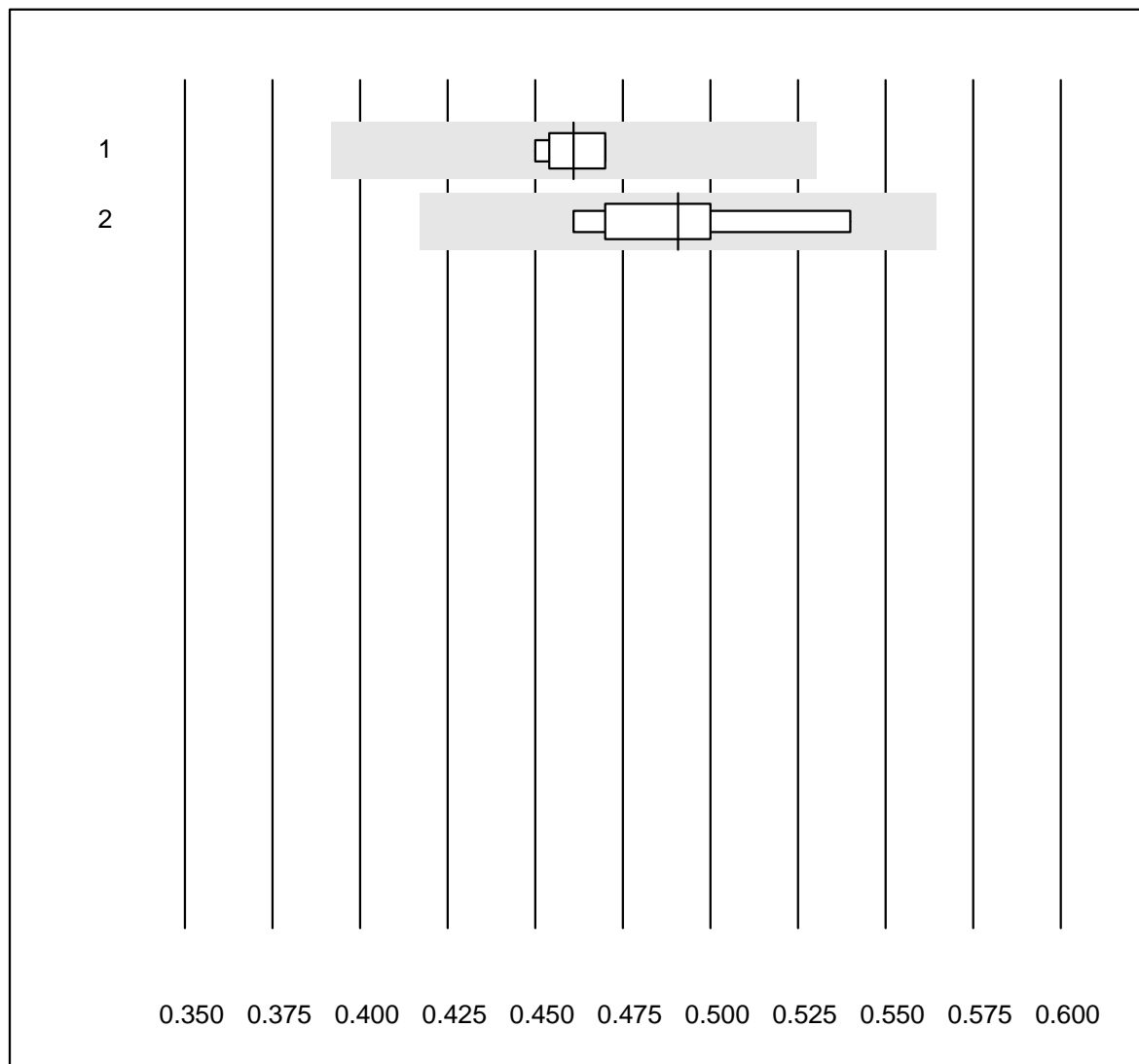


QUALAB tolerance : 18 %

Lactate CSF (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	7	100.0	0.0	0.0	2.10	8.1	a
2	Other methods	7	100.0	0.0	0.0	2.36	1.8	e

Protein CSF



QUALAB tolerance : 15 %

Protein CSF (g/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	6	100.0	0.0	0.0	0.46	1.8	e
2	Other methods	9	100.0	0.0	0.0	0.49	5.4	e

One result was submitted but not published because the method group was too small. (<4 results per group)

Albumine CSF



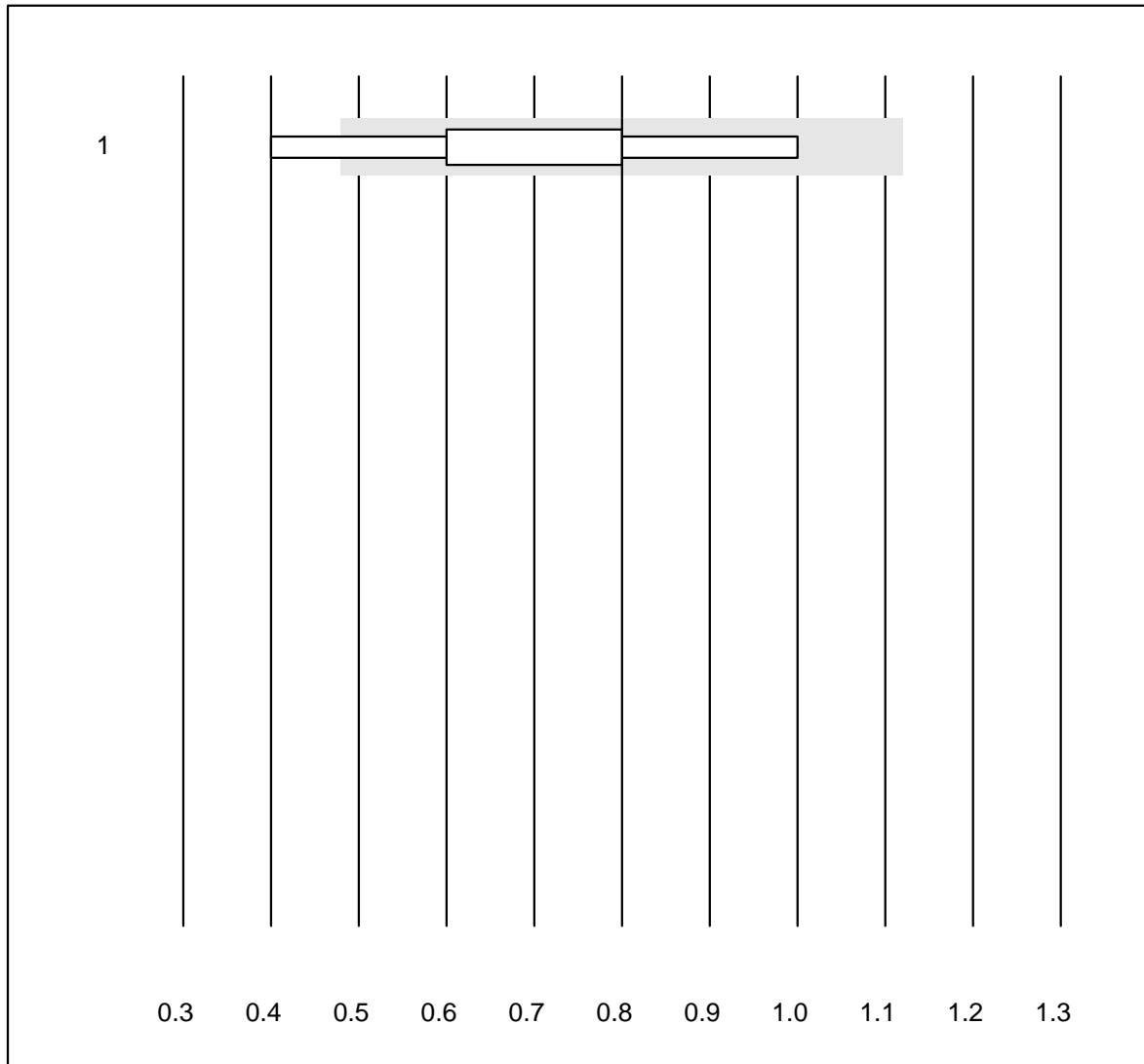
MQ tolerance : 20 %

Albumine CSF (mg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	4	100.0	0.0	0.0	252.50	2.9	e

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

CDT



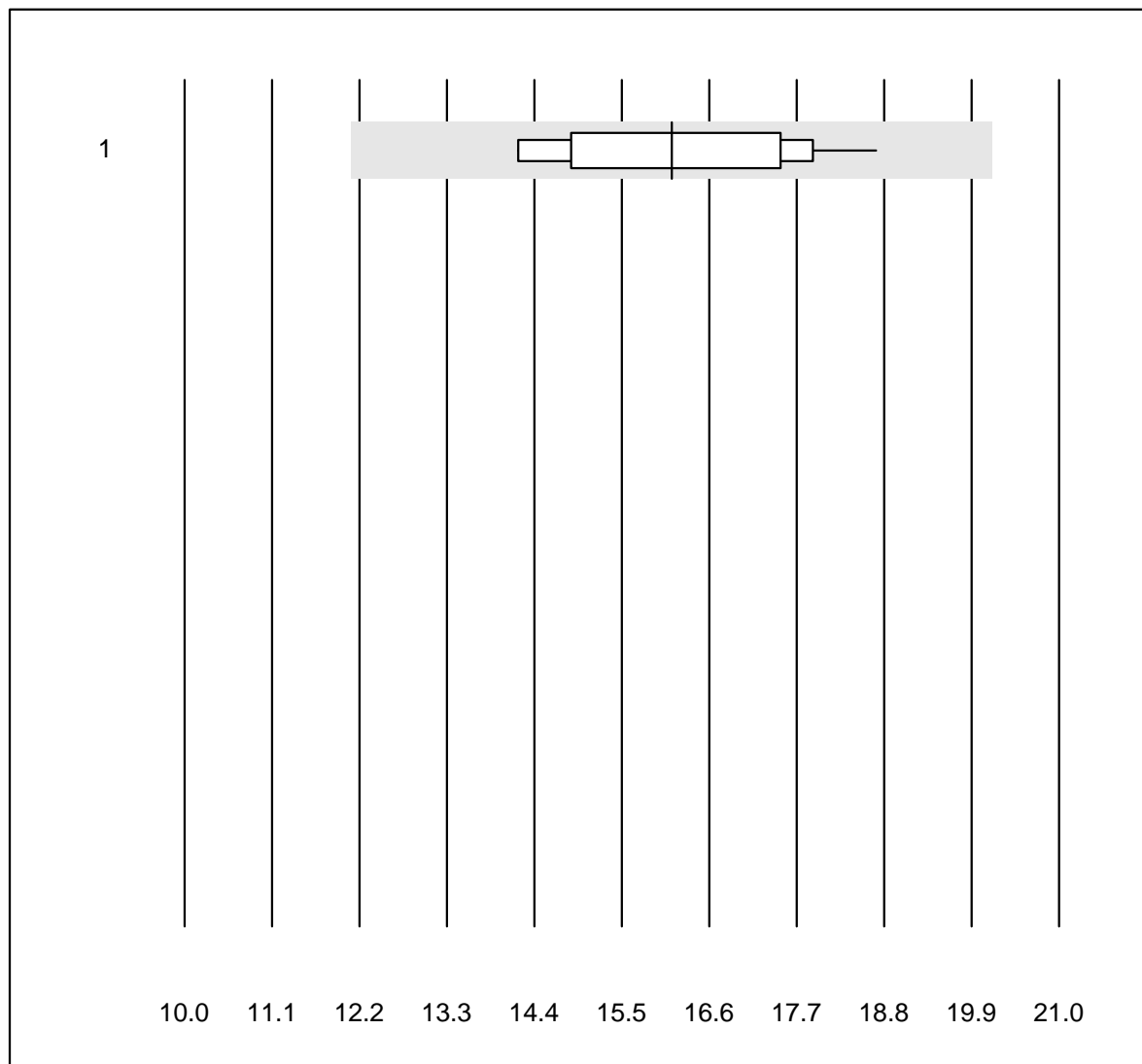
MQ tolerance : 20 %

CDT (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	5	80.0	20.0	0.0	0.80	31.7	a

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

Tacrolimus

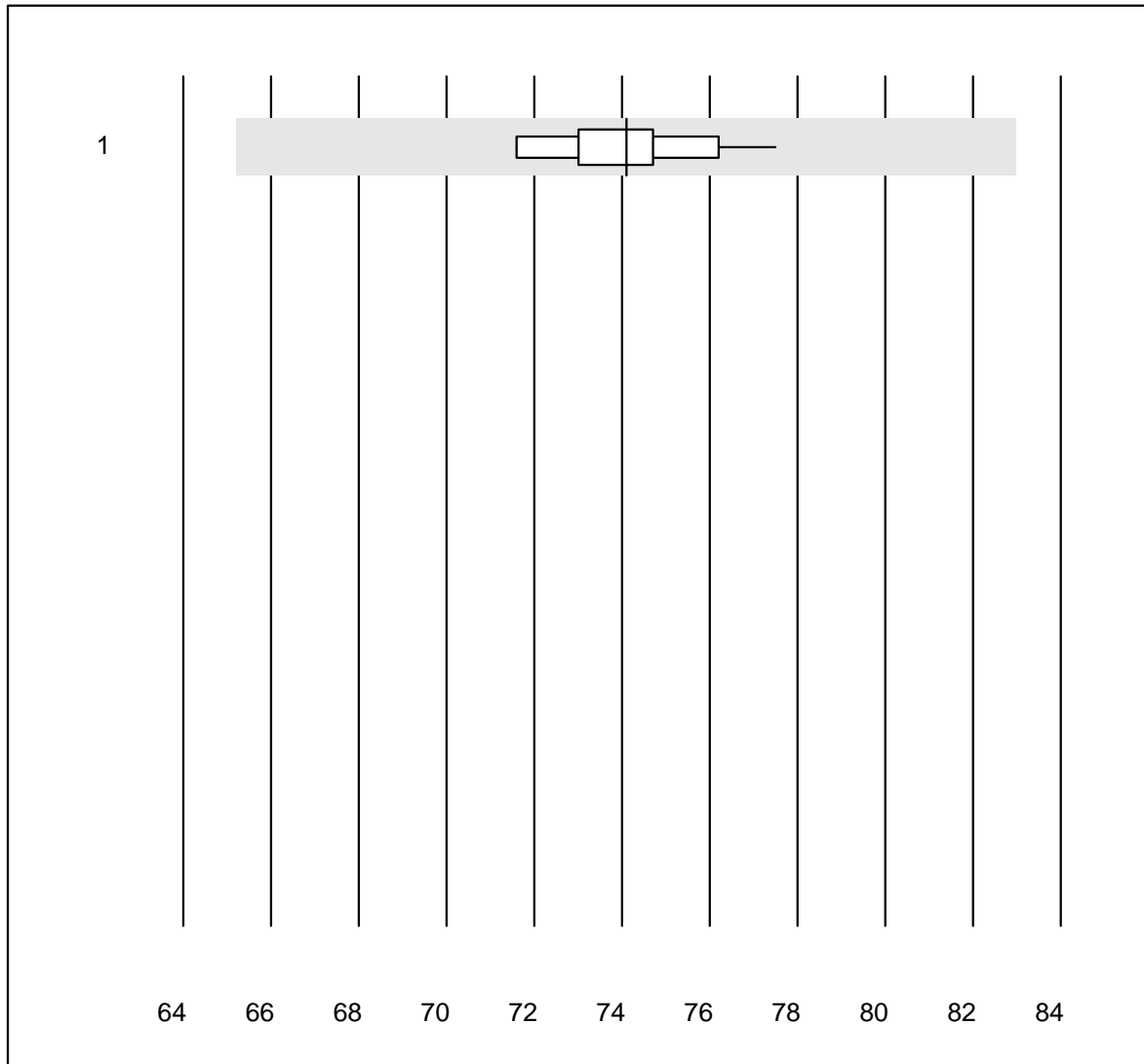


MQ tolerance : 25 %

Tacrolimus (µg/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	10	100.0	0.0	0.0	16.1	9.6	e*

Totalprotein E

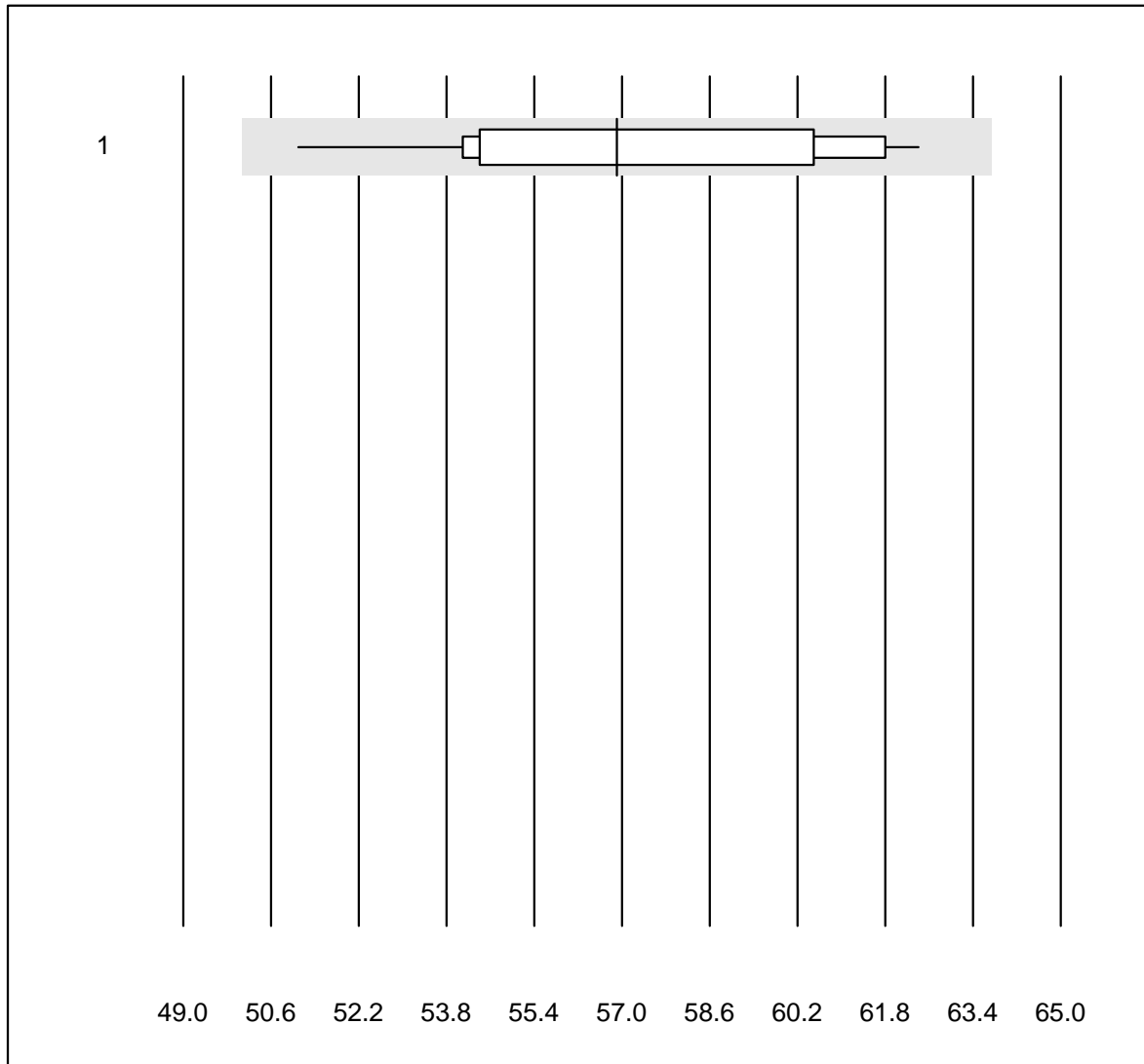


MQ tolerance : 12 %

Totalprotein E (g/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	17	94.1	0.0	5.9	74.1	2.0	e

Albumin E

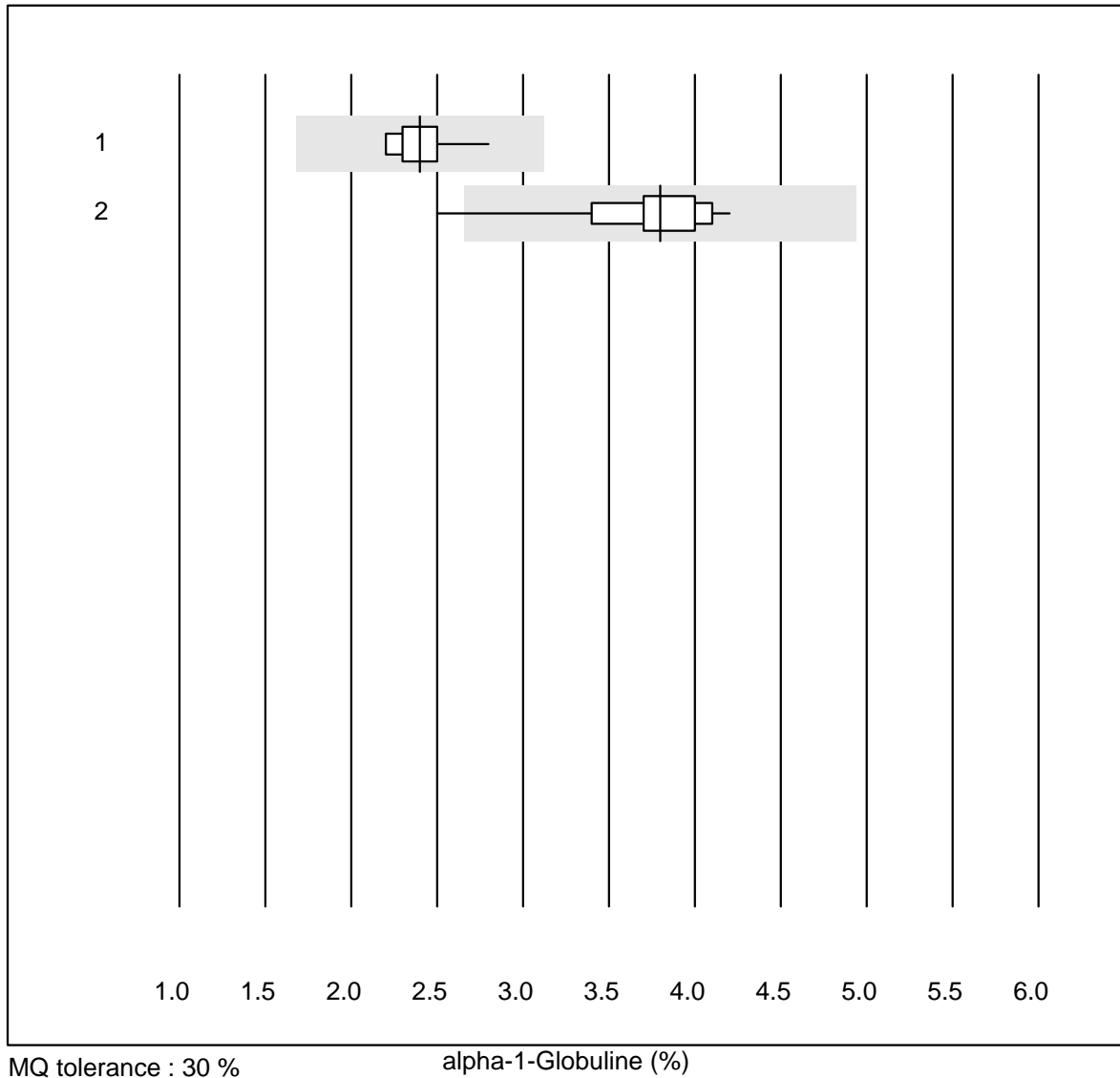


MQ tolerance : 12 %

Albumin E (%)

