

Verein für
Association pour le
Associazione per il



medizinische Qualitätskontrolle
contrôle de qualité médical
controllo di qualità medico

Survey Report

2015 - 4

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.

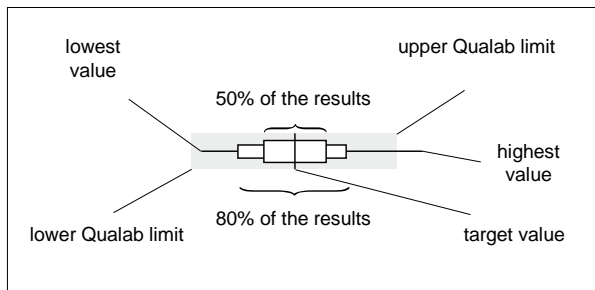
QUALAB and MQ tolerances

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:

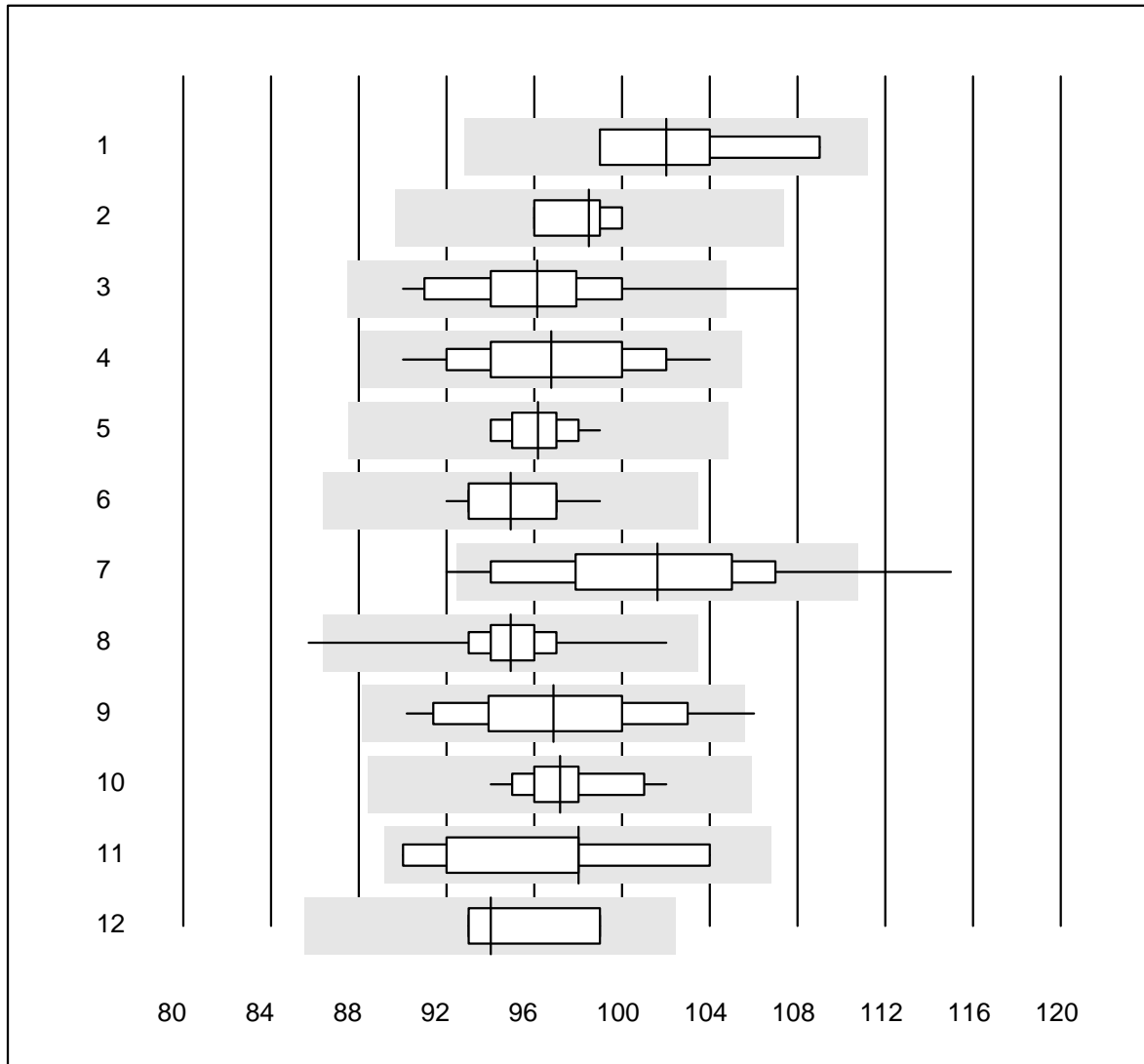
- The chemical control K1 is a ready-to-use commercial control serum. Even if the specimen is of human origin, it is possible that matrix effects occur. These are device-specific and result in different target values.
- Only one specimen was measured. Since the scatter of the results is dependent on 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, 1.12.2015

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

Hemoglobin

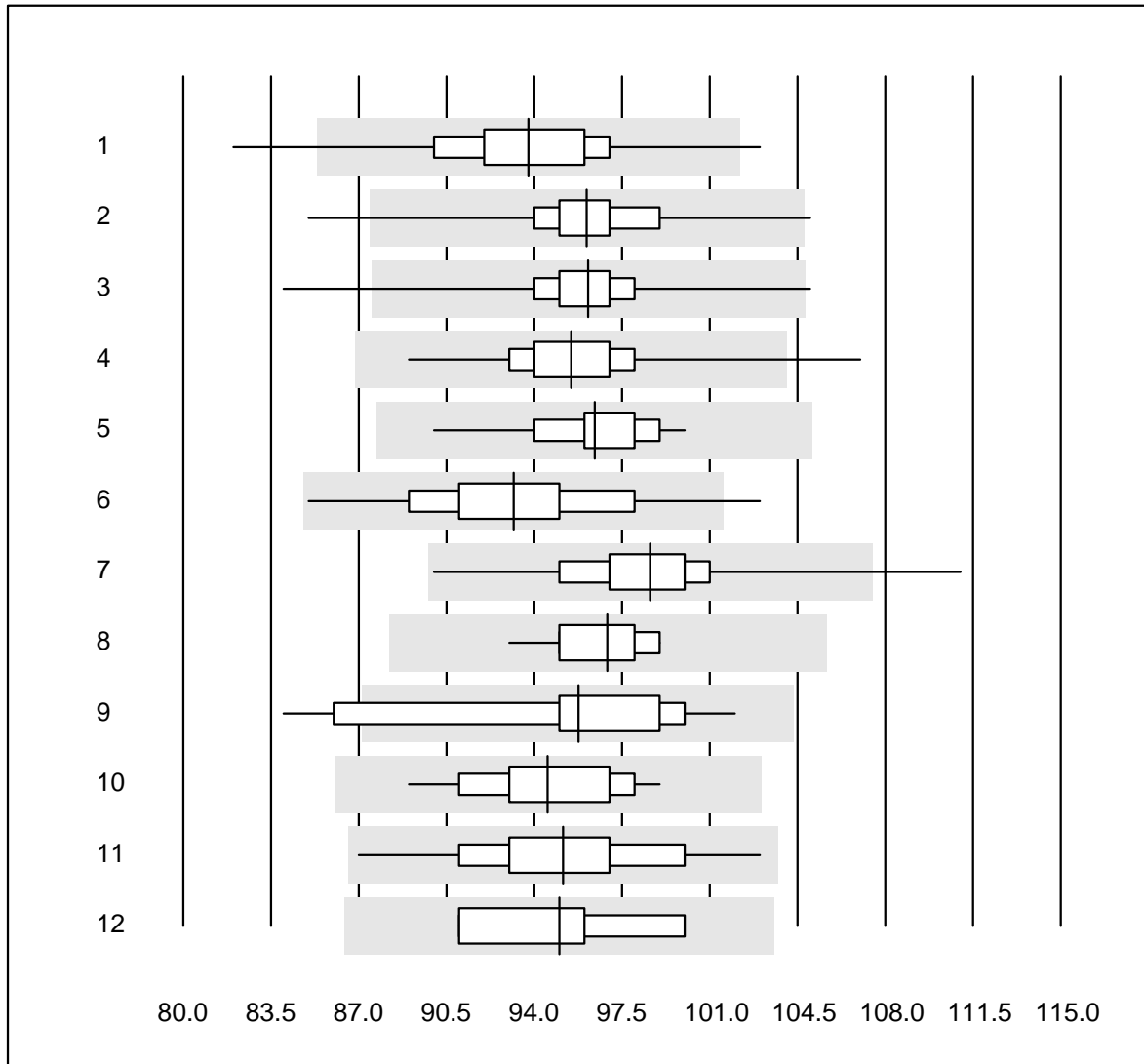


QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	DiaSpect	5	80.0	0.0	20.0	102.0	4.1	e*
2	Beckman	4	100.0	0.0	0.0	98.5	1.7	e
3	Automat	44	93.2	6.8	0.0	96.1	3.9	e
4	Cyanmethemoglobin	49	100.0	0.0	0.0	96.8	4.0	e
5	Sysmex XT/XE/XS	39	100.0	0.0	0.0	96.2	1.3	e
6	ABX Pentra	11	100.0	0.0	0.0	94.9	2.3	e
7	Reflotron	72	91.7	6.9	1.4	101.6	5.0	e
8	Hemocue	344	94.2	0.3	5.5	94.9	2.1	e
9	Dr. Lange	21	85.7	4.8	9.5	96.9	4.3	e
10	Hemocontrol	12	100.0	0.0	0.0	97.2	2.4	e
11	Eurolyser	6	100.0	0.0	0.0	98.0	5.2	e*
12	MS4	4	75.0	0.0	25.0	94.0	3.2	e*