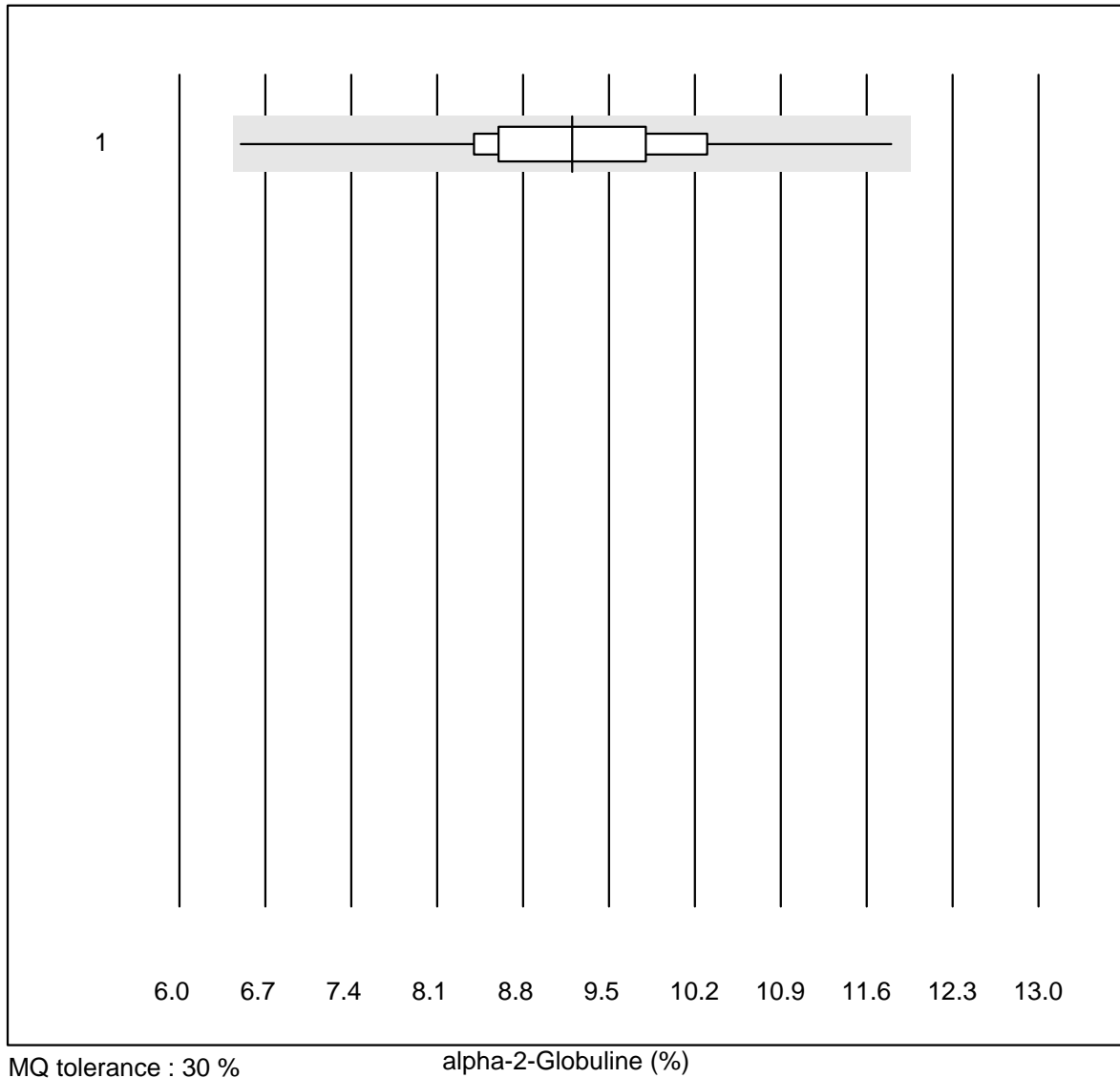
No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	24	100.0	0.0	0.0	56.9	6.0	e

alpha-1-Globuline



No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	11	100.0	0.0	0.0	2.4	7.2	e
2	capillary electropho	12	91.7	8.3	0.0	3.8	12.1	e

alpha-2-Globuline

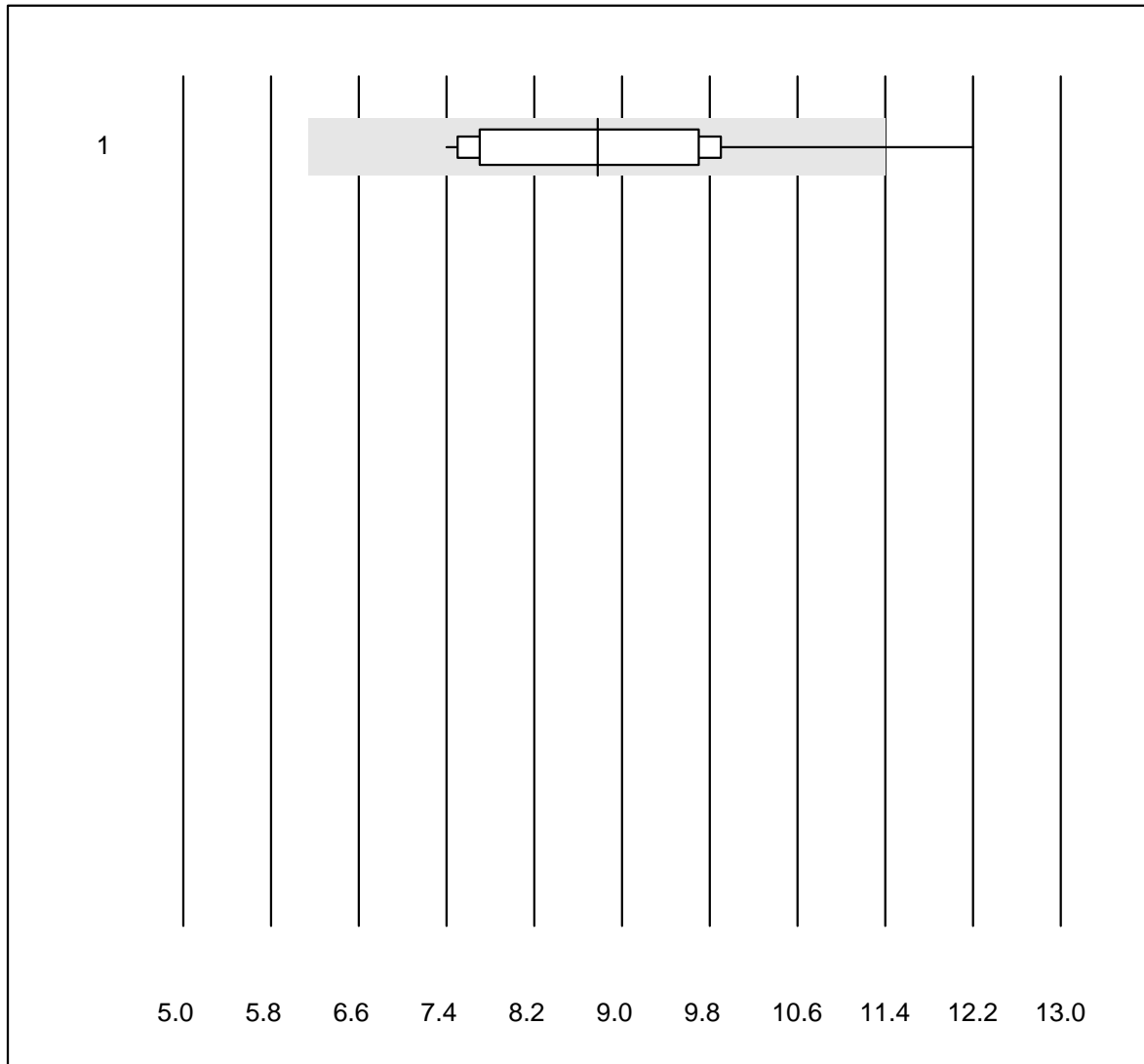


MQ tolerance : 30 %

alpha-2-Globuline (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	22	100.0	0.0	0.0	9.2	11.4	e

beta-Globuline

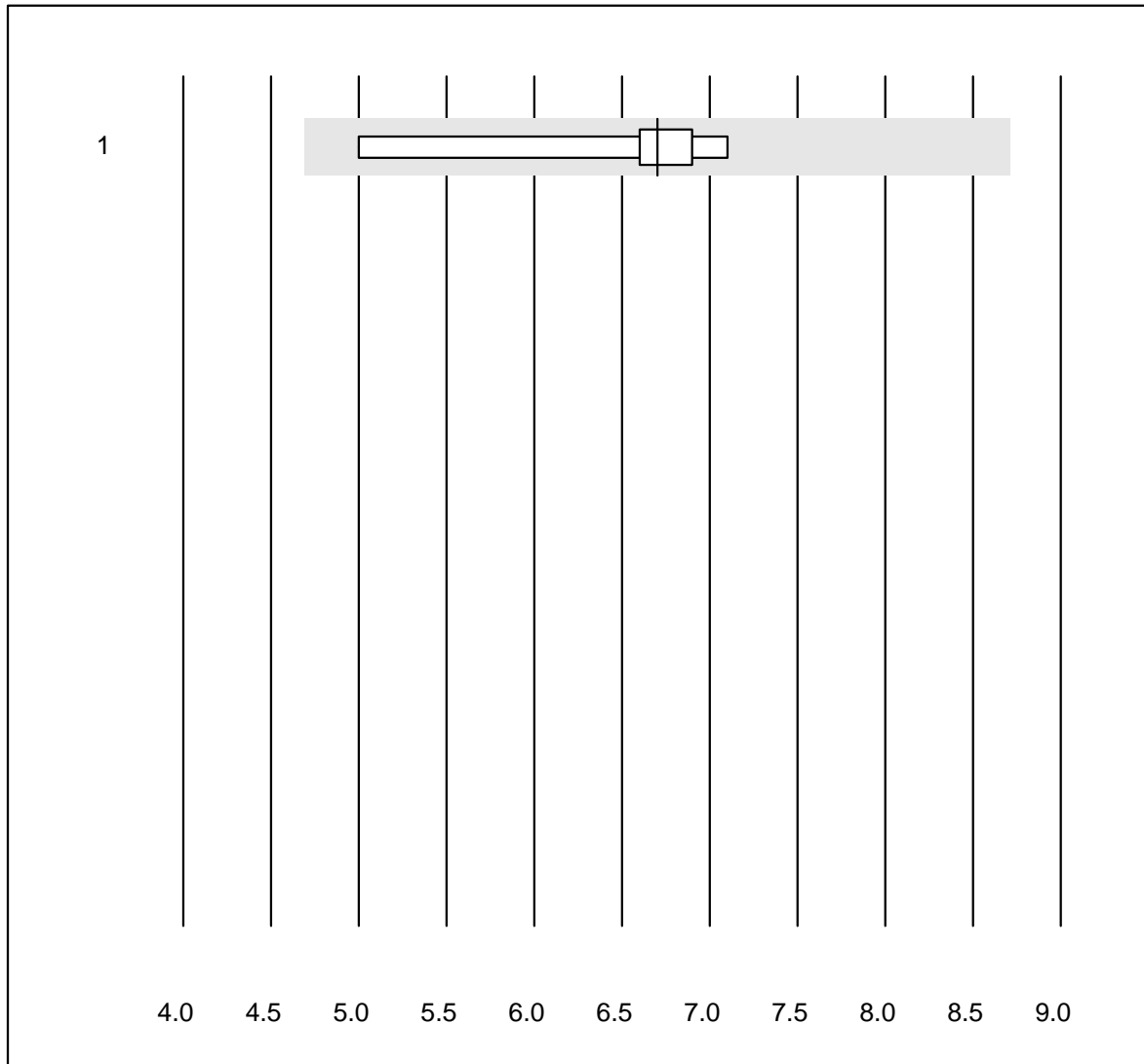


MQ tolerance : 30 %

beta-Globuline (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	17	94.1	5.9	0.0	8.8	14.7	e

Beta-1-Globulin

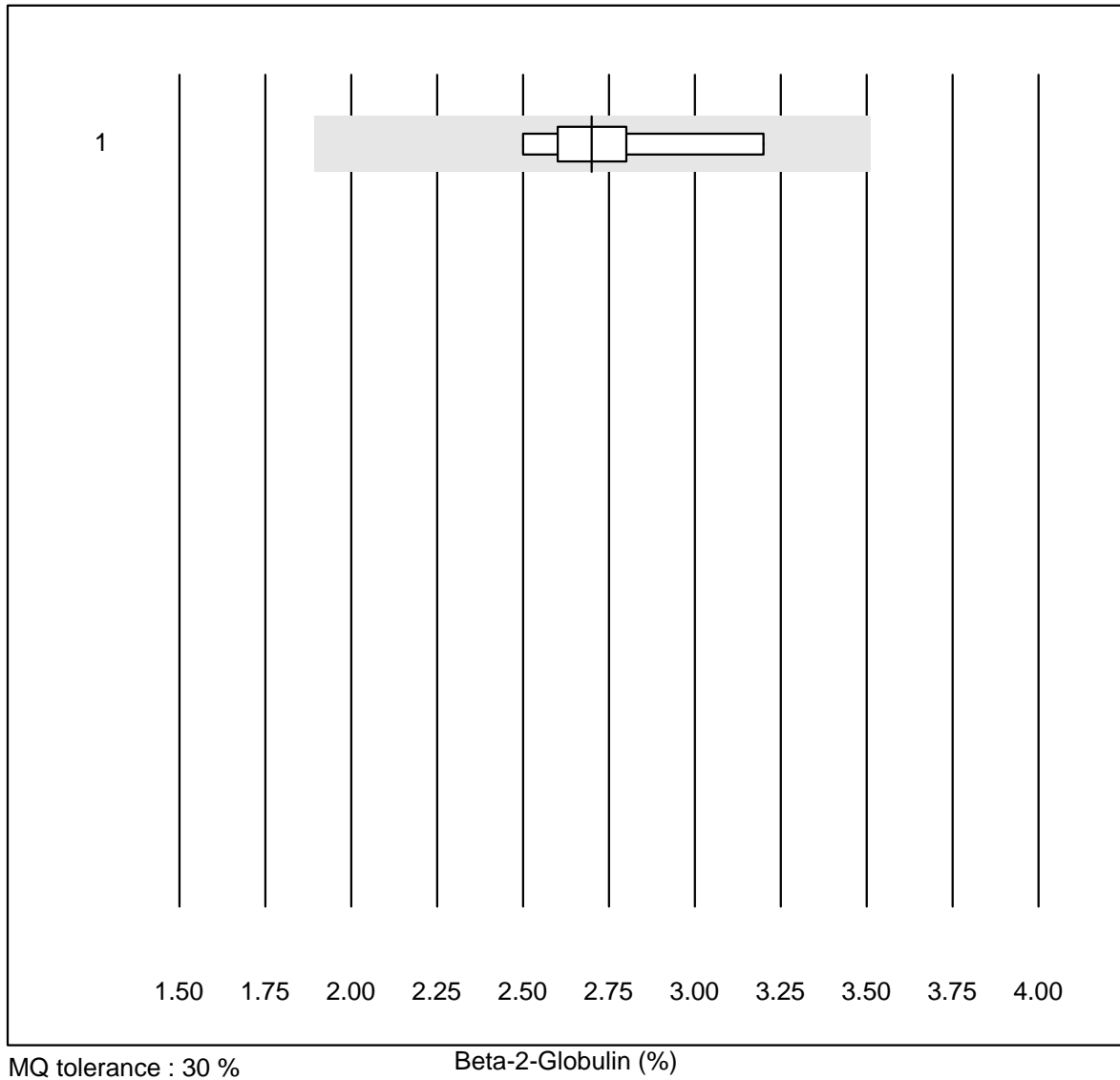


MQ tolerance : 30 %

Beta-1-Globulin (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	9	100.0	0.0	0.0	6.7	9.4	e

Beta-2-Globulin

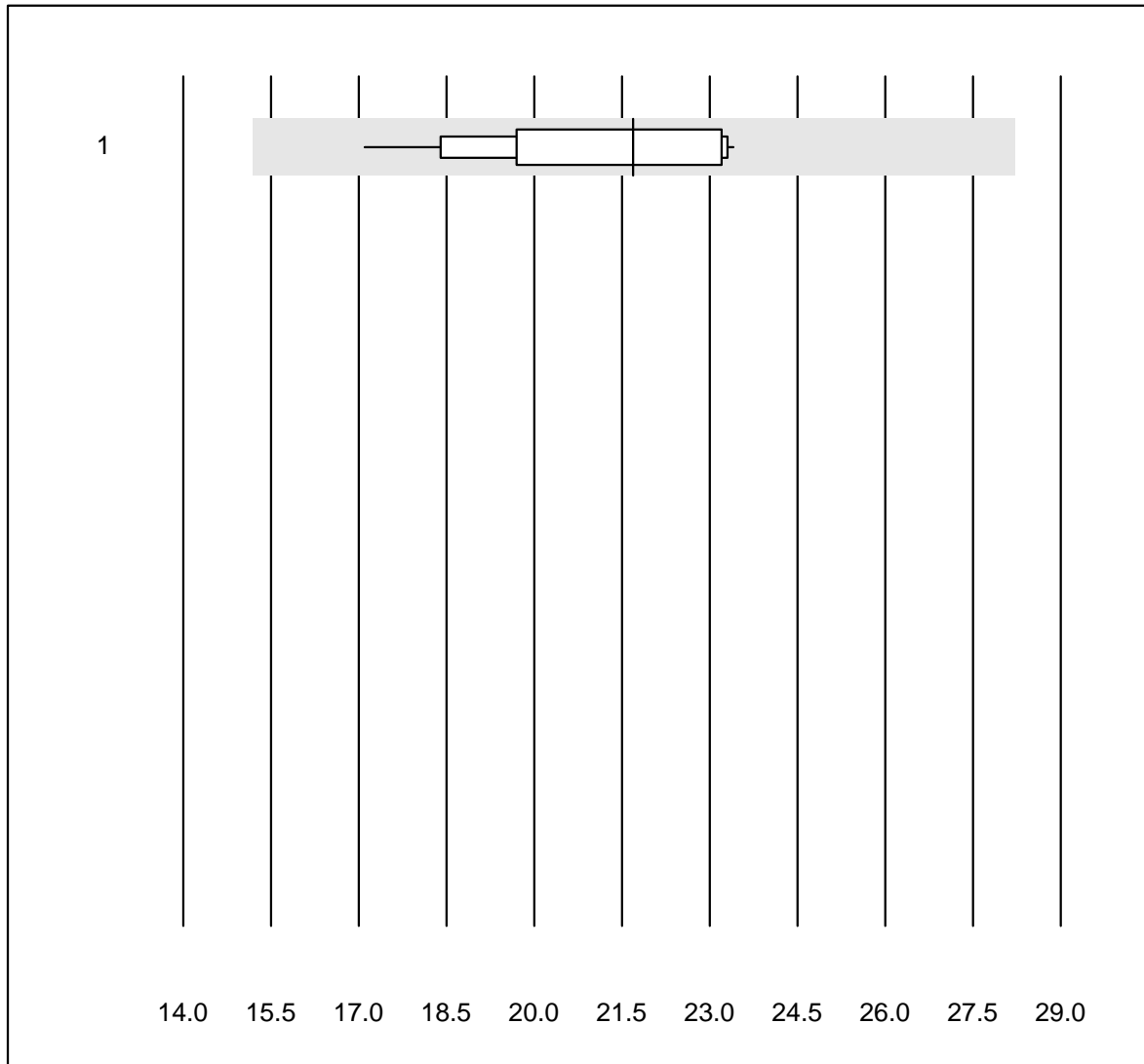


MQ tolerance : 30 %

Beta-2-Globulin (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	9	100.0	0.0	0.0	2.7	8.6	e

gamma-Globuline

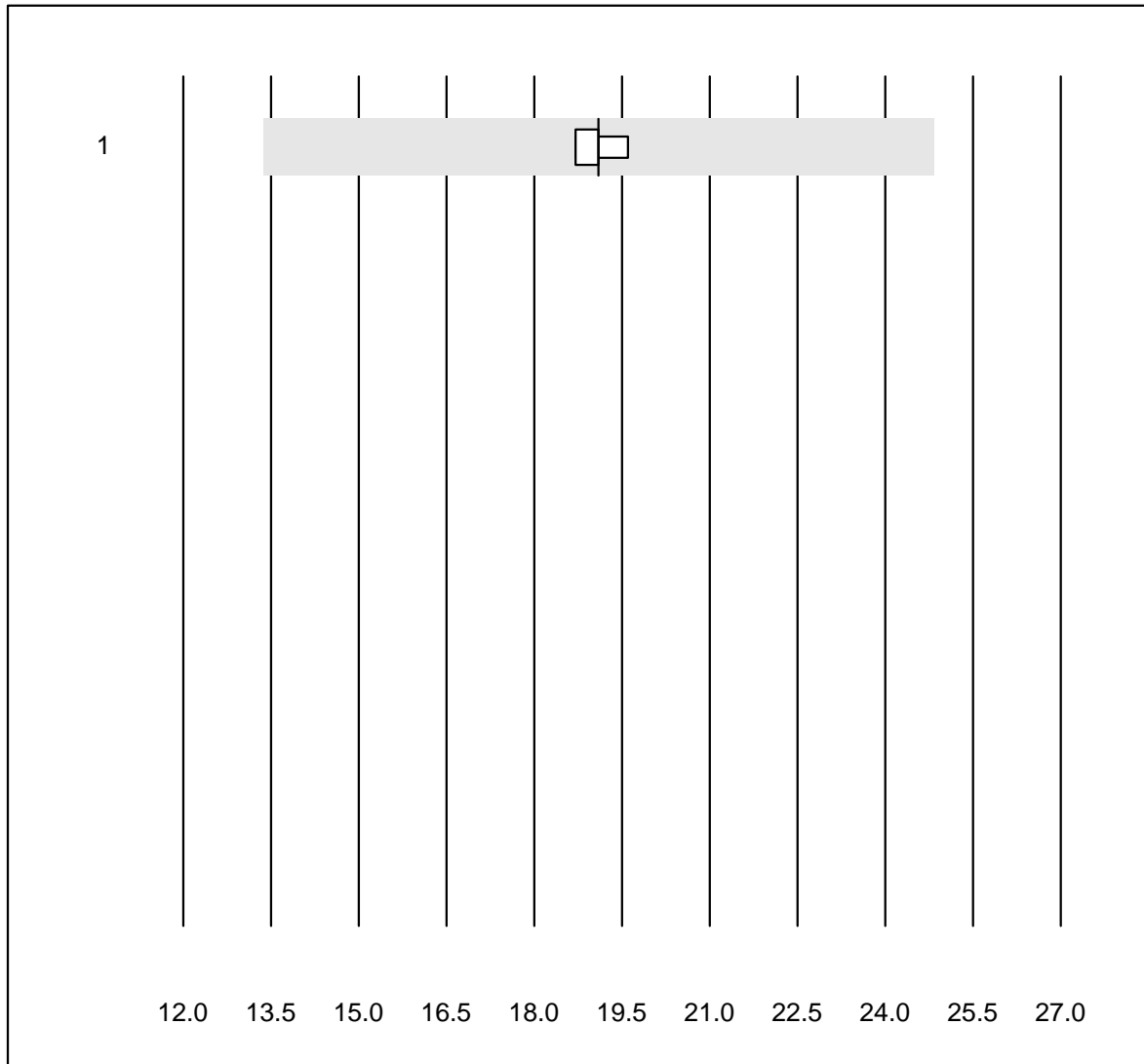


MQ tolerance : 30 %

gamma-Globuline (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	19	100.0	0.0	0.0	21.7	9.7	e

Gamma-Globuline+P

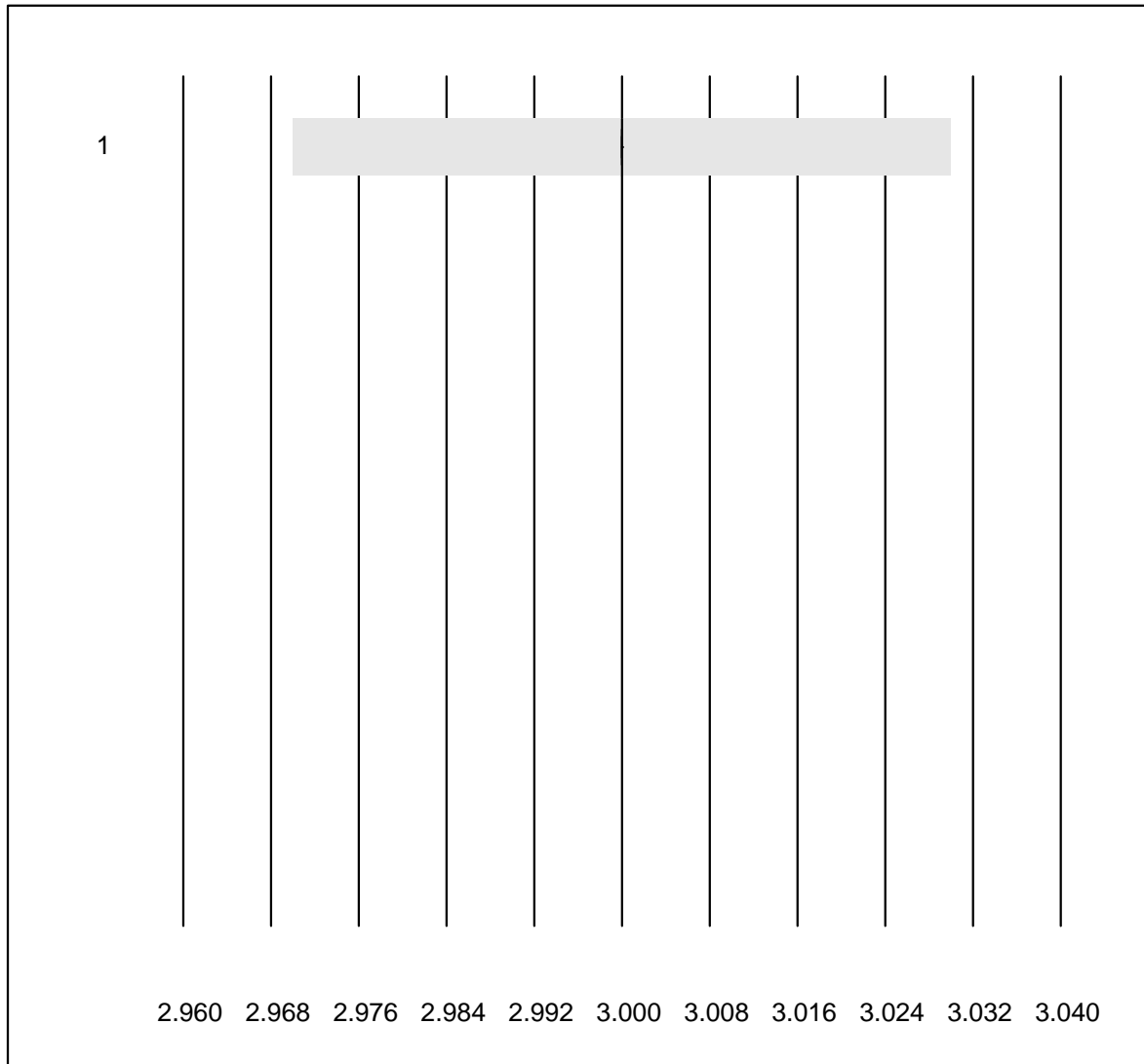


MQ tolerance : 30 %

Gamma-Globuline+P (%)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Electrophoresis	4	100.0	0.0	0.0	19.1	1.9	e

Immundefixation

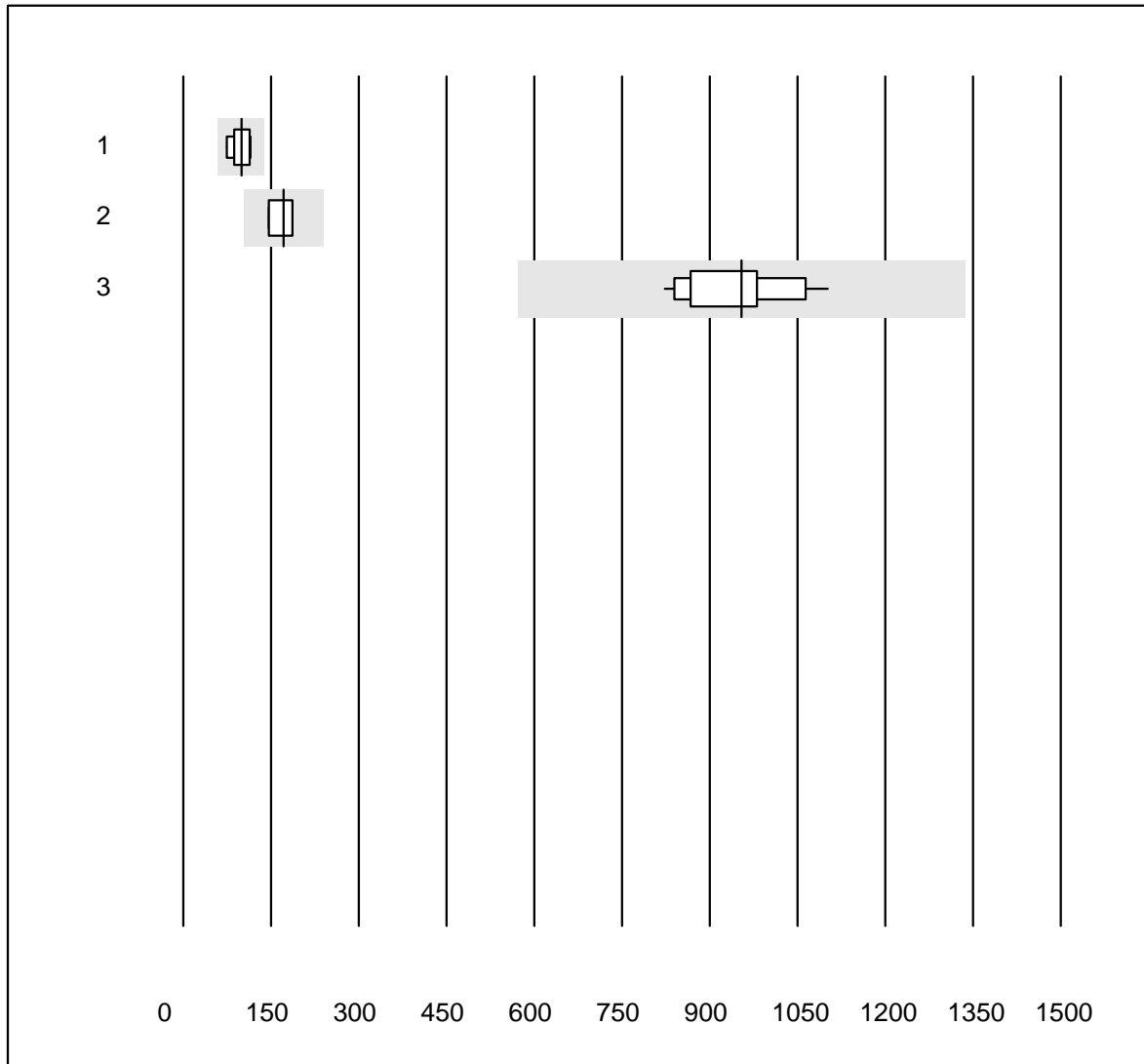


QUALAB tolerance : 1 %

Immundefixation (Code)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Interpretation	20	100.0	0.0	0.0	3	0.0	e

Folate in Erythrocytes



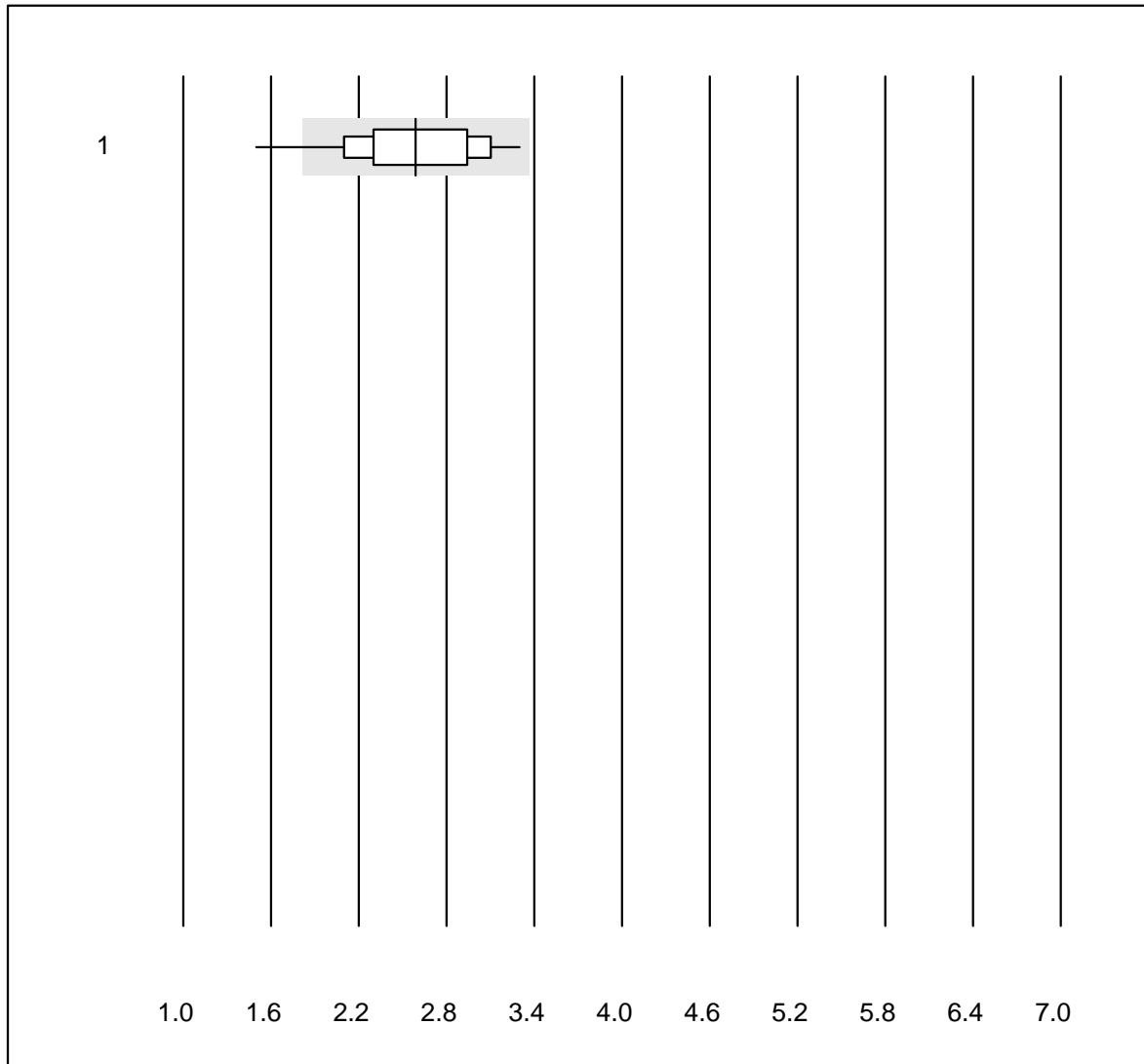
MQ tolerance : 40 %

Folate in Erythrocytes (nmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Alinity	7	100.0	0.0	0.0	99	14.3	e*
2	Architect	4	100.0	0.0	0.0	172	12.4	e*
3	Cobas	13	92.3	0.0	7.7	954	9.2	e

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

Gallensäure



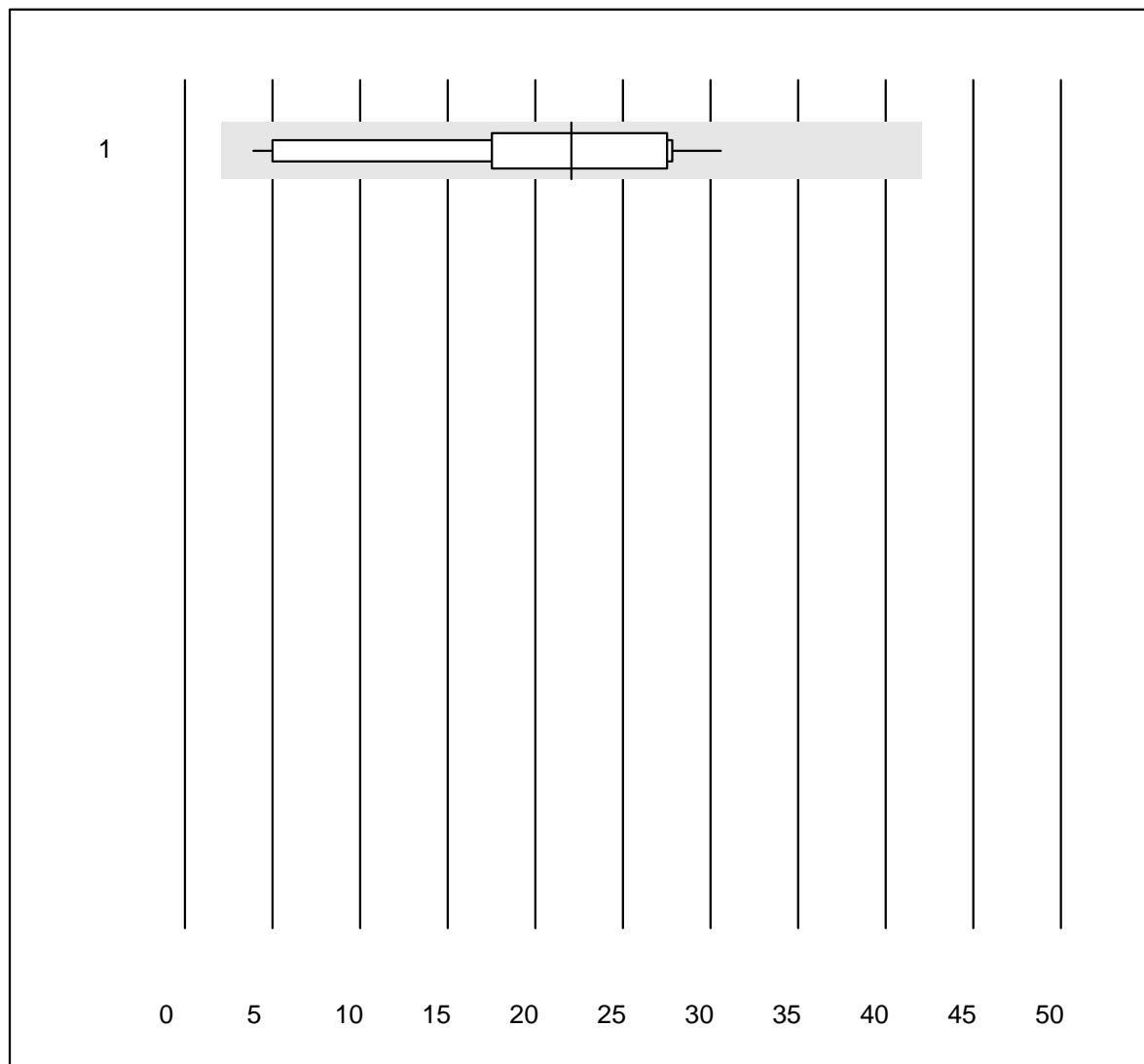
MQ tolerance : 30 %
(< 5.0: +/- 1.5 µmol/l)

Gallensäure (µmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 all Participants	22	91.0	4.5	4.5	2.6	17.4	a

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

BNP

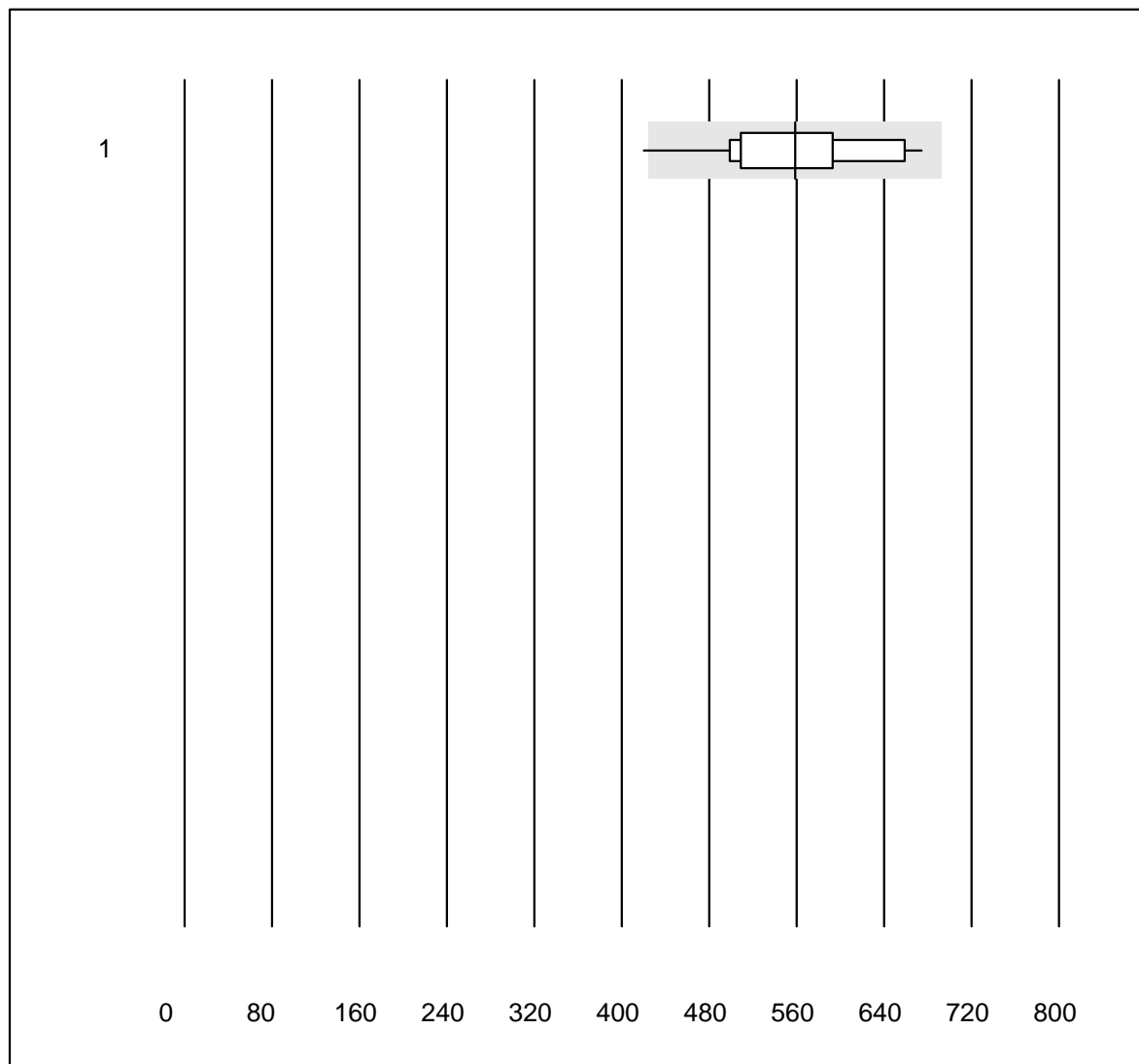


QUALAB tolerance : 27 %
 (< 75.0: +/- 20.0 ng/l)