Hemoglobin

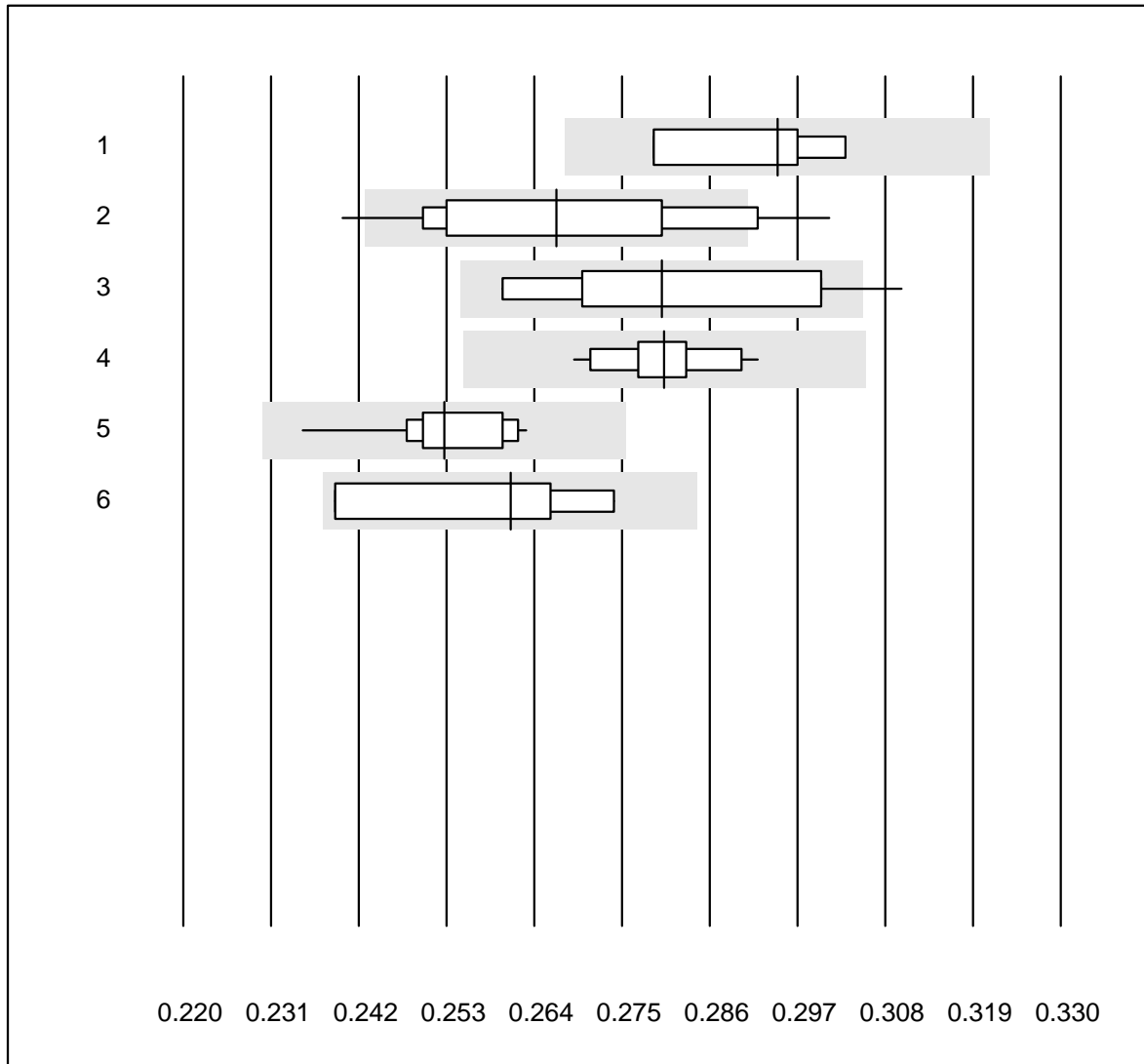


QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Micros	806	95.4	1.1	3.5	93.8	3.1	e
2	Microsemi	288	97.6	0.7	1.7	96.1	2.1	e
3	Sysmex KX21	421	95.7	1.2	3.1	96.2	1.9	e
4	Sysmex PochH - 100i	210	97.1	0.5	2.4	95.5	2.1	e
5	Sysmex XP 300	203	98.0	0.0	2.0	96.4	1.8	e
6	Mythic	245	98.0	0.4	1.6	93.2	3.7	e
7	Swelab	71	95.8	2.8	1.4	98.6	3.0	e
8	Abacus Junior	12	100.0	0.0	0.0	96.9	2.1	e
9	Medonic	16	87.5	12.5	0.0	95.8	5.0	e*
10	Nihon Kohden Celltac	40	87.5	0.0	12.5	94.5	2.8	e
11	Samsung HC10	45	100.0	0.0	0.0	95.2	3.6	e
12	Norma Icon 3	7	100.0	0.0	0.0	95.0	3.3	e*