BNP (ng/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Triage	15	93.3	0.0	6.7	22.1	38.5	e*

Troponin Triage



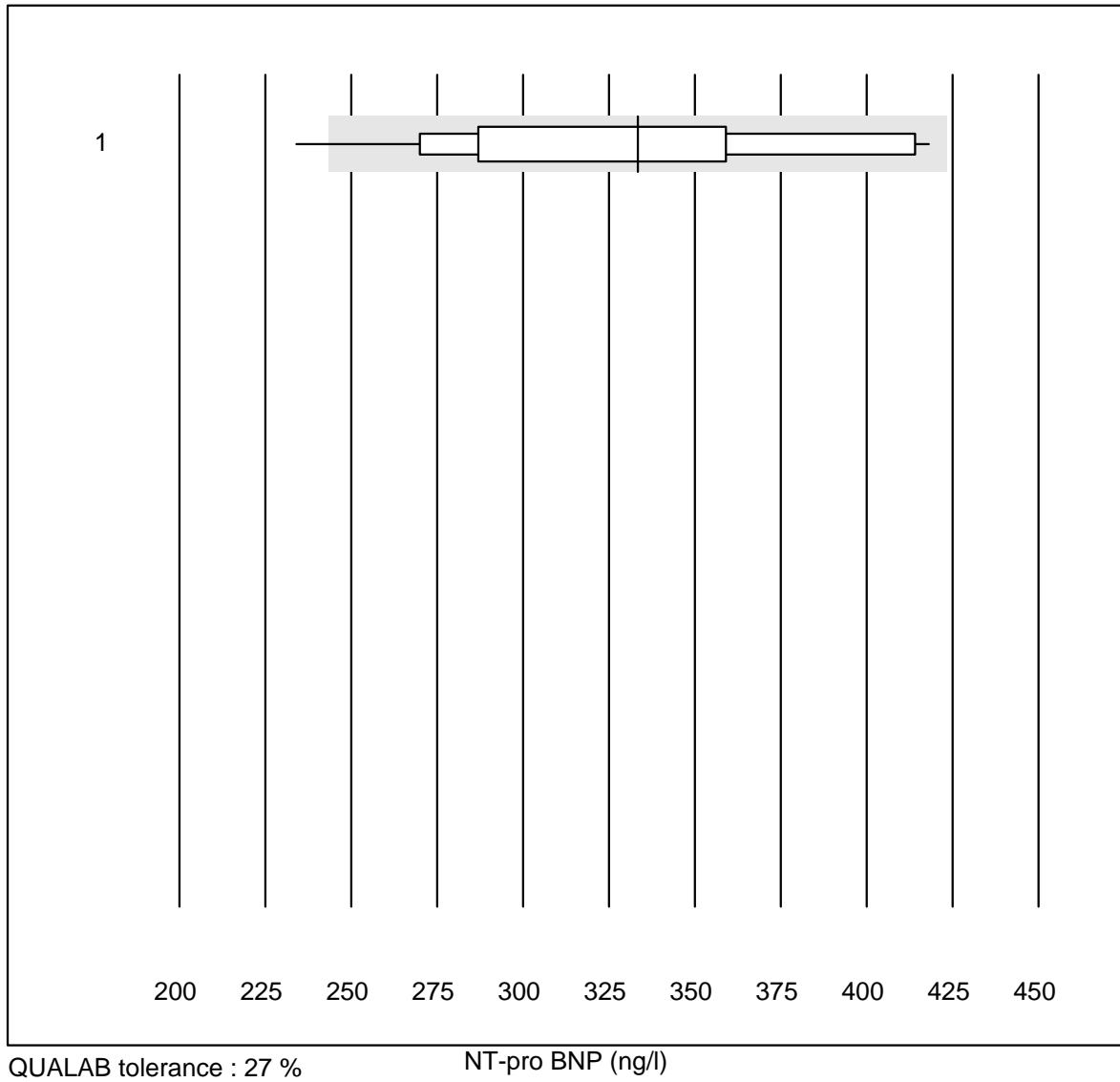
QUALAB tolerance : 24 %

Troponin Triage (ng/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Triage high sensitiv	29	96.6	3.4	0.0	558.41	11.2	e

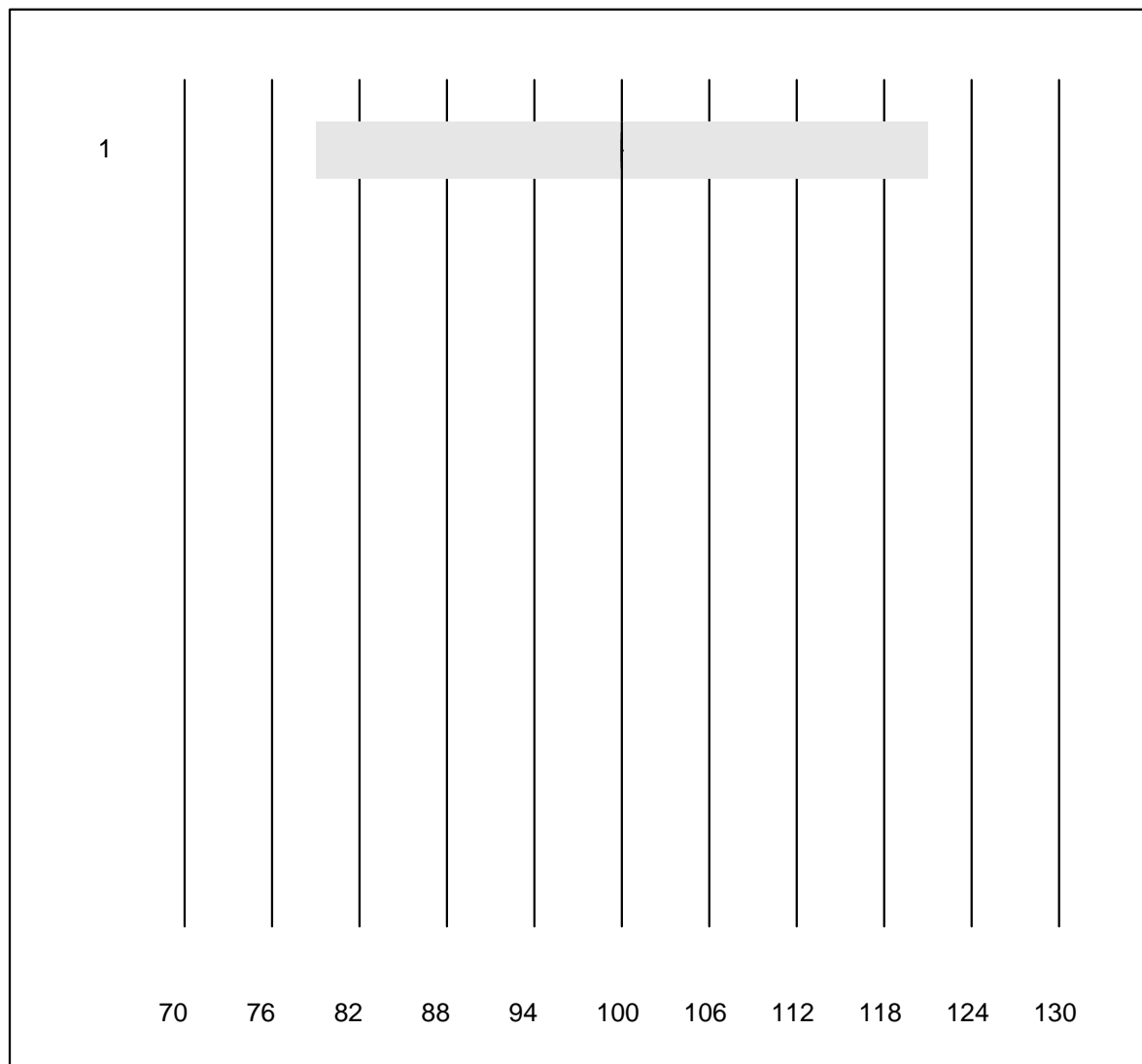
3 additional results were submitted, but not published, because the Method groups were too small. (<4 results per group)

NT-pro BNP



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV% Type
1 Triage	16	93.7	6.3	0.0	334	16.0 e*

D-dimer Triage

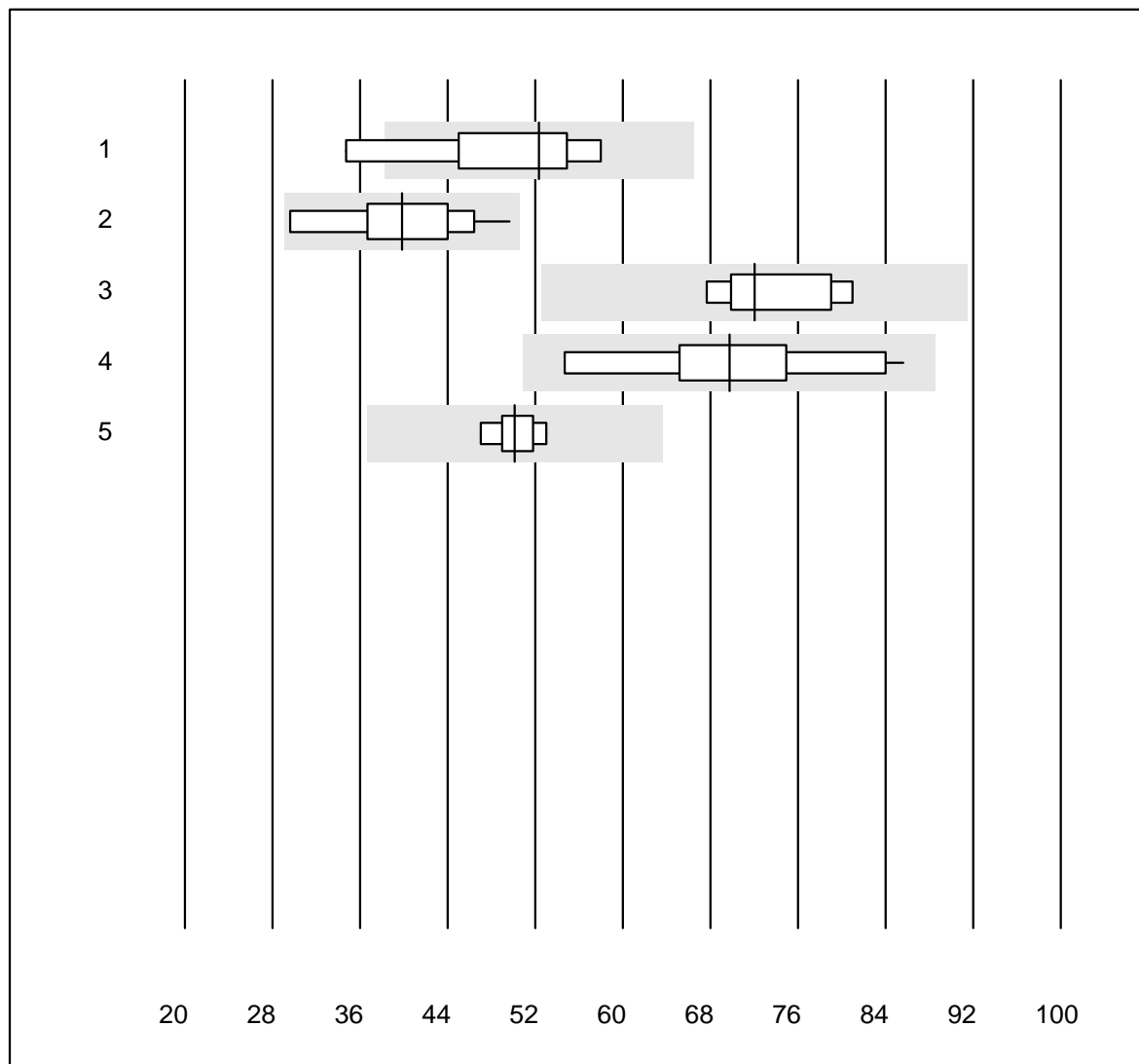


QUALAB tolerance : 21 %

D-dimer Triage (ng/ml)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Triage	38	100.0	0.0	0.0	100.00	0.0	e

Vitamin D 25 (OH)



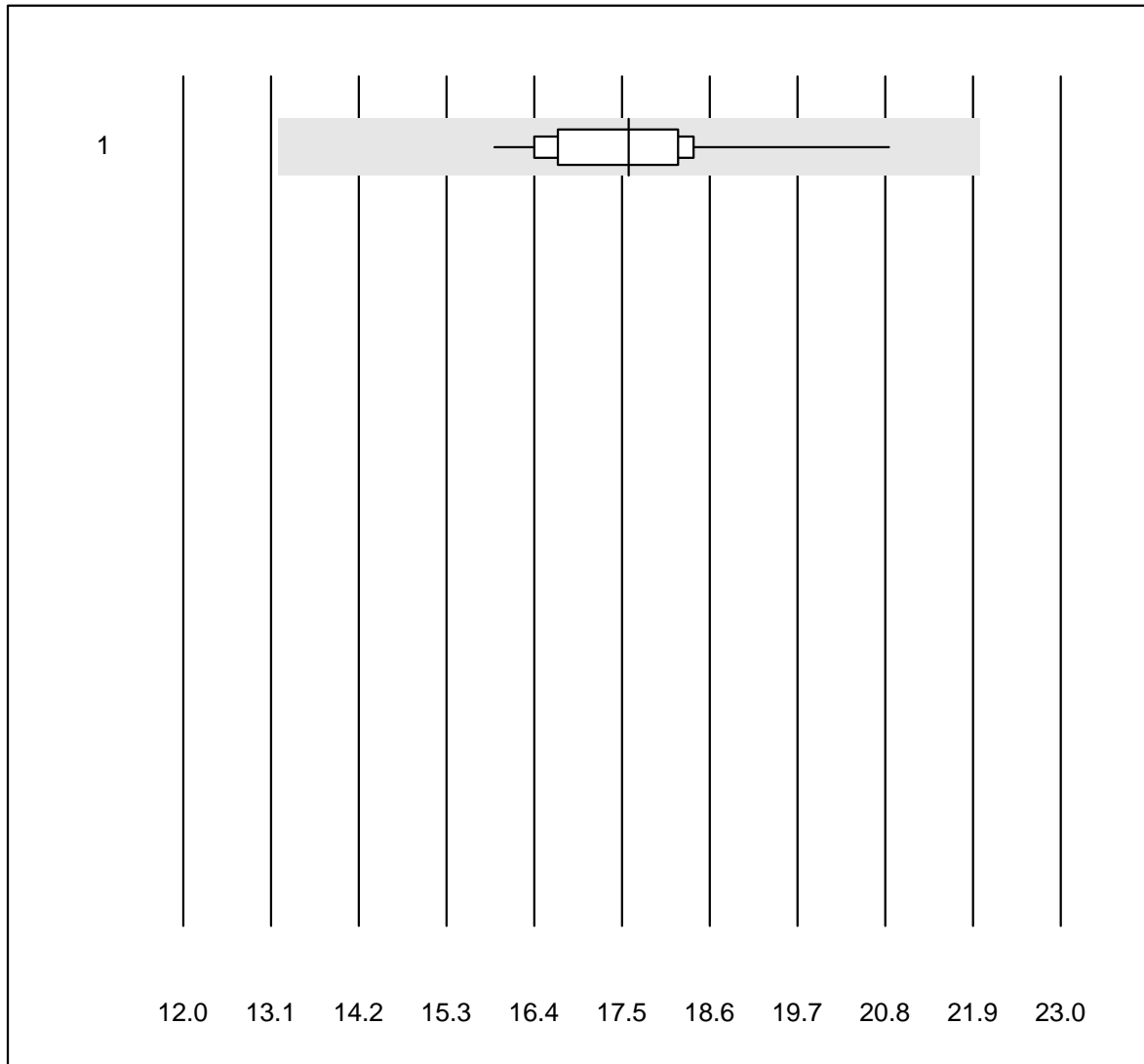
QUALAB tolerance : 27 %

Vitamin D 25 (OH) (nmol/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 LCMS	8	87.5	12.5	0.0	52.3	15.2	e*
2 Cobas	10	100.0	0.0	0.0	39.8	15.3	e*
3 VIDAS	6	100.0	0.0	0.0	72.0	7.2	e
4 Other methods	13	76.9	0.0	23.1	69.7	13.9	e*
5 Architect	9	100.0	0.0	0.0	50.1	3.9	e

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

AMH



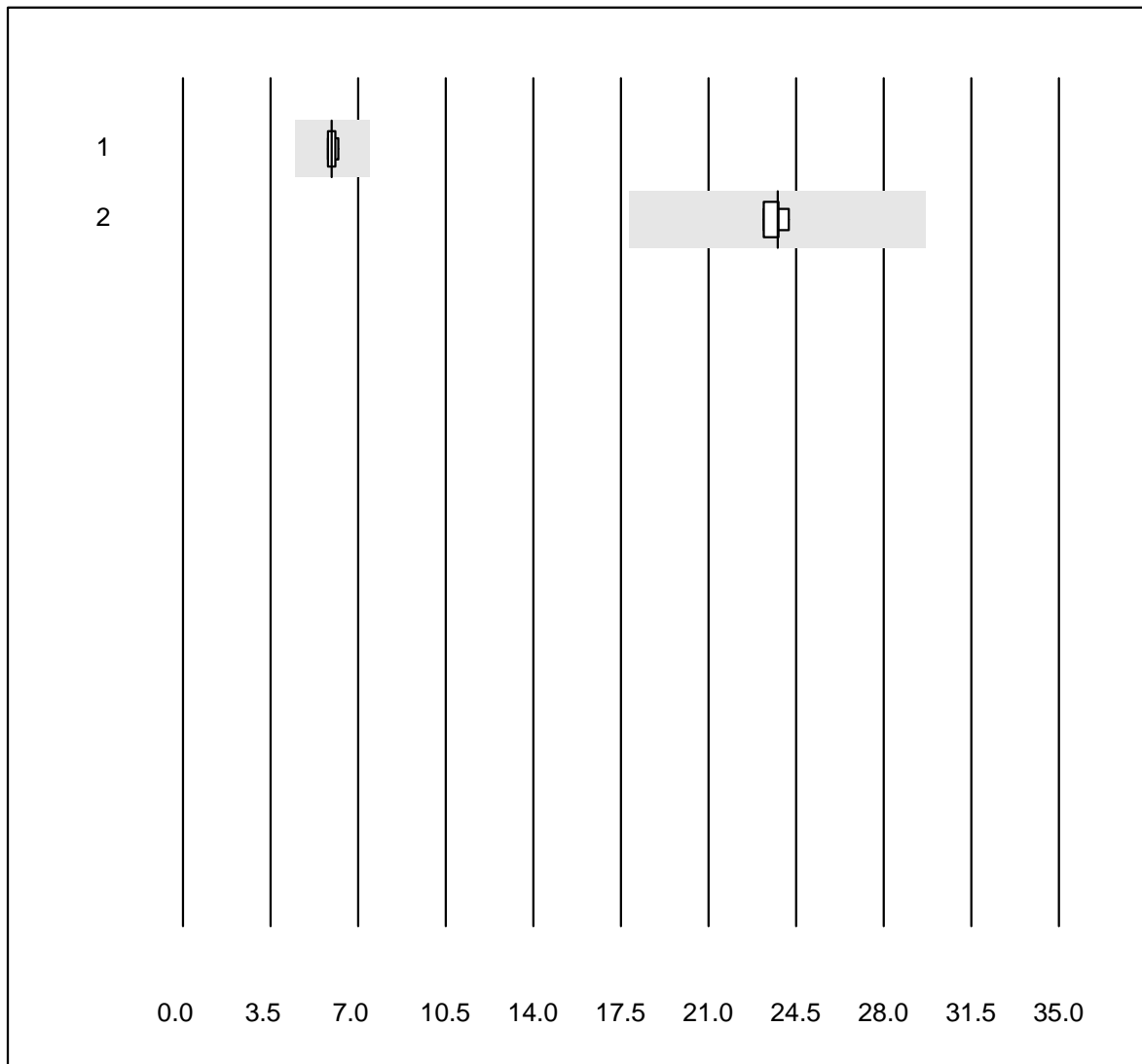
MQ tolerance : 25 %

AMH (pmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	11	100.0	0.0	0.0	17.6	7.5	e