Hematocrit

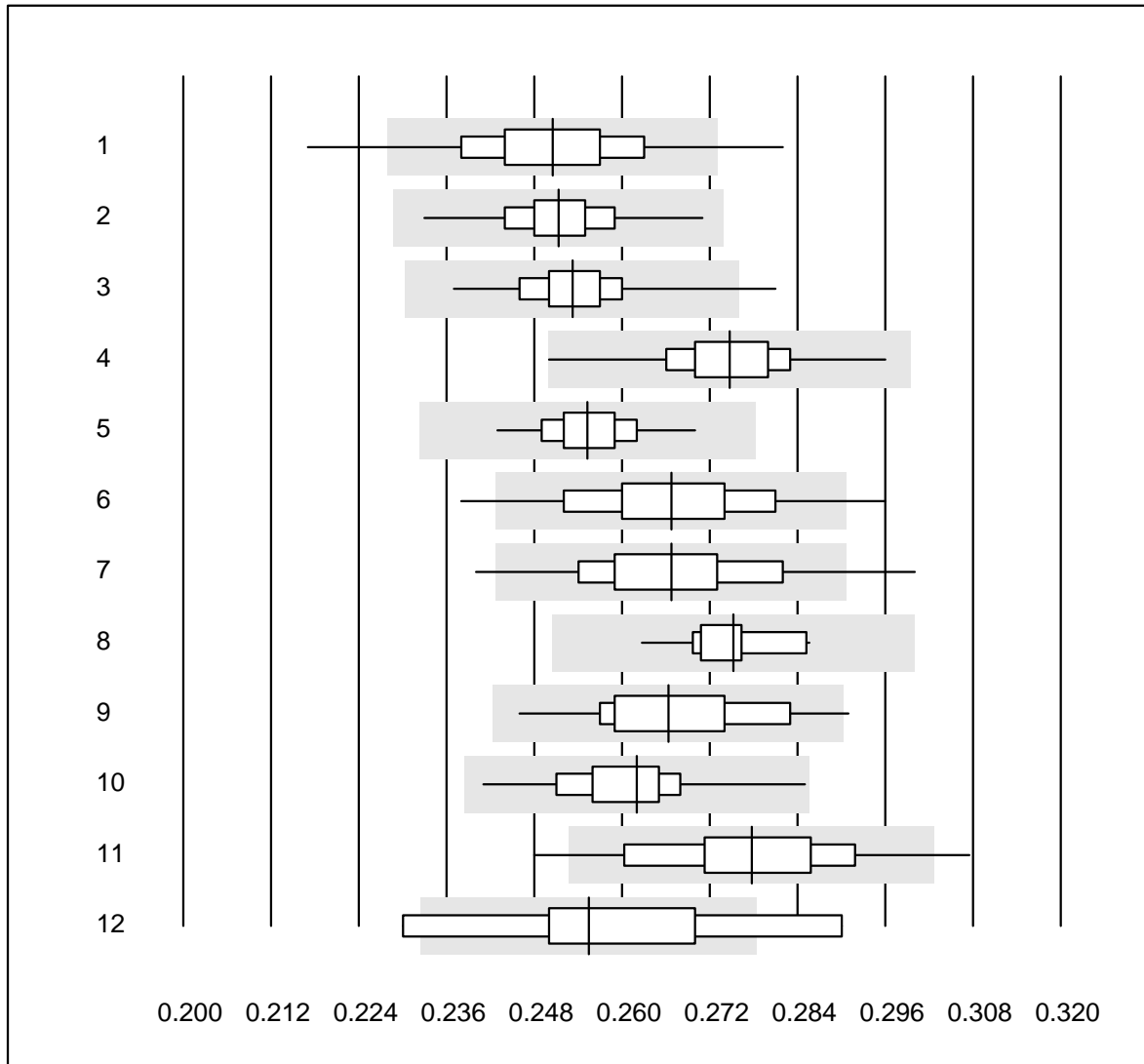


QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Beckman	4	100.0	0.0	0.0	0.29	3.5	e*
2	Automat	37	81.1	16.2	2.7	0.27	6.3	e
3	Centrifuge	13	69.2	7.7	23.1	0.28	6.5	e*
4	Sysmex XT/XE/XS	38	100.0	0.0	0.0	0.28	2.0	e
5	ABX Pentra	11	100.0	0.0	0.0	0.25	3.1	e
6	MS4	4	100.0	0.0	0.0	0.26	5.8	e*

Hematocrit

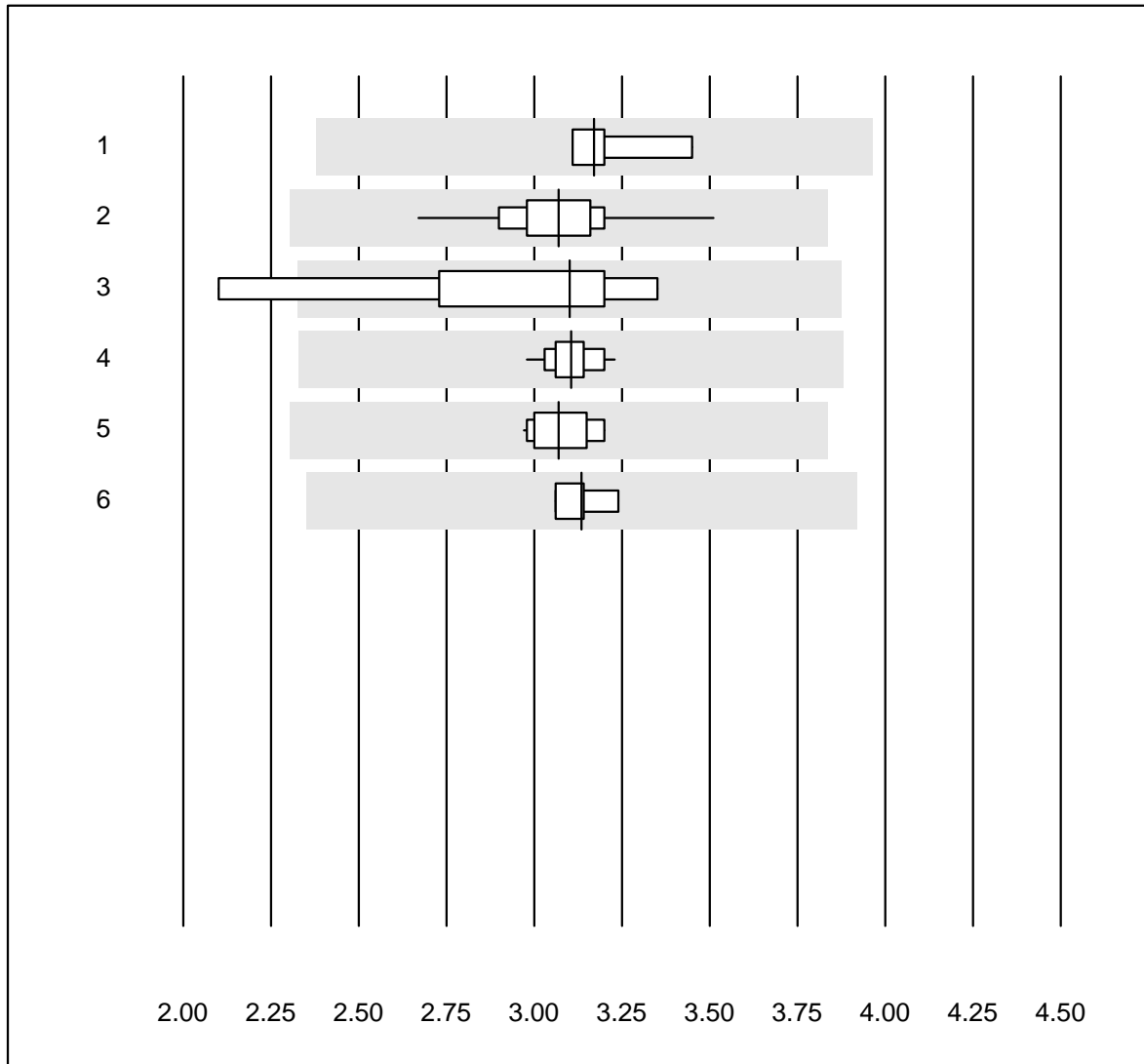


QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Micros	806	94.6	3.0	2.4	0.25	4.0	e
2	Microsemi	289	97.6	0.0	2.4	0.25	2.3	e
3	Sysmex KX21	422	96.7	0.5	2.8	0.25	2.3	e
4	Sysmex PochH - 100i	210	97.1	0.0	2.9	0.27	2.7	e
5	Sysmex XP 300	199	98.0	0.0	2.0	0.26	2.0	e
6	Mythic	245	96.8	2.0	1.2	0.27	4.1	e
7	Swelab	71	94.4	2.8	2.8	0.27	4.0	e
8	Abacus Junior	12	91.7	0.0	8.3	0.28	2.3	e
9	Medonic	16	93.7	6.3	0.0	0.27	4.3	e*
10	Nihon Kohden Celltac	40	85.0	0.0	15.0	0.26	3.1	e
11	Samsung HC10	45	93.3	6.7	0.0	0.28	4.3	e
12	Norma Icon 3	7	71.4	28.6	0.0	0.26	7.4	a