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

Calcitonin

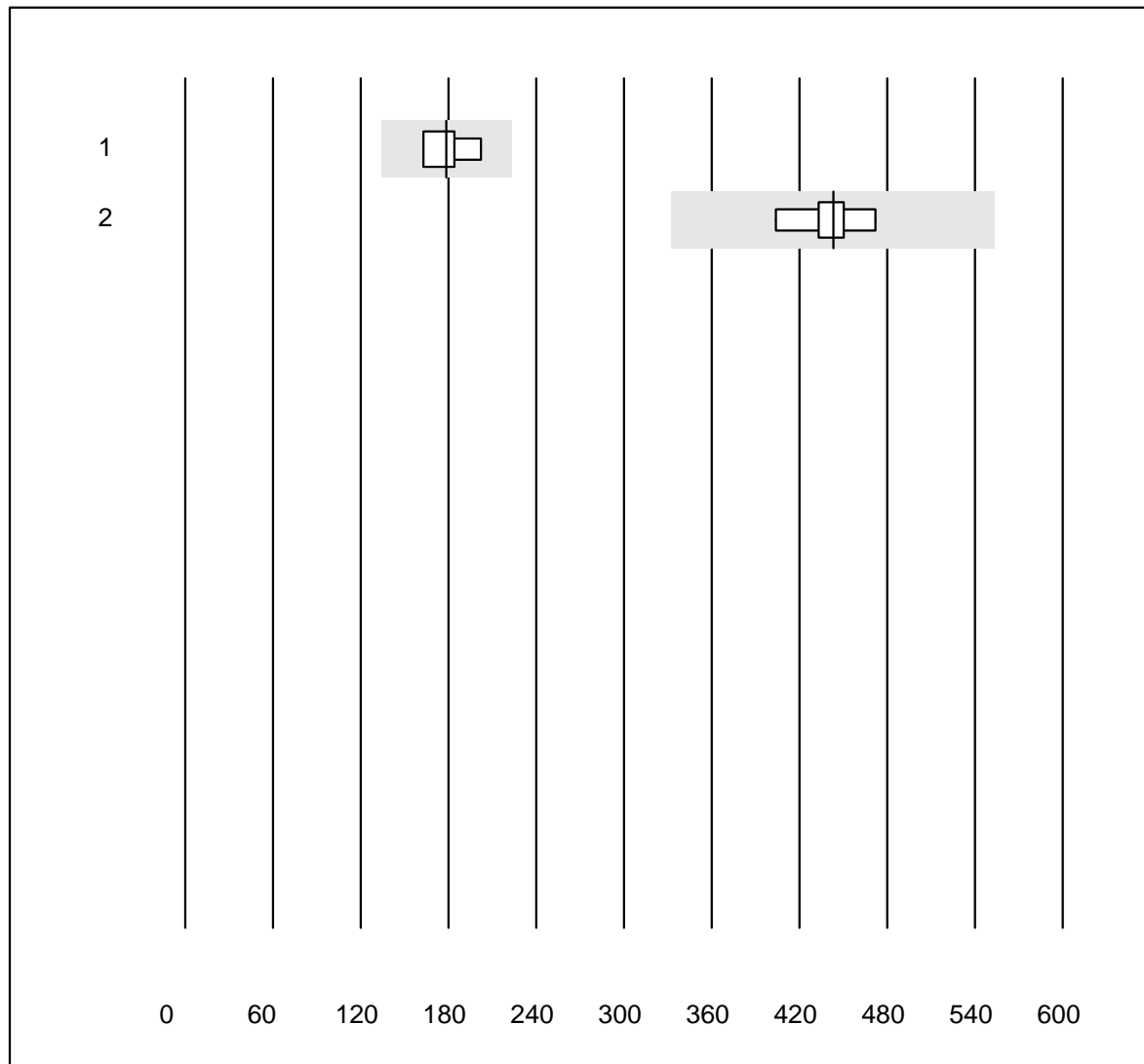


MQ tolerance : 25 %

Calcitonin (pmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Liaison	5	100.0	0.0	0.0	6.0	3.1	e
2	Other methods	4	100.0	0.0	0.0	23.8	1.7	e

Anti Thyreoglobulin



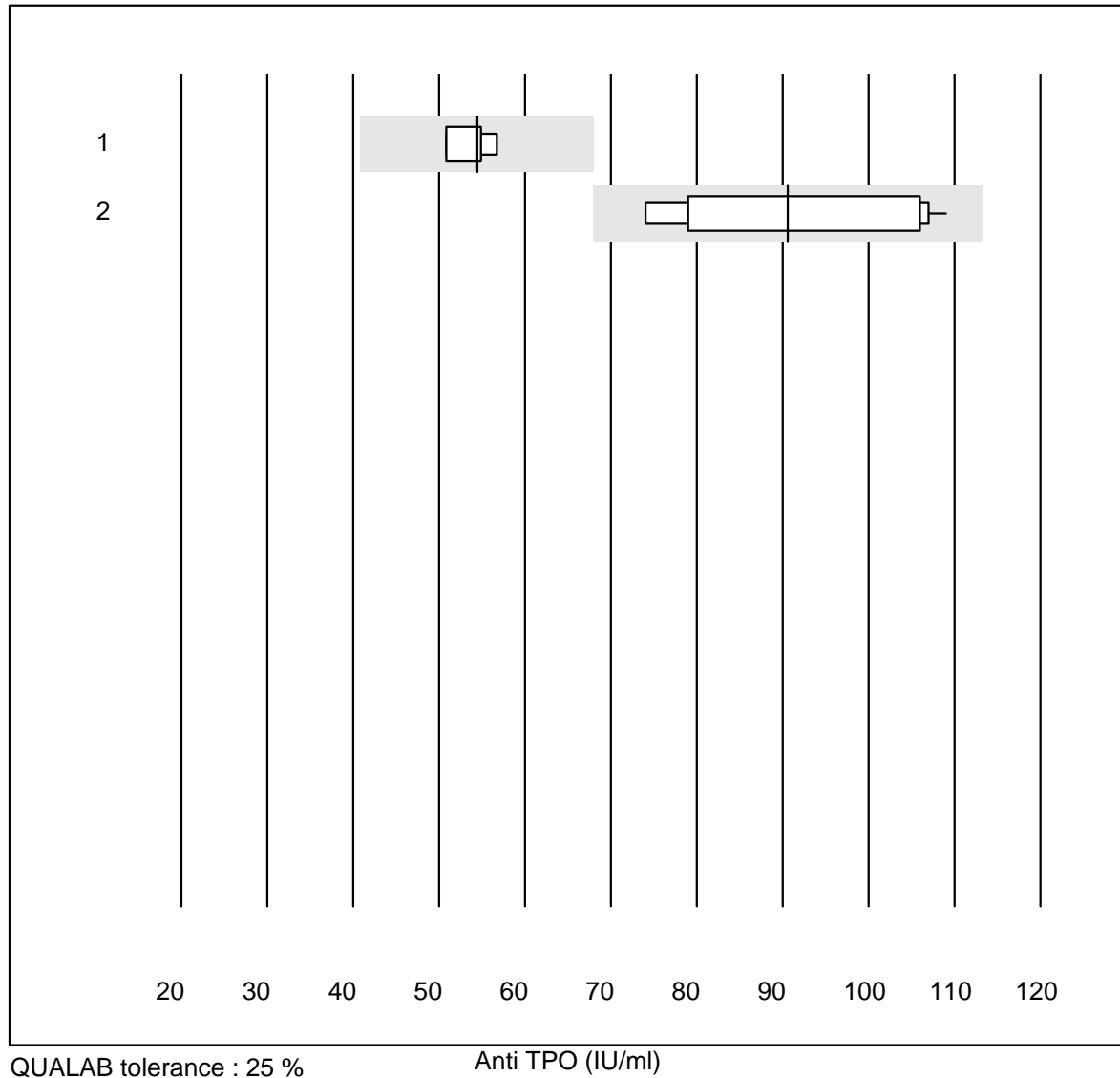
MQ tolerance : 25 %

Anti Thyreoglobulin (IU/ml)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Phadia	4	100.0	0.0	0.0	179	9.3	e*
2 Cobas	7	100.0	0.0	0.0	443	4.6	e

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

Anti TPO



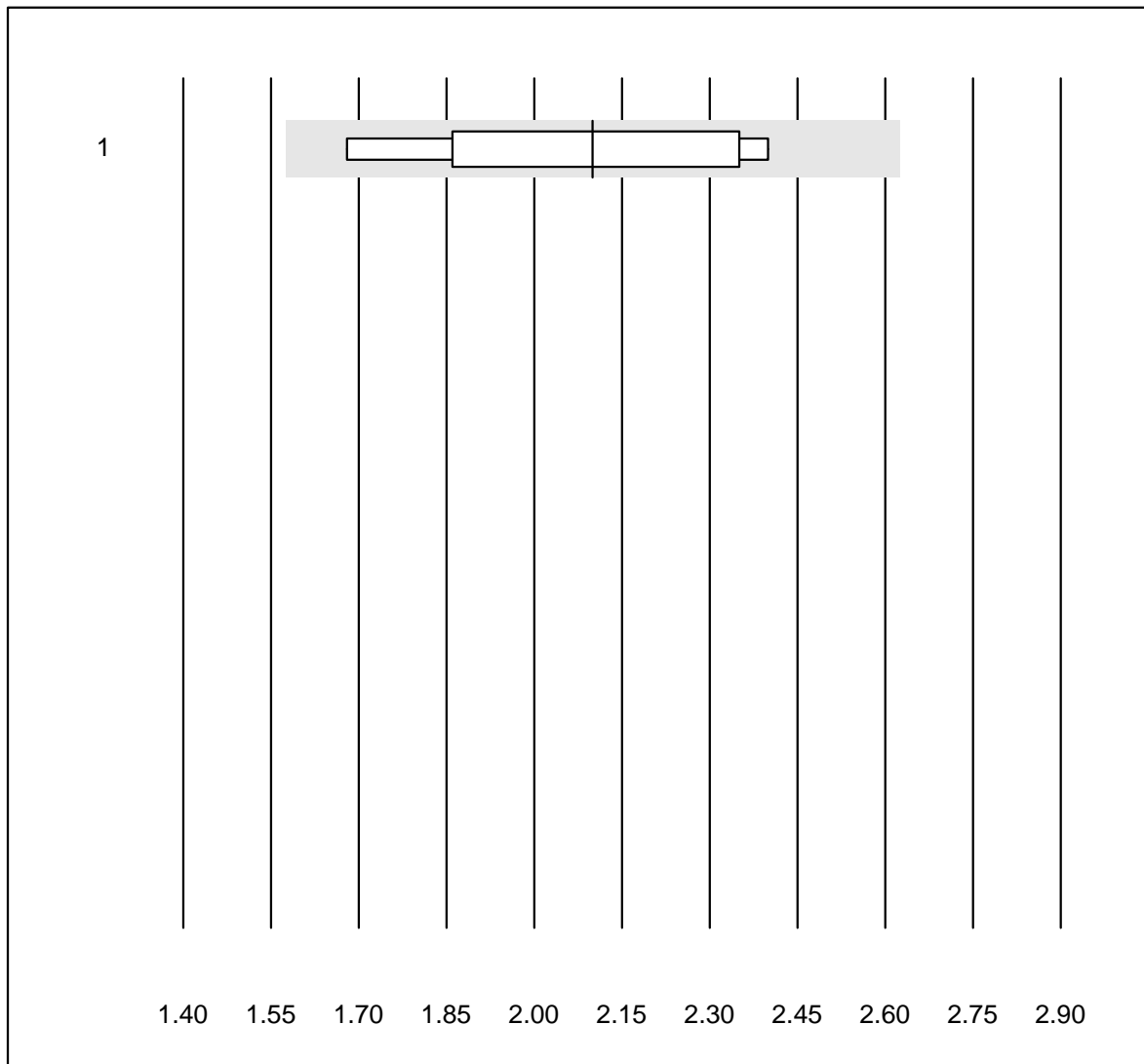
QUALAB tolerance : 25 %

Anti TPO (IU/ml)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Alinity	4	100.0	0.0	0.0	54	4.6	e
2	Cobas	10	100.0	0.0	0.0	91	14.3	e*

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

TRAK



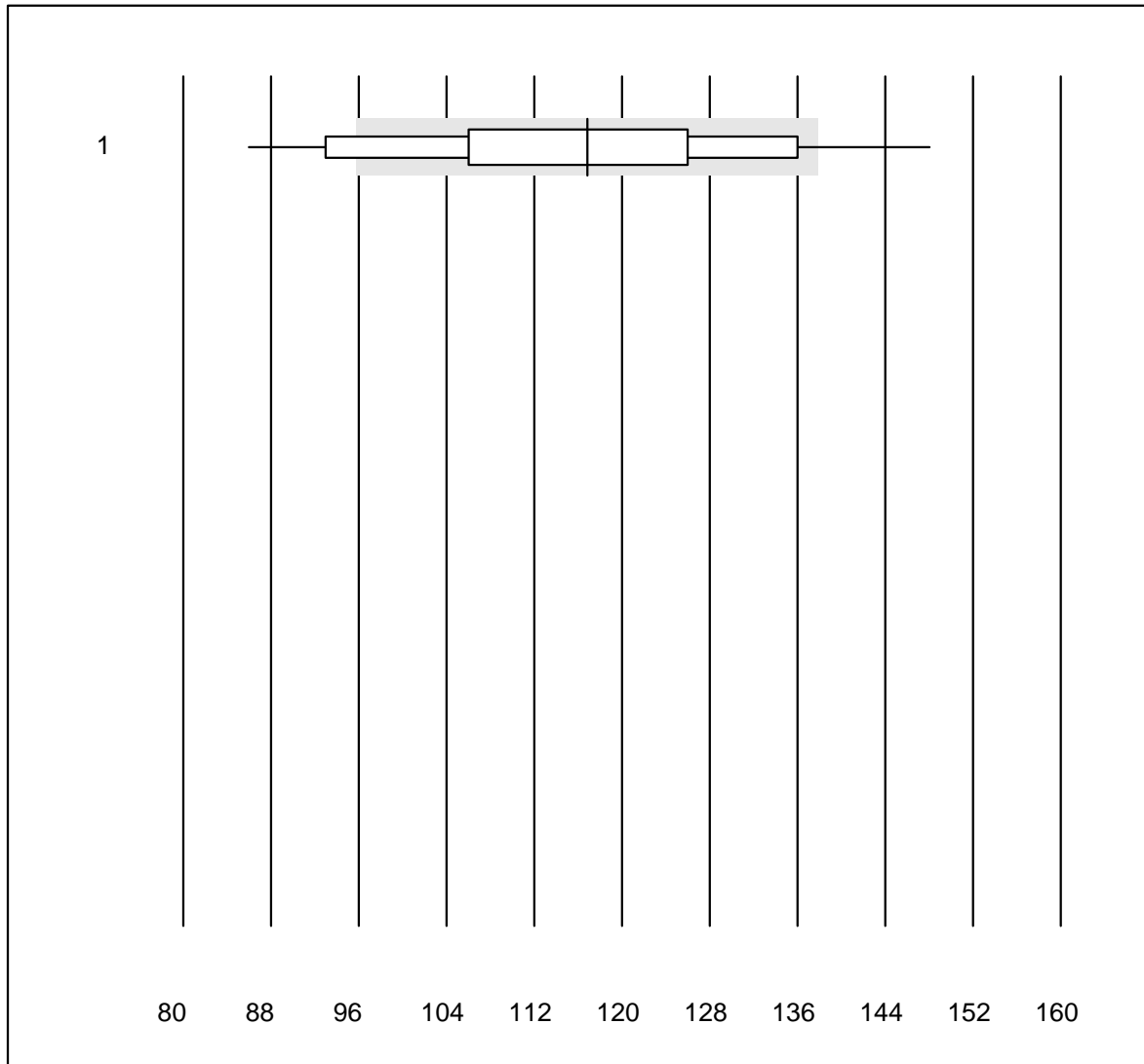
MQ tolerance : 25 %

TRAK (IU/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas	7	100.0	0.0	0.0	2.10	12.9	e*

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

Creatinine WB

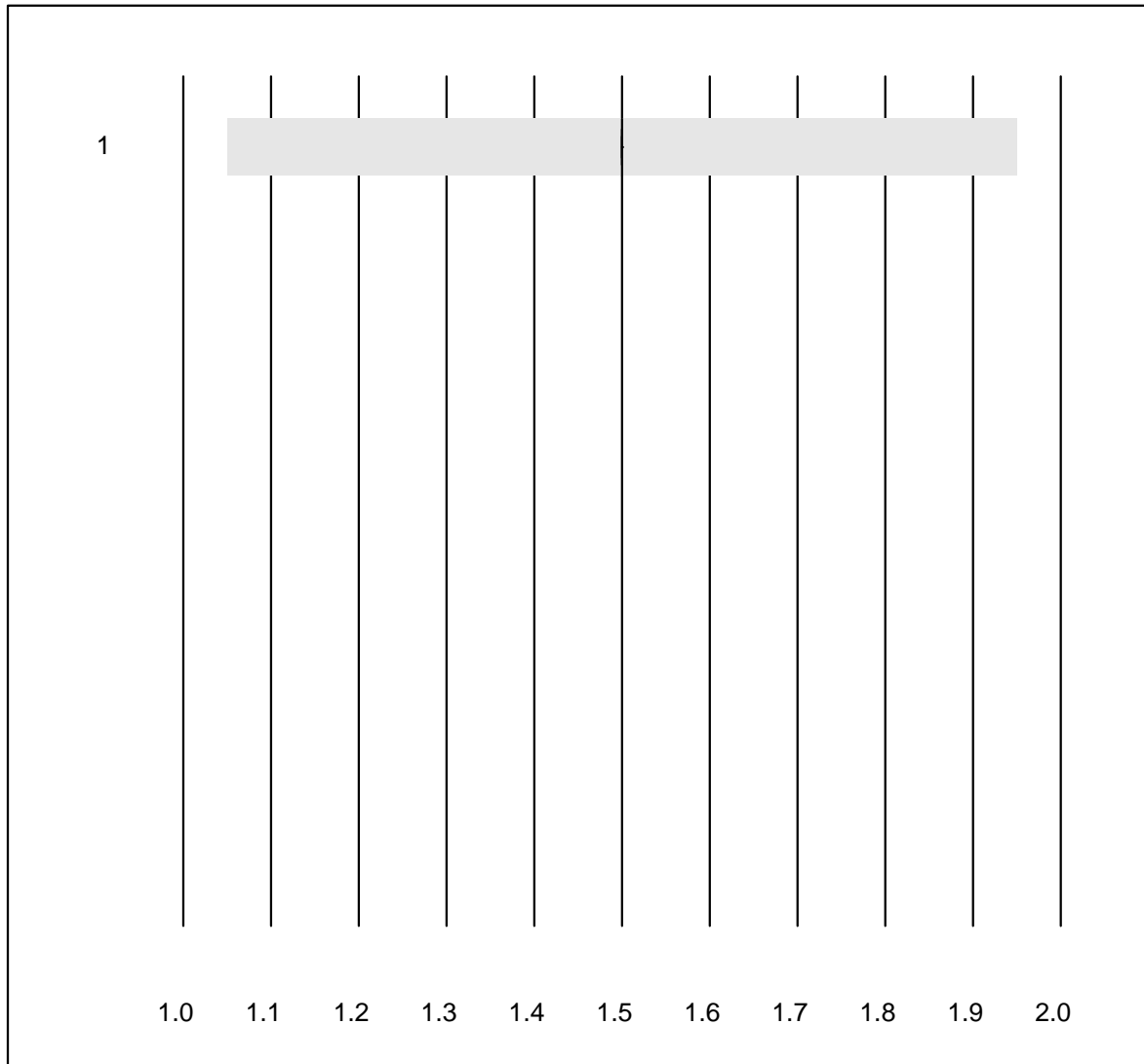


QUALAB tolerance : 18 %

Creatinine WB ($\mu\text{mol/l}$)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Statsensor i / Nova	54	72.2	18.5	9.3	117	13.1	e

IL6

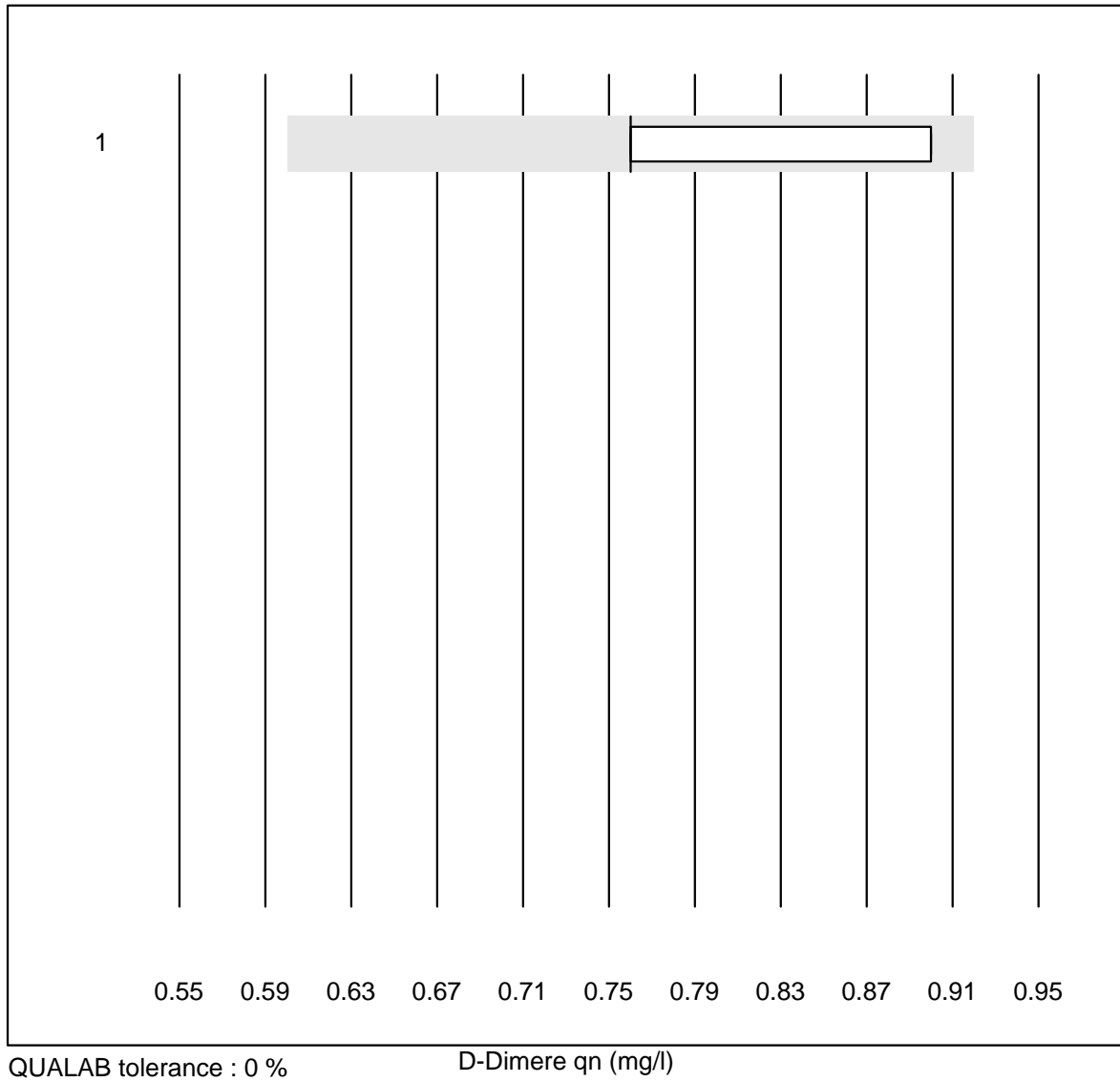


MQ tolerance : 30 %

IL6 (ng/l)