Erythrocytes

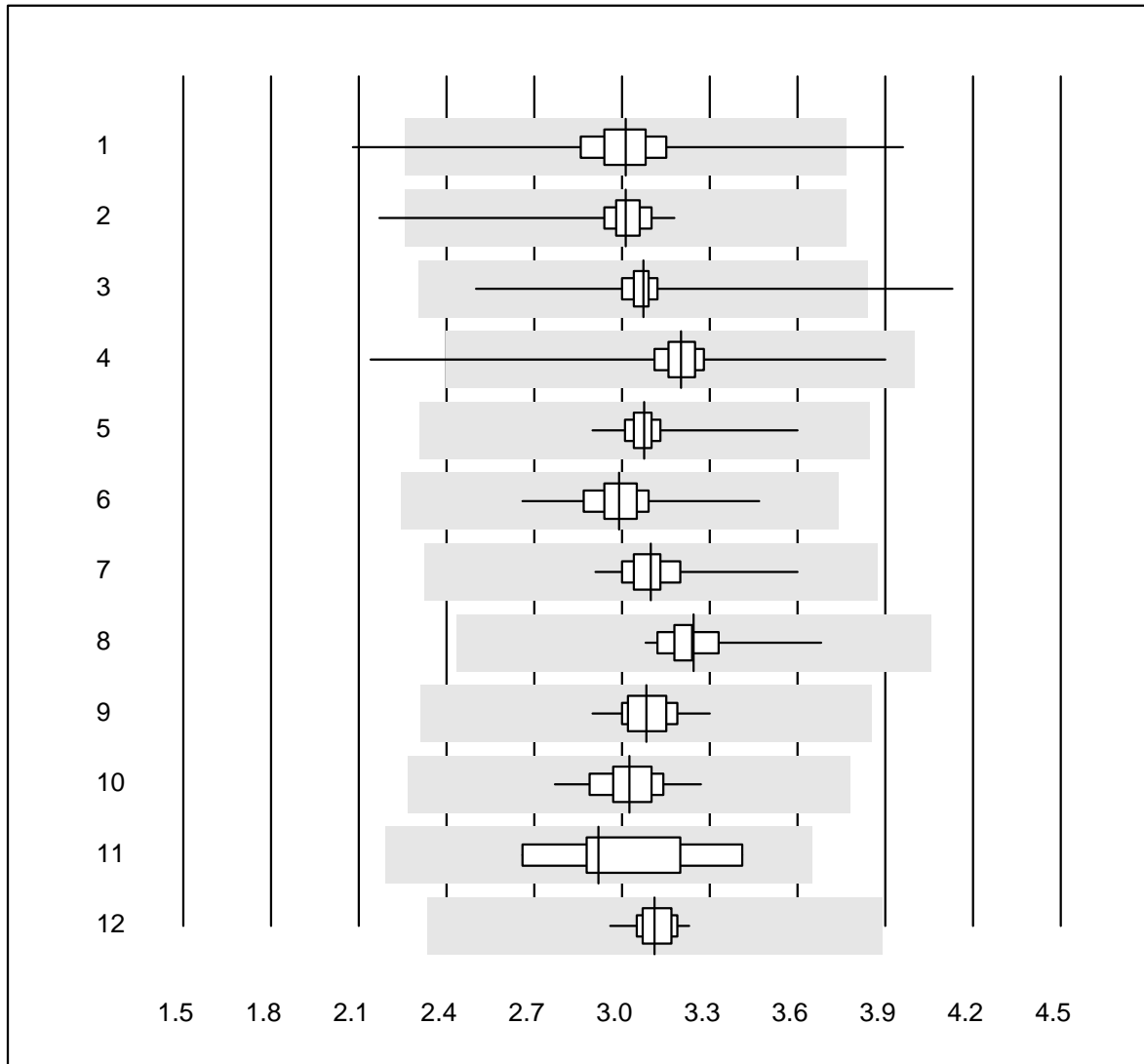


QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Beckman	4	100.0	0.0	0.0	3.17	4.8	e
2	Automat	35	100.0	0.0	0.0	3.07	4.8	e
3	Microscopic	9	88.9	11.1	0.0	3.10	13.3	e*
4	Sysmex XT/XE/XS	40	100.0	0.0	0.0	3.10	1.9	e
5	ABX Pentra	11	100.0	0.0	0.0	3.07	2.7	e
6	MS4	4	100.0	0.0	0.0	3.14	2.4	e

Erythrocytes

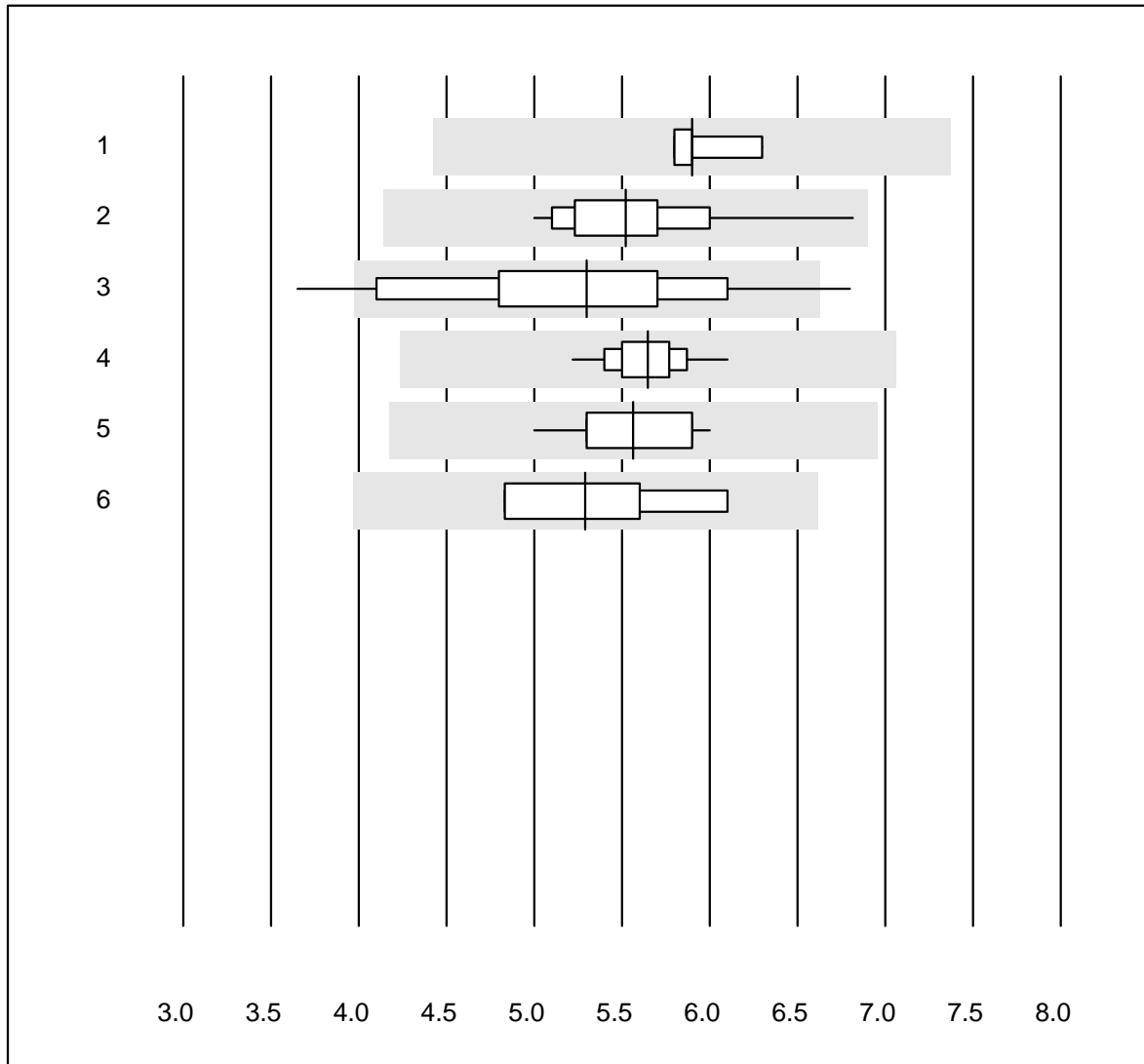


QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Micros	805	98.2	0.6	1.2	3.01	4.7	e
2	Microsemi	290	98.7	0.3	1.0	3.01	2.8	e
3	Sysmex KX21	422	97.8	0.5	1.7	3.07	3.2	e
4	Sysmex PochH - 100i	210	98.1	0.5	1.4	3.20	3.5	e
5	Sysmex XP 300	201	99.5	0.0	0.5	3.07	2.2	e
6	Mythic	245	99.2	0.0	0.8	2.99	3.3	e
7	Swelab	71	100.0	0.0	0.0	3.10	3.7	e
8	Abacus Junior	12	100.0	0.0	0.0	3.24	4.7	e
9	Medonic	16	100.0	0.0	0.0	3.08	3.2	e
10	Samsung HC10	45	100.0	0.0	0.0	3.03	3.4	e
11	Norma Icon 3	7	100.0	0.0	0.0	2.92	8.2	e*
12	Nihon Kohden Celltac	40	87.5	0.0	12.5	3.11	2.1	e