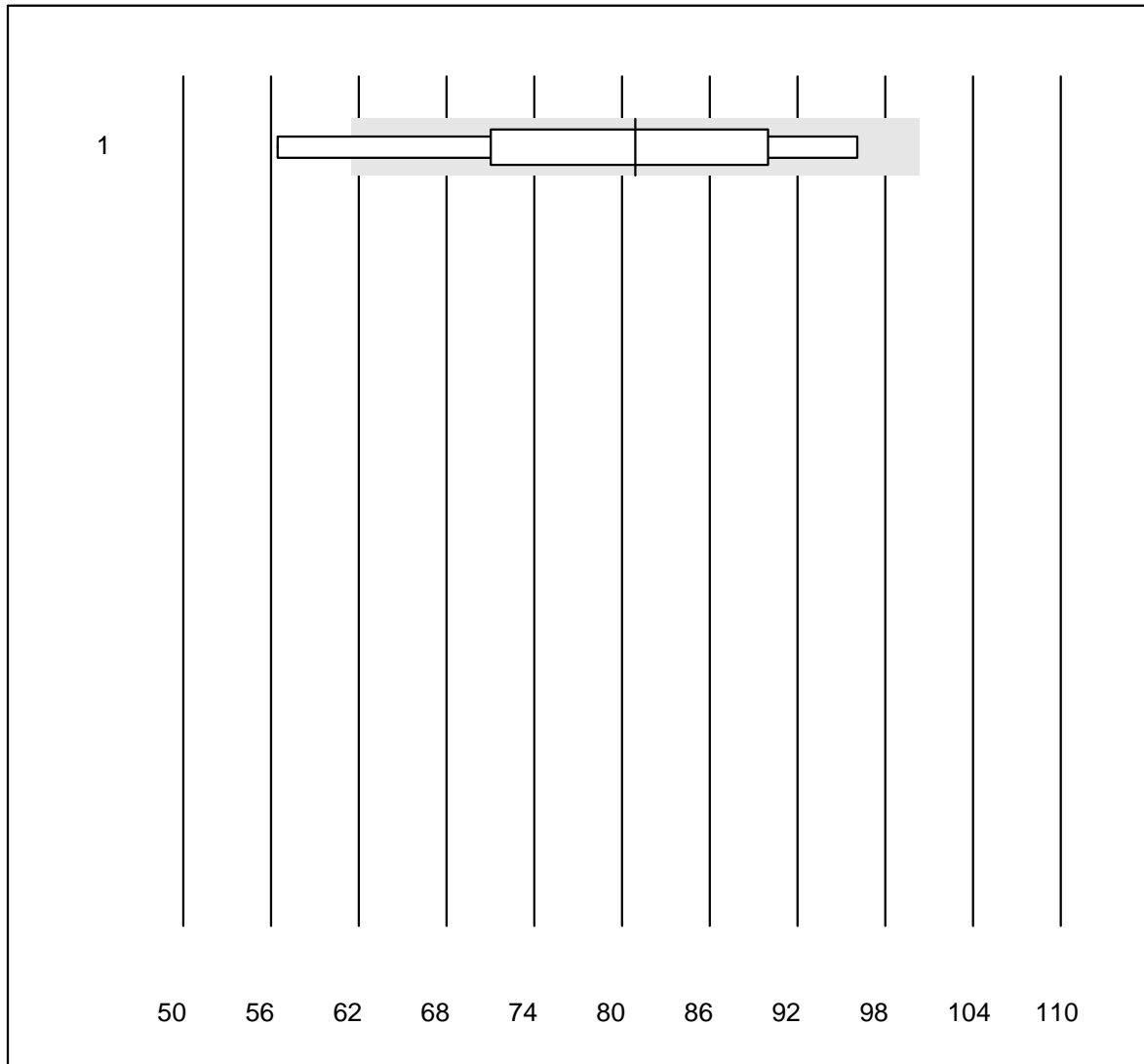
No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Cobas	4	100.0	0.0	0.0	1.5	0.0	e

D-Dimere qn



No. Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1 Exdia TRF	5	60.0	0.0	40.0	0.76	8.8	a

Troponin I qn

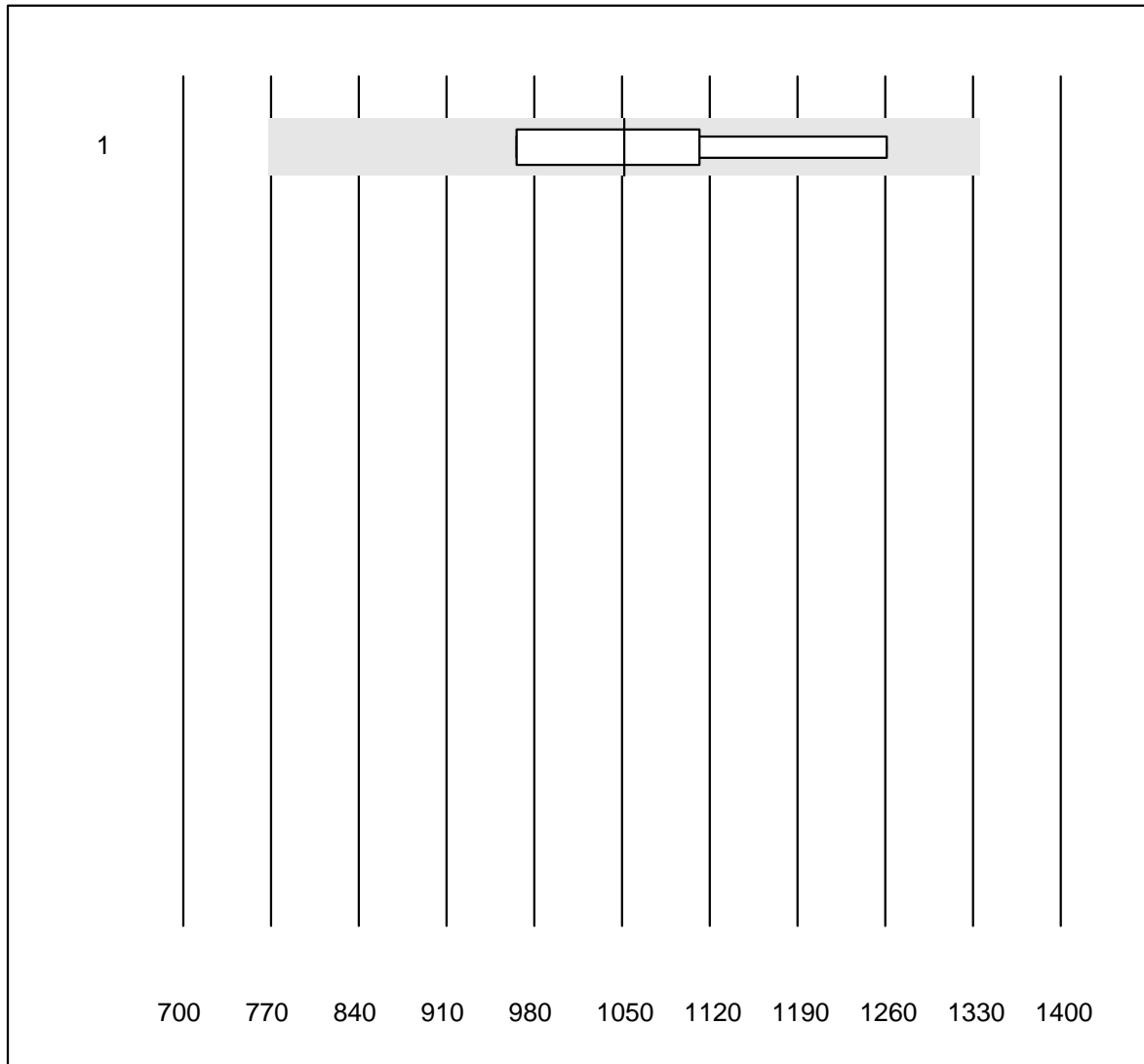


QUALAB tolerance : 0 %

Troponin I qn (ng/l)

No. Methode	Total	% OK	% insuff.	% outlier	Target	CV% Type
1 Exdia TRF	6	66.6	16.7	16.7	80.89	20.7 a

proBNP

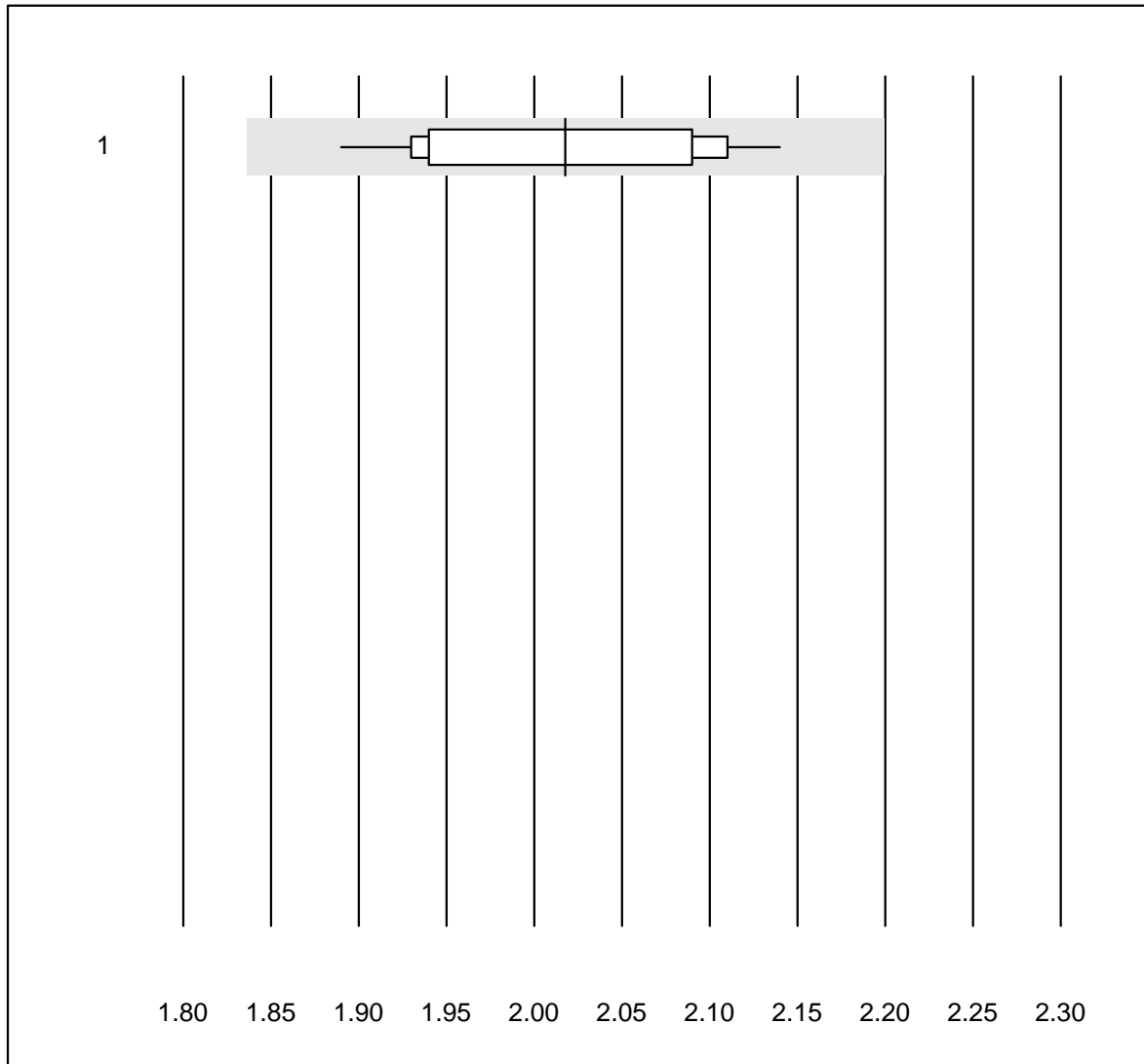


QUALAB tolerance : 0 %

proBNP (ng/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Excdia TRF	4	100.0	0.0	0.0	1052.0	12.4	a

Calcium-Urine

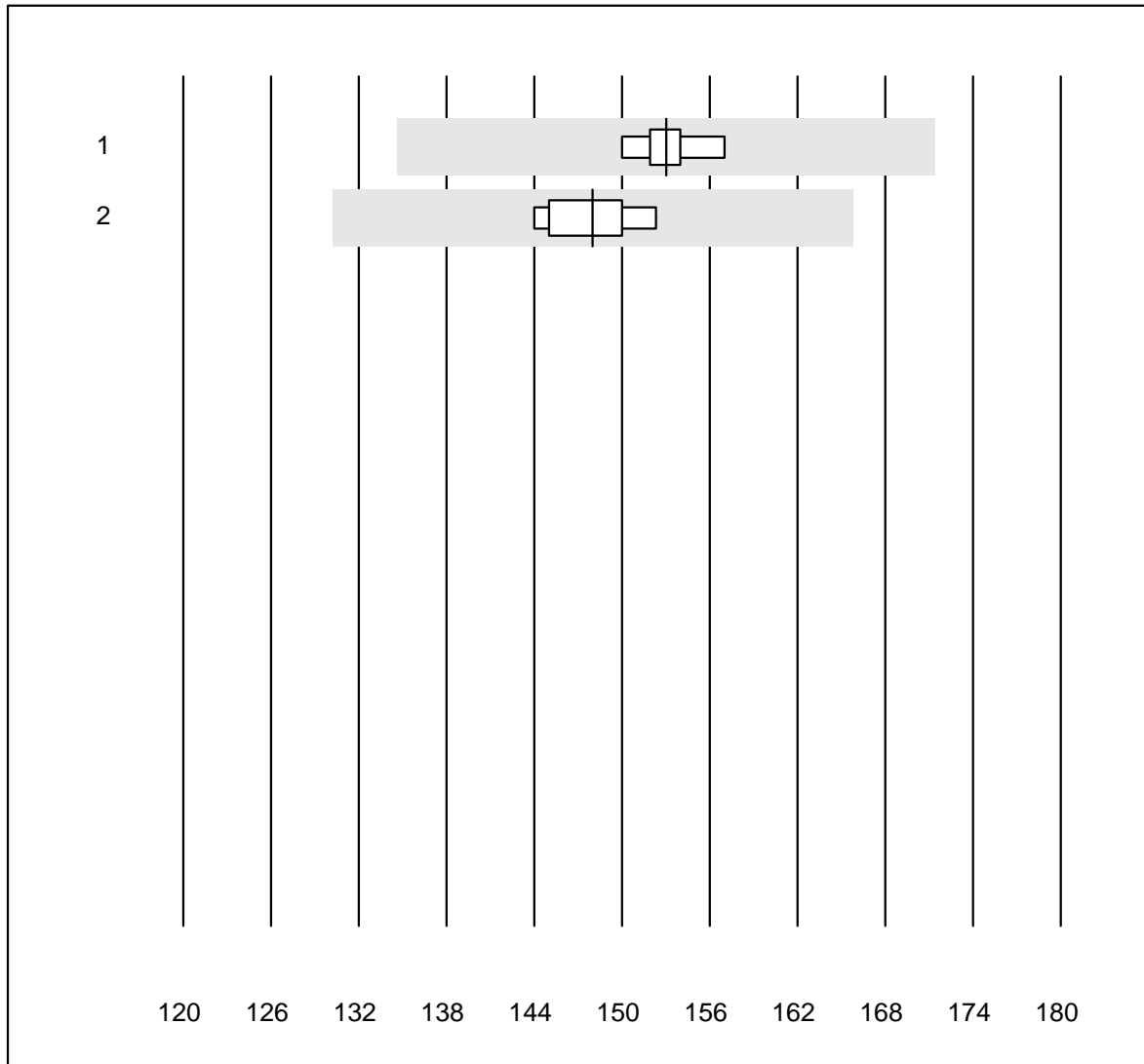


MQ tolerance : 9 %

Calcium-Urine (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	22	100.0	0.0	0.0	2.02	3.8	e

Chloride-Urine



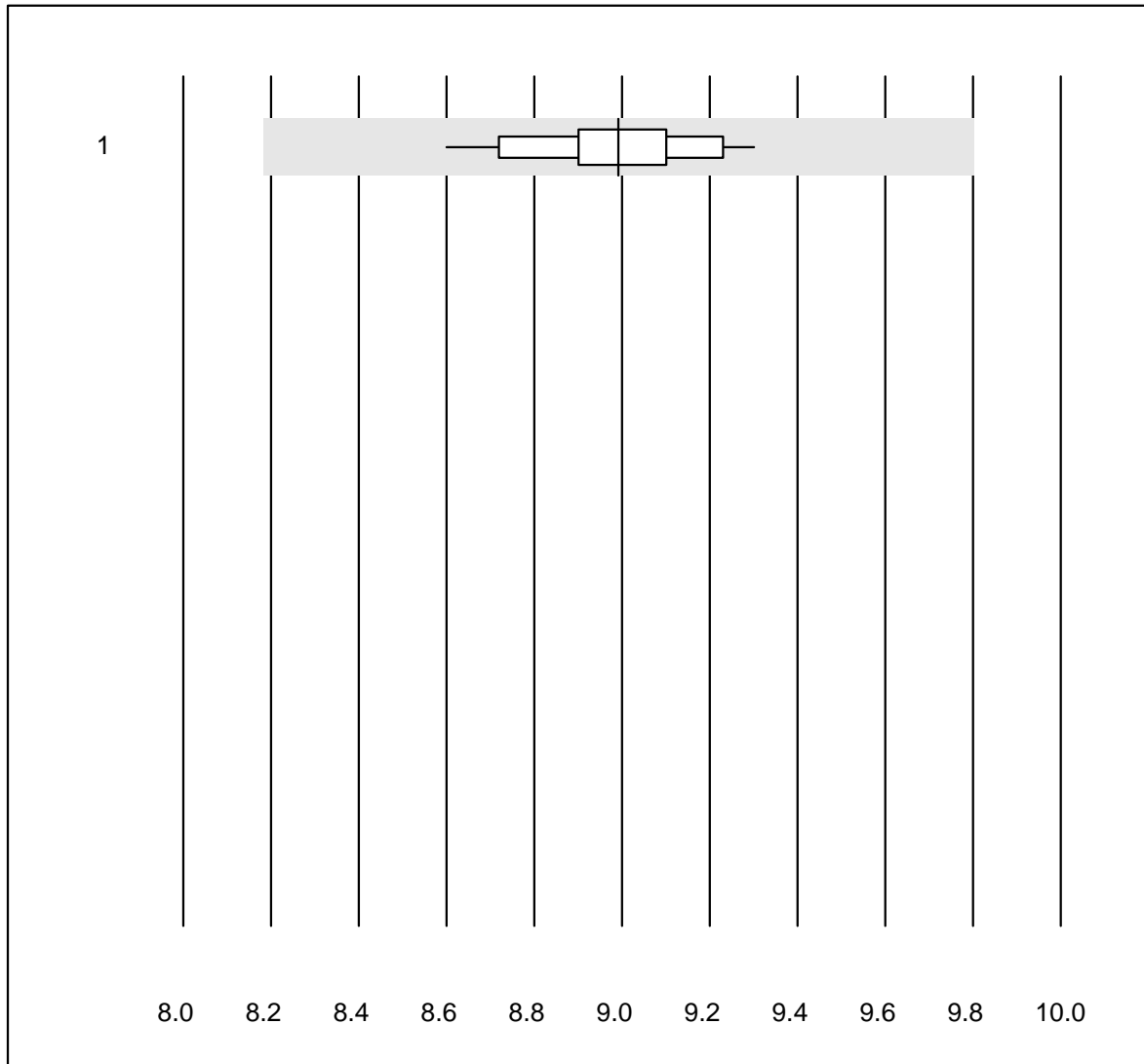
MQ tolerance : 12 %

Chloride-Urine (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	7	100.0	0.0	0.0	153	1.4	e
2	Cobas	9	100.0	0.0	0.0	148	2.2	e