Leucocytes

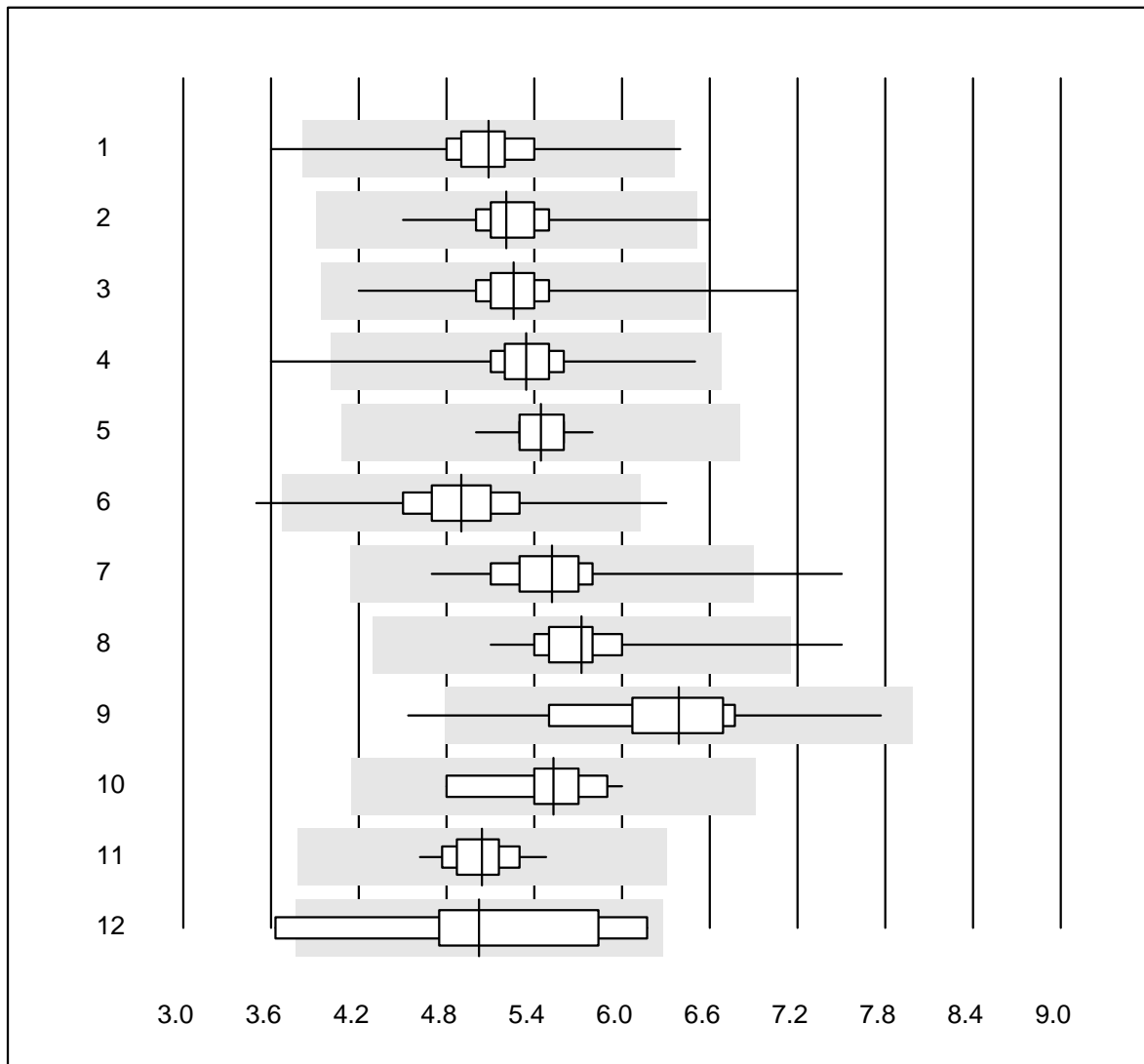


QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Beckman	4	100.0	0.0	0.0	5.90	3.7	e
2	Automat	33	100.0	0.0	0.0	5.52	7.1	e
3	Microscopic	54	87.0	9.3	3.7	5.30	14.4	e
4	Sysmex XT/XE/XS	39	100.0	0.0	0.0	5.65	3.4	e
5	ABX Pentra	11	100.0	0.0	0.0	5.56	5.6	e
6	MS4	4	100.0	0.0	0.0	5.29	10.9	e*