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

Glucose-Urine

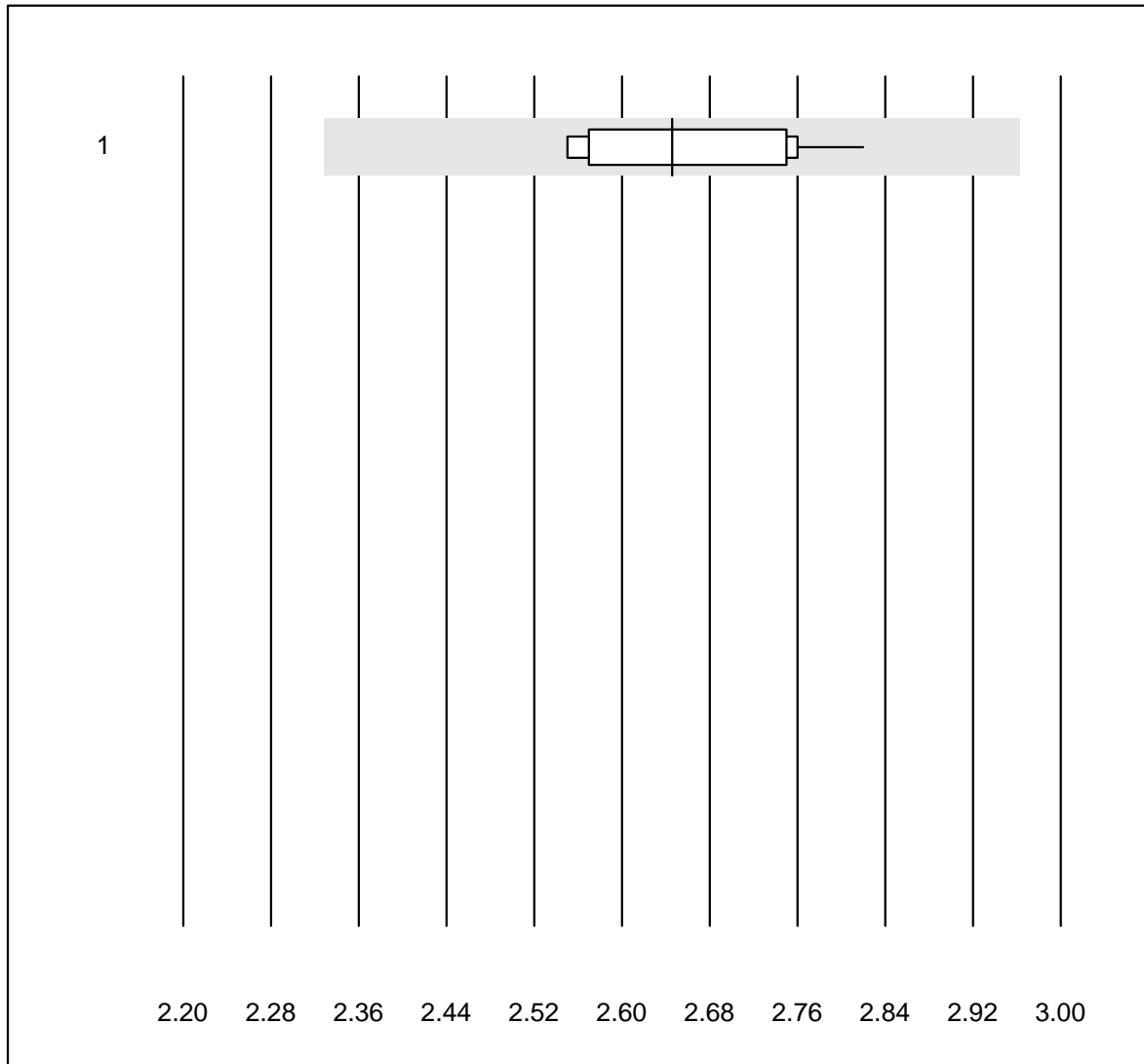


QUALAB tolerance : 9 %

Glucose-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	17	100.0	0.0	0.0	9.0	1.9	e

Magnesium-Urine



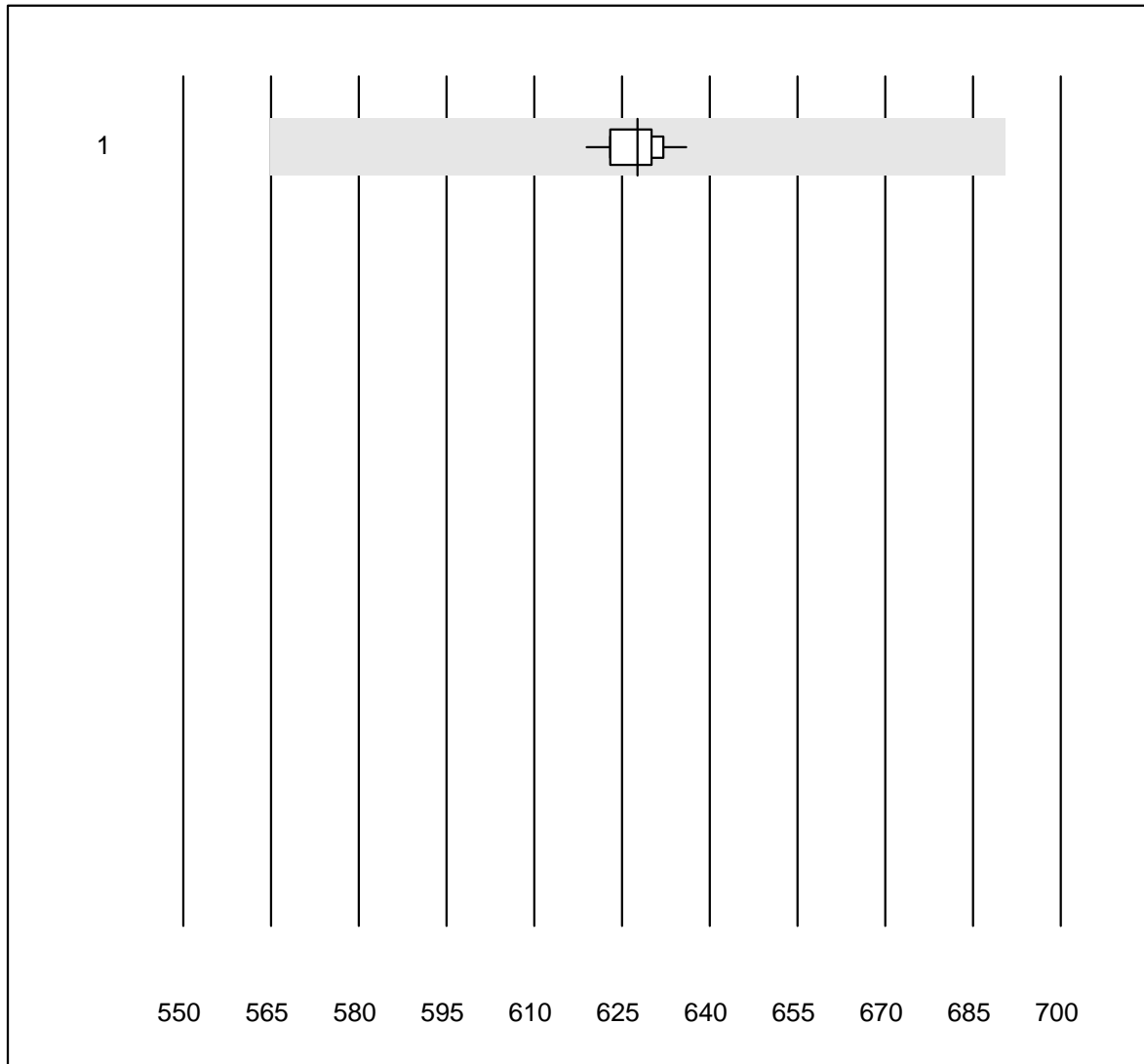
MQ tolerance : 12 %

Magnesium-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	11	100.0	0.0	0.0	2.65	3.7	e

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

Osmolality-Urine

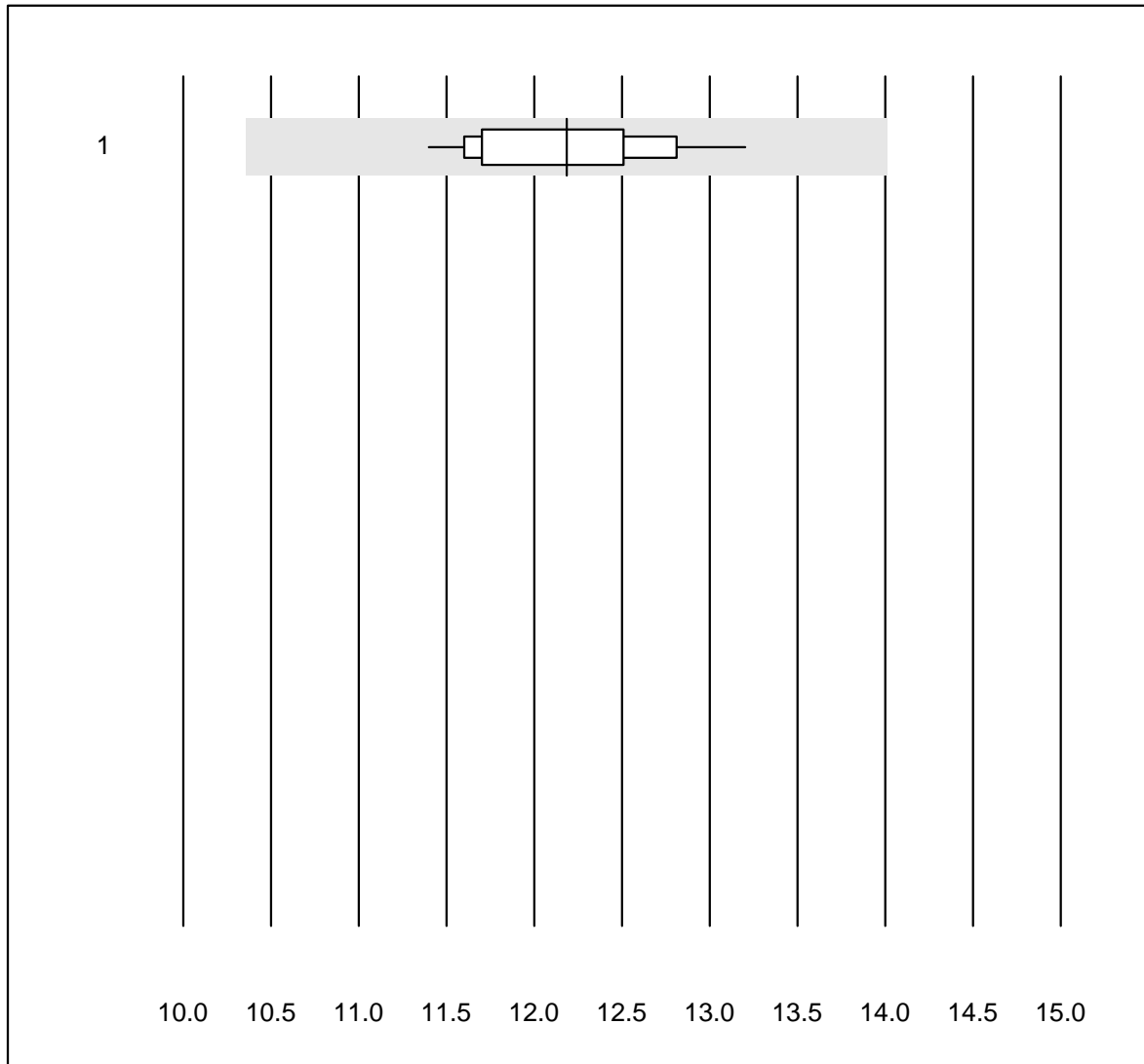


MQ tolerance : 10 %

Osmolality-Urine (mosm/kg)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cryoscopy	16	100.0	0.0	0.0	628	0.7	e

Phosphate-Urine

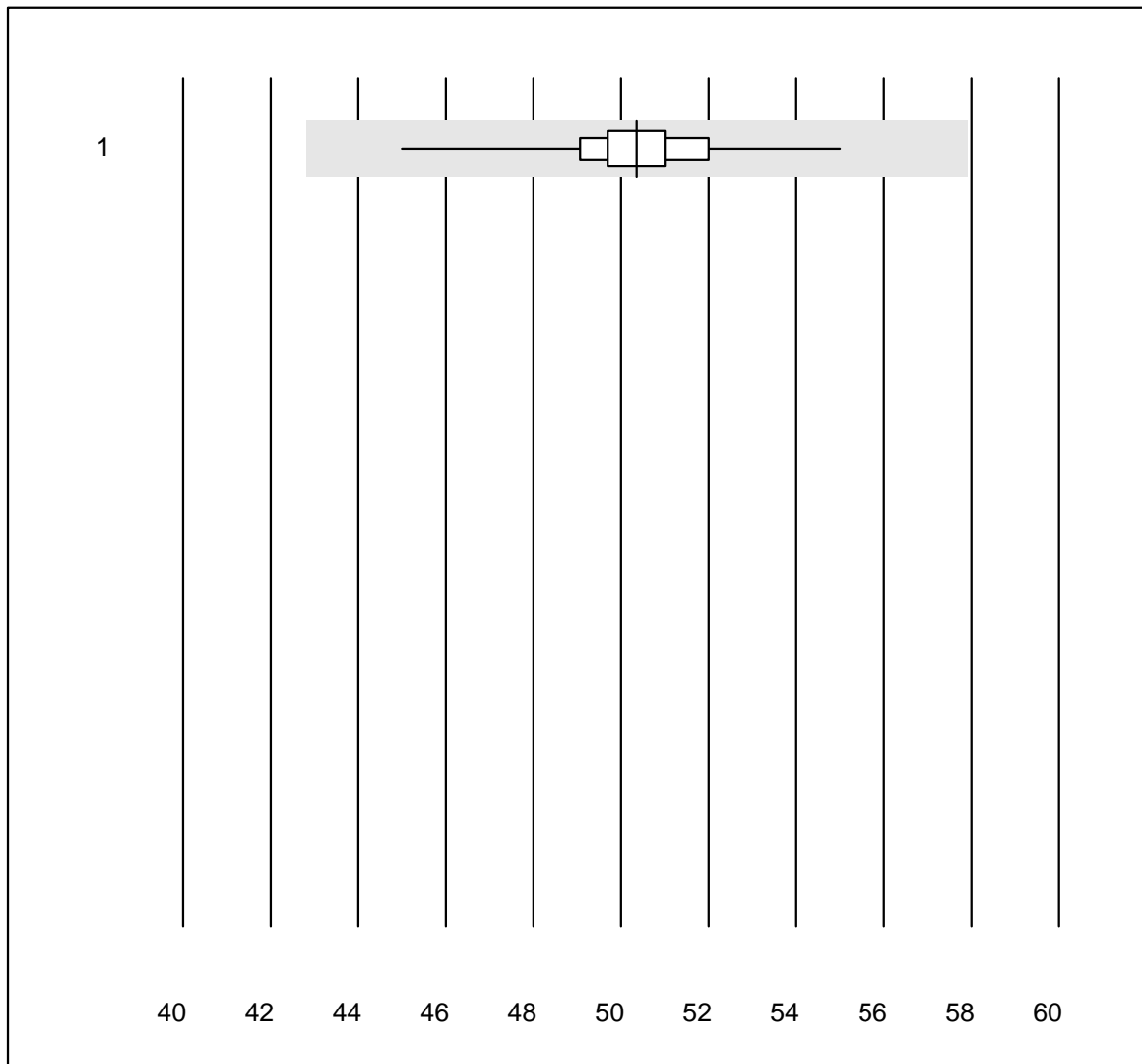


MQ tolerance : 15 %

Phosphate-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	19	100.0	0.0	0.0	12.2	4.1	e

Potassium-Urine

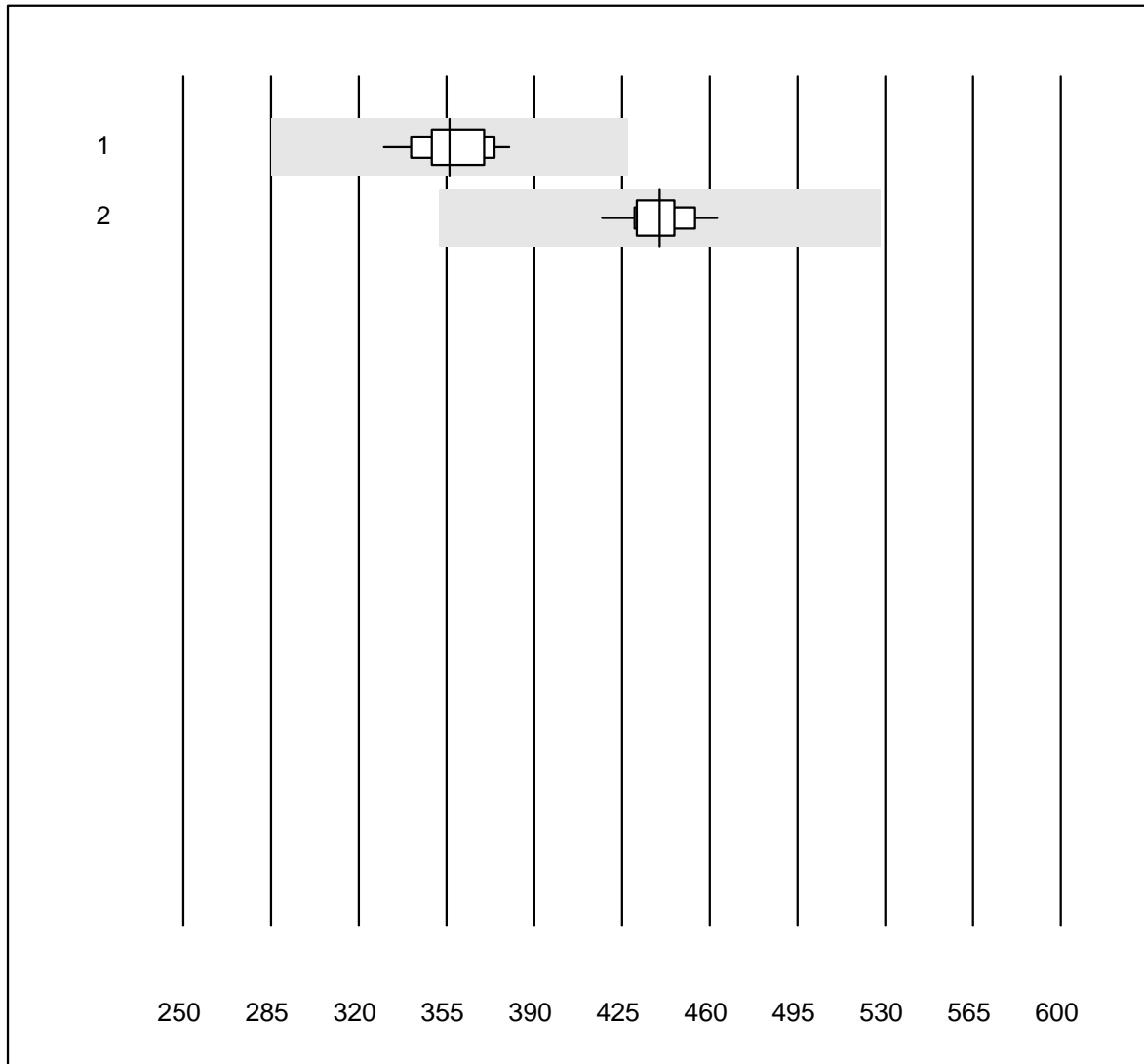


MQ tolerance : 15 %

Potassium-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	28	100.0	0.0	0.0	50	3.2	e

Protein-Urine



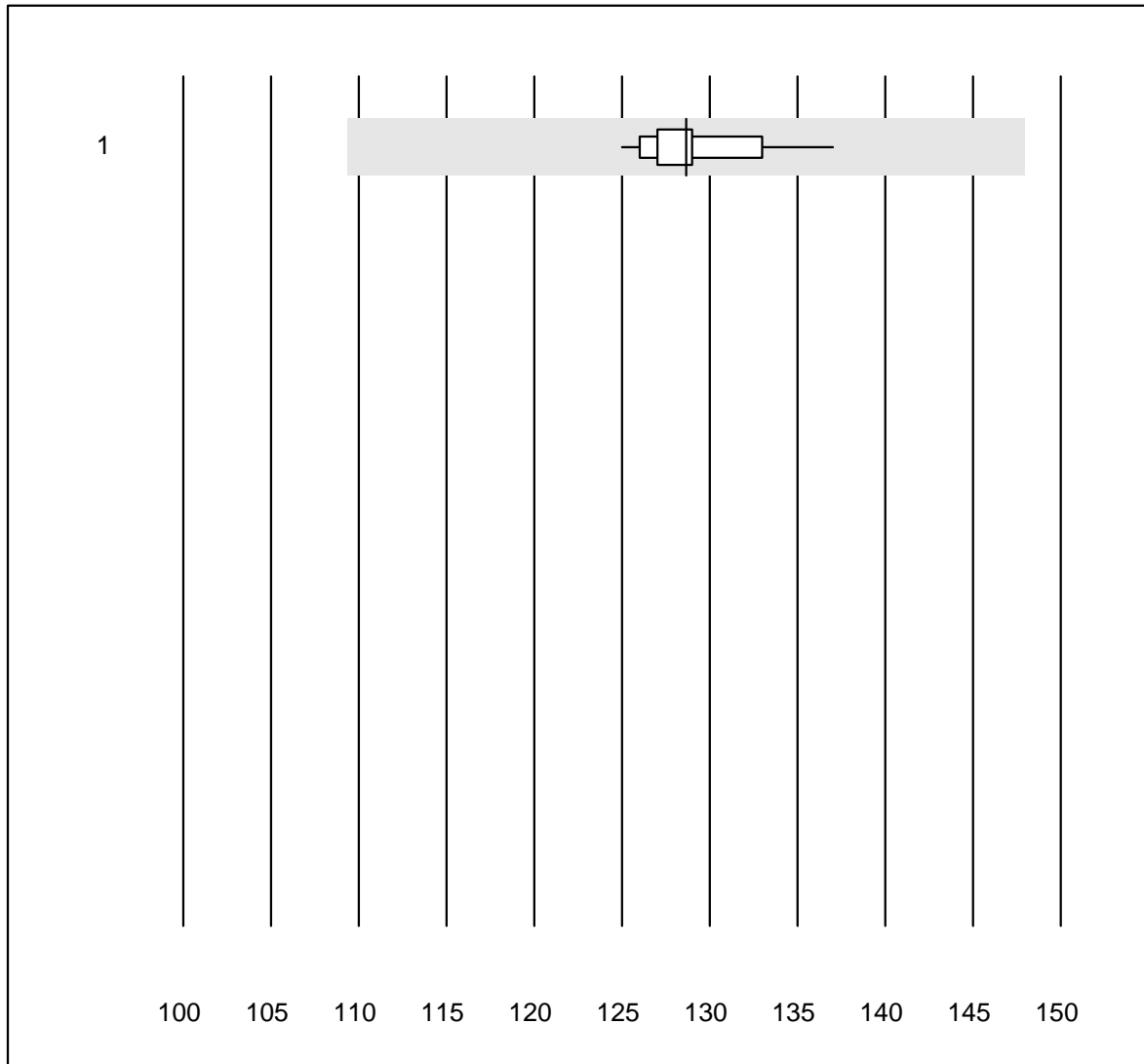
QUALAB tolerance : 20 %

Protein-Urine (mg/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Cobas/Roche	15	100.0	0.0	0.0	356.1	3.7	e
2	Standard chemistry	12	100.0	0.0	0.0	440.1	2.7	e

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

Sodium-Urine

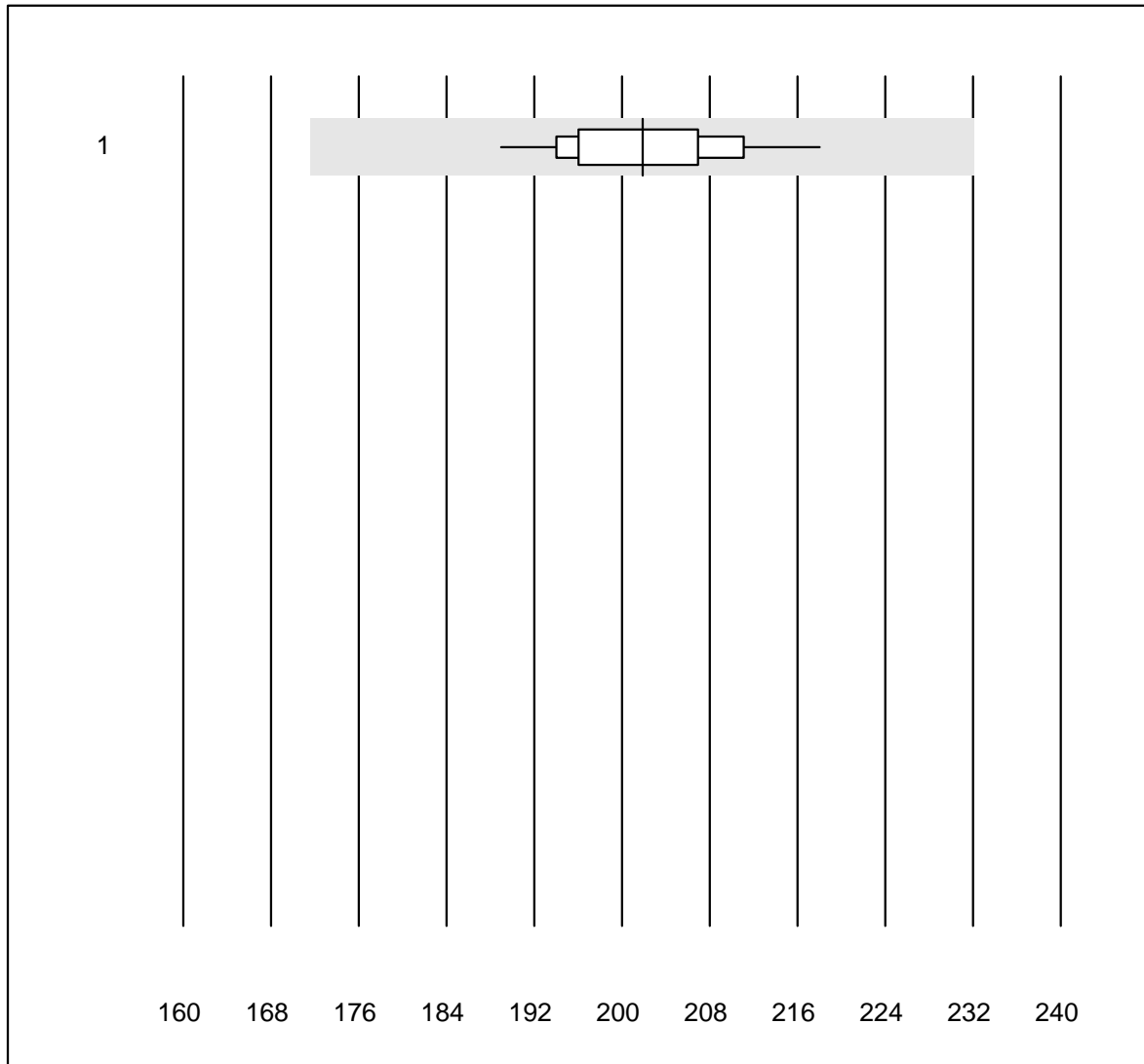


MQ tolerance : 15 %

Sodium-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	all Participants	28	100.0	0.0	0.0	129	2.3	e

Urea-Urine

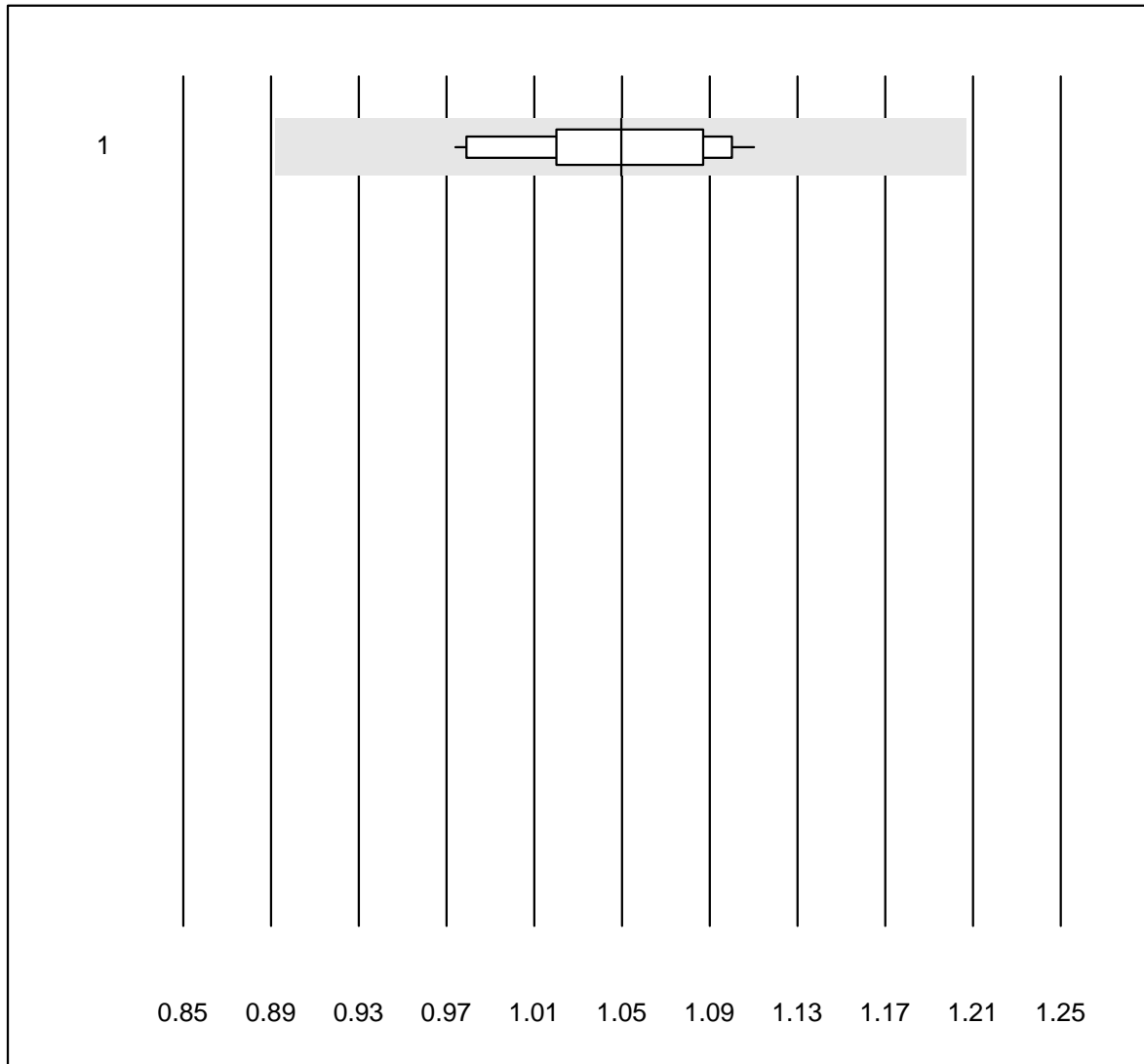


MQ tolerance : 15 %

Urea-Urine (mmol/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	25	100.0	0.0	0.0	202	3.7	e

Uric Acid-Urine

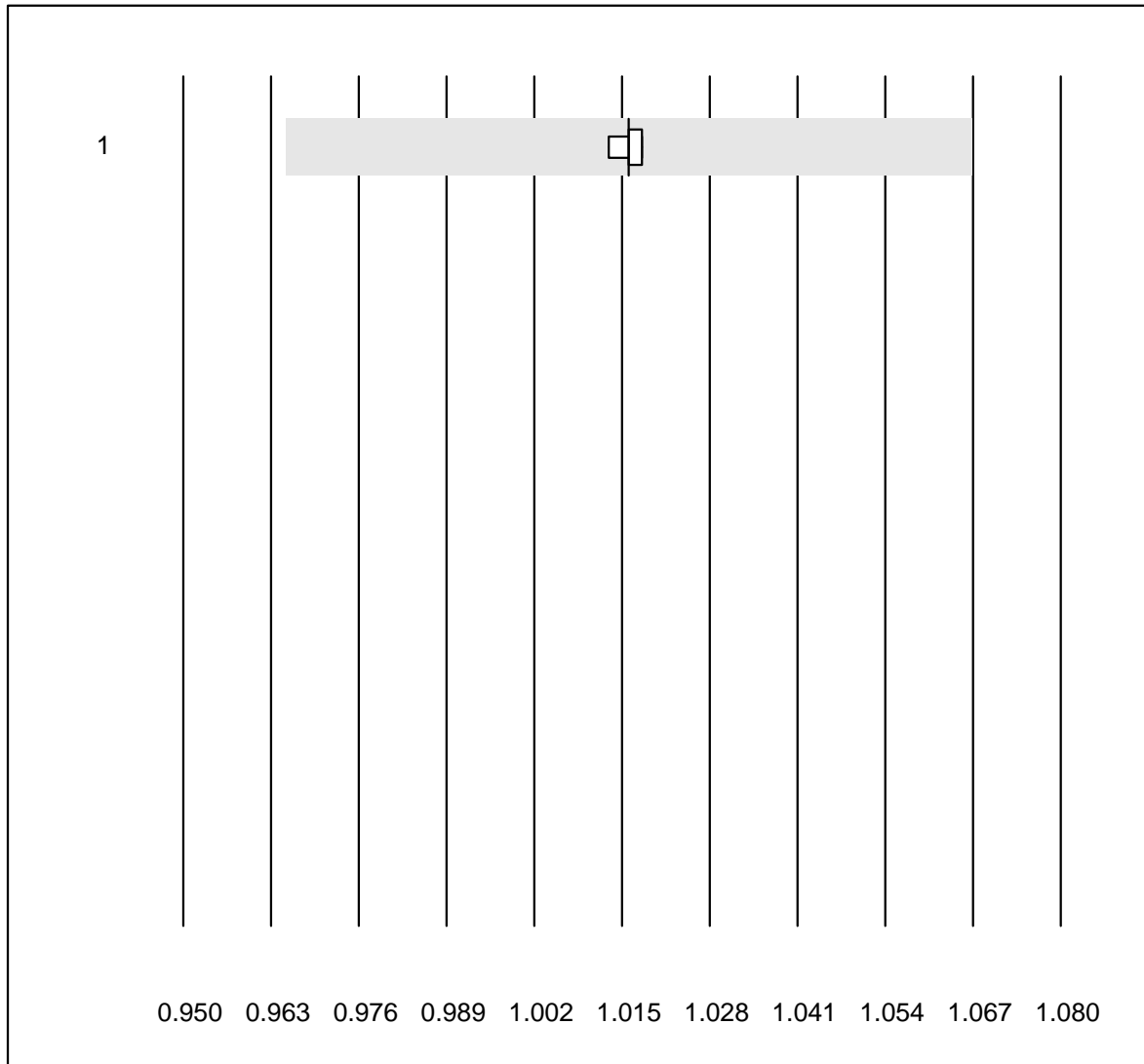


MQ tolerance : 15 %

Uric Acid-Urine (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Standard chemistry	18	100.0	0.0	0.0	1.05	3.9	e

Specific Gravity-Urine

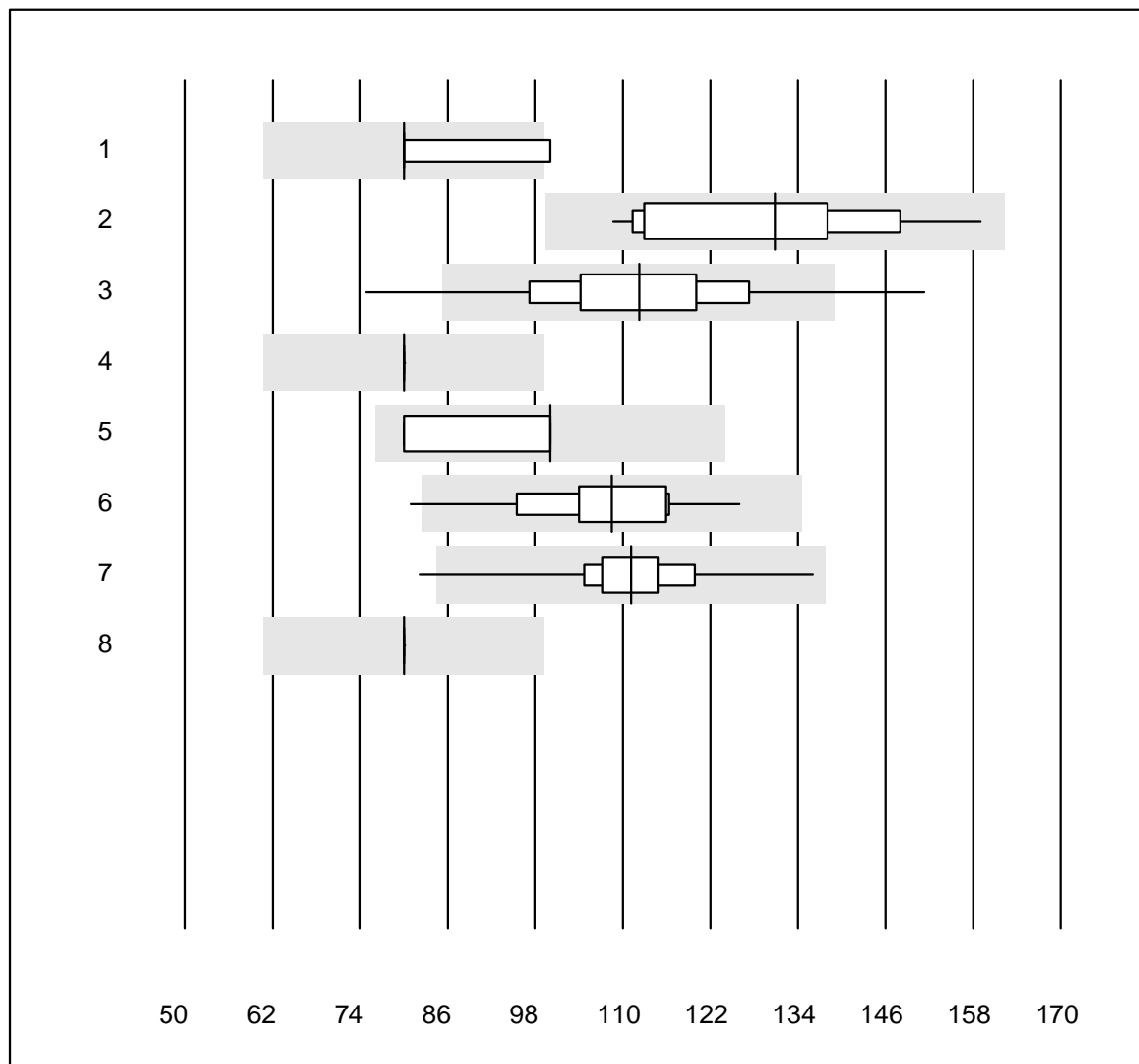


MQ tolerance : 5 %

Specific Gravity-Urine ()

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Refractometer	5	100.0	0.0	0.0	1.016	0.2	e

Creatinine U

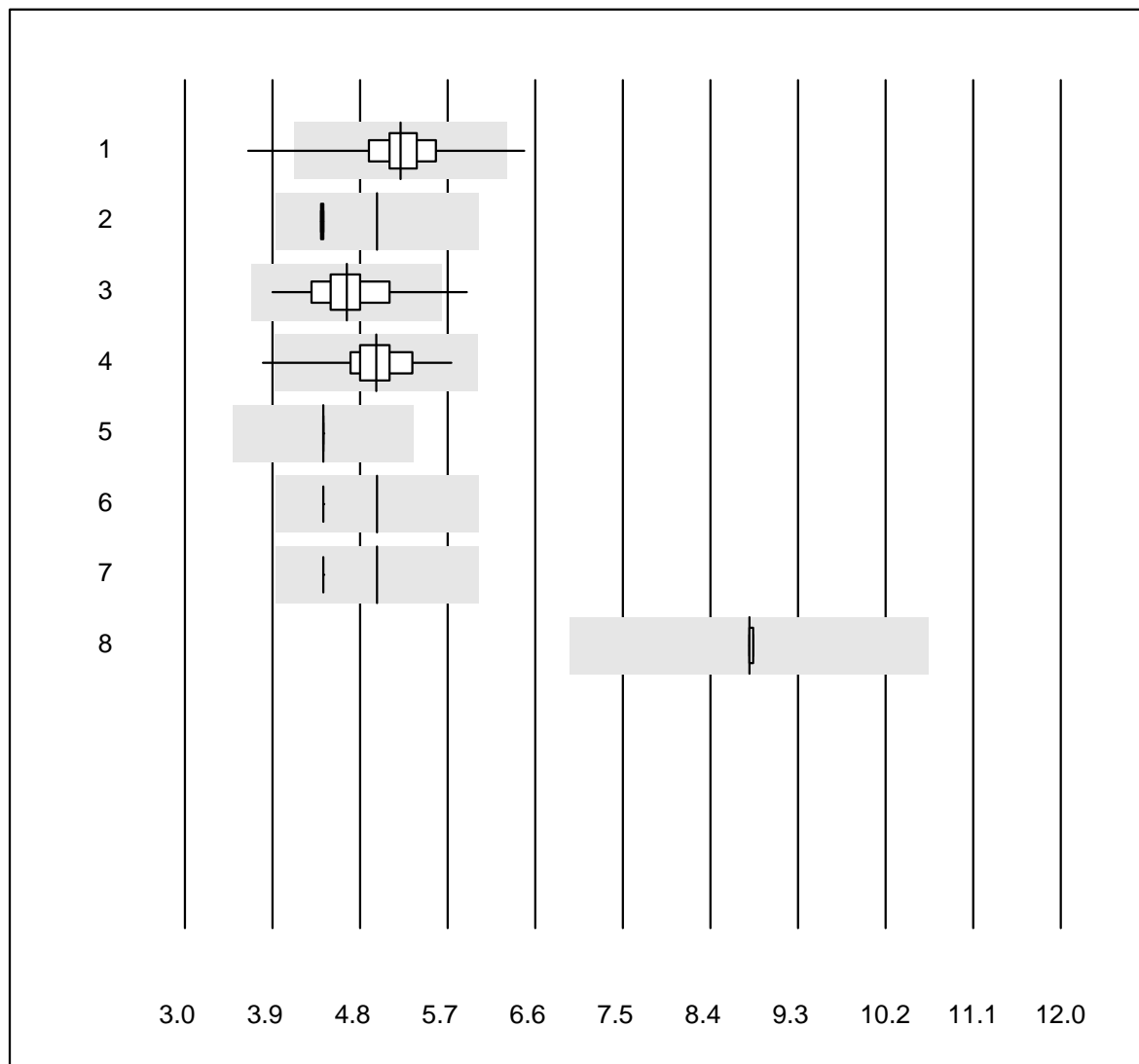


QUALAB tolerance : 24 %

Creatinine U (mg/l)

No.	Method	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	Aution	4	75.0	25.0	0.0	80.0	11.8	e*
2	AFIAS	13	92.3	0.0	7.7	130.8	12.0	e*
3	Afinion	438	94.3	3.0	2.7	112.2	10.6	e
4	Sysmex U	18	44.4	0.0	55.6	80.0	0.0	a
5	Other methods	5	80.0	0.0	20.0	100.0	10.5	a
6	Turbidimetry	34	97.1	2.9	0.0	108.4	8.5	e
7	DCA2000/Vantage	148	95.2	0.7	4.1	111.1	6.6	e
8	Siemens Clinitek	18	94.4	0.0	5.6	80.0	0.0	e

Creatinin Urin



QUALAB tolerance : 21 %

Creatinin Urin (mmol/l)

No.	Methode	Total	% OK	% insuff.	% outlier	Target	CV%	Type
1	DCA2000/Vantage	146	93.1	2.1	4.8	5.2	6.5	e
2	Siemens Clinitek	7	28.6	0.0	71.4	5.0	0.3	a
3	Afinion	438	97.5	0.2	2.3	4.7	6.3	e
4	Standard chemistry	44	97.7	2.3	0.0	5.0	6.7	e
5	Sysmex U	15	80.0	0.0	20.0	4.4	0.0	e
6	Aution	5	20.0	0.0	80.0	5.0	0.0	a
7	Siemens Clinitek	11	9.1	0.0	90.9	5.0	0.0	a
8	Other methods	5	60.0	0.0	40.0	8.8	0.3	e

One result was submitted but not published because the method group was too small. (<4 results per group)