Leucocytes

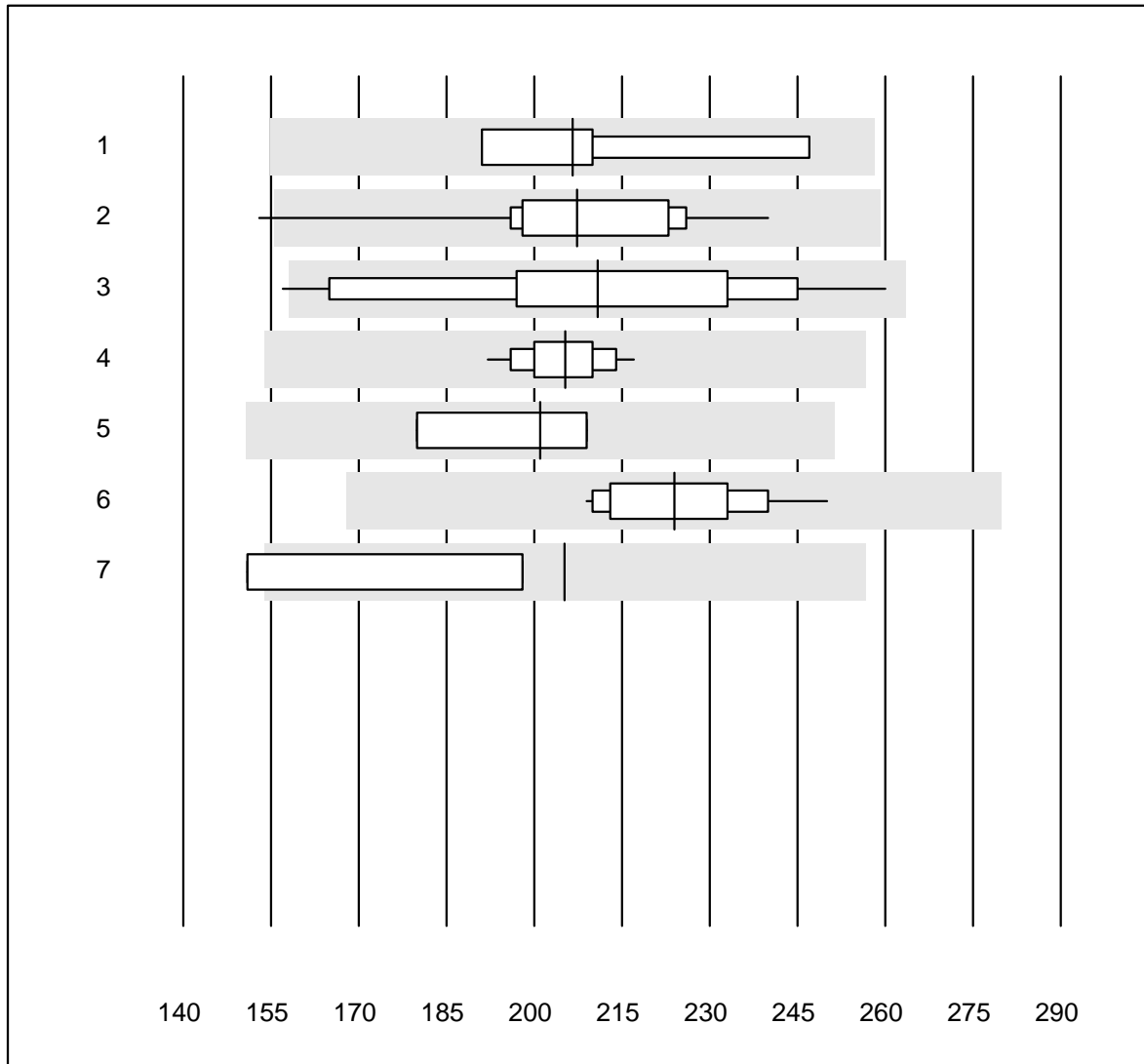


QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Micros	806	98.7	0.2	1.1	5.09	5.2	e
2	Microsemi	291	99.0	0.3	0.7	5.21	4.4	e
3	Sysmex KX21	422	99.1	0.2	0.7	5.26	4.1	e
4	Sysmex PochH - 100i	210	99.5	0.5	0.0	5.34	5.2	e
5	Sysmex XP 300	203	100.0	0.0	0.0	5.45	3.0	e
6	Mythic	244	97.6	0.8	1.6	4.90	7.2	e
7	Nihon Kohden Celltac	40	95.0	2.5	2.5	5.52	8.4	e
8	Swelab	71	98.6	1.4	0.0	5.73	5.9	e
9	Abacus Junior	12	91.7	8.3	0.0	6.39	12.2	e*
10	Medonic	16	100.0	0.0	0.0	5.53	6.1	e
11	Samsung HC10	45	100.0	0.0	0.0	5.04	4.0	e
12	Norma Icon 3	7	85.7	14.3	0.0	5.02	16.1	e*

Thrombocytes

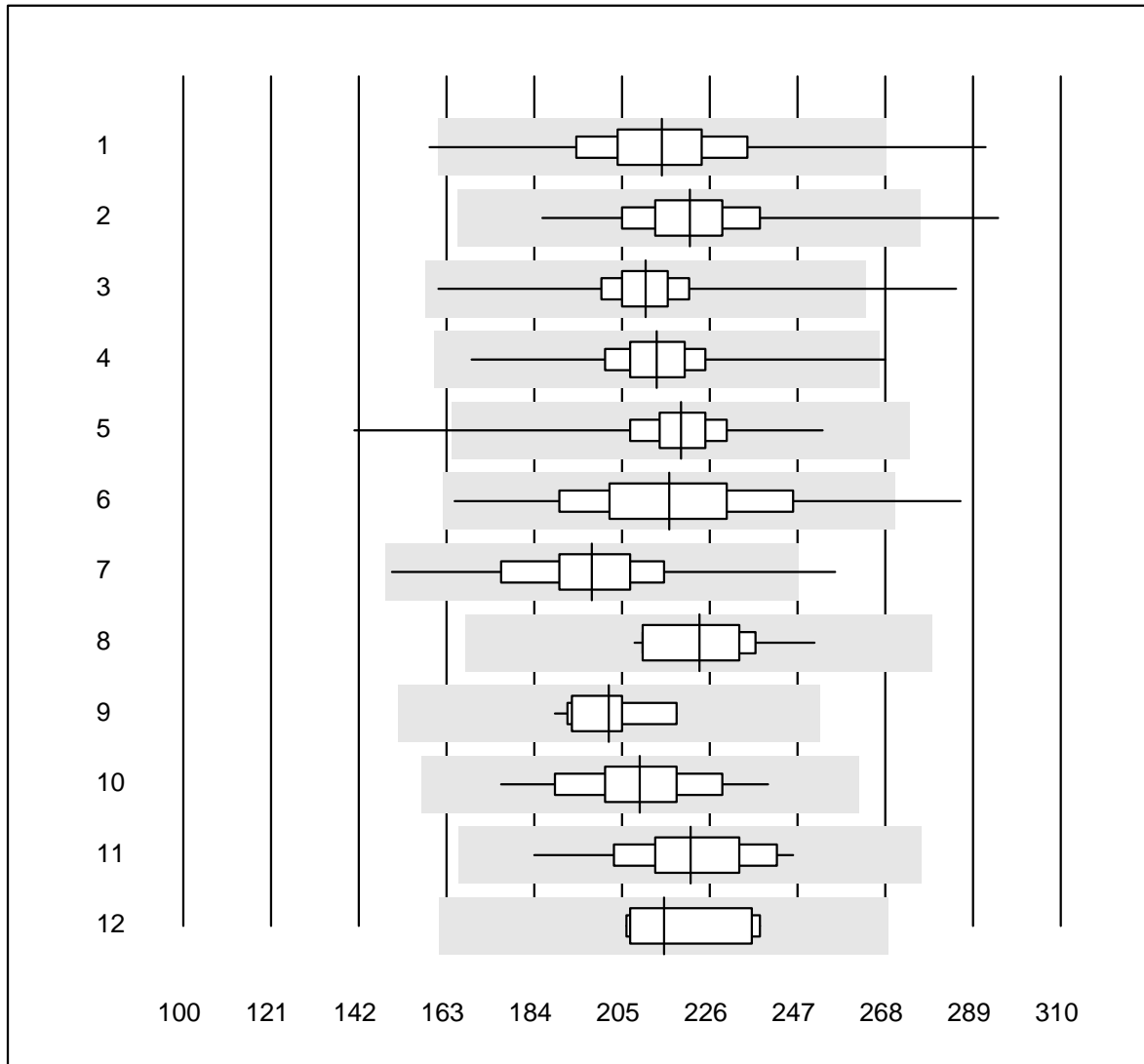


QUALAB tolerance : 25 %

Thrombocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Beckman	4	100.0	0.0	0.0	206.5	11.3	e*
2	Automat	31	96.8	3.2	0.0	207.3	9.2	e
3	Microscopic	32	90.6	3.1	6.3	210.8	13.5	e
4	Sysmex XT/XE/XS	39	100.0	0.0	0.0	205.3	3.2	e
5	Advia 120	4	100.0	0.0	0.0	201.0	7.1	e*
6	ABX Pentra	11	100.0	0.0	0.0	223.9	6.0	e
7	MS4	4	50.0	25.0	25.0	205.2	13.4	a

Thrombocytes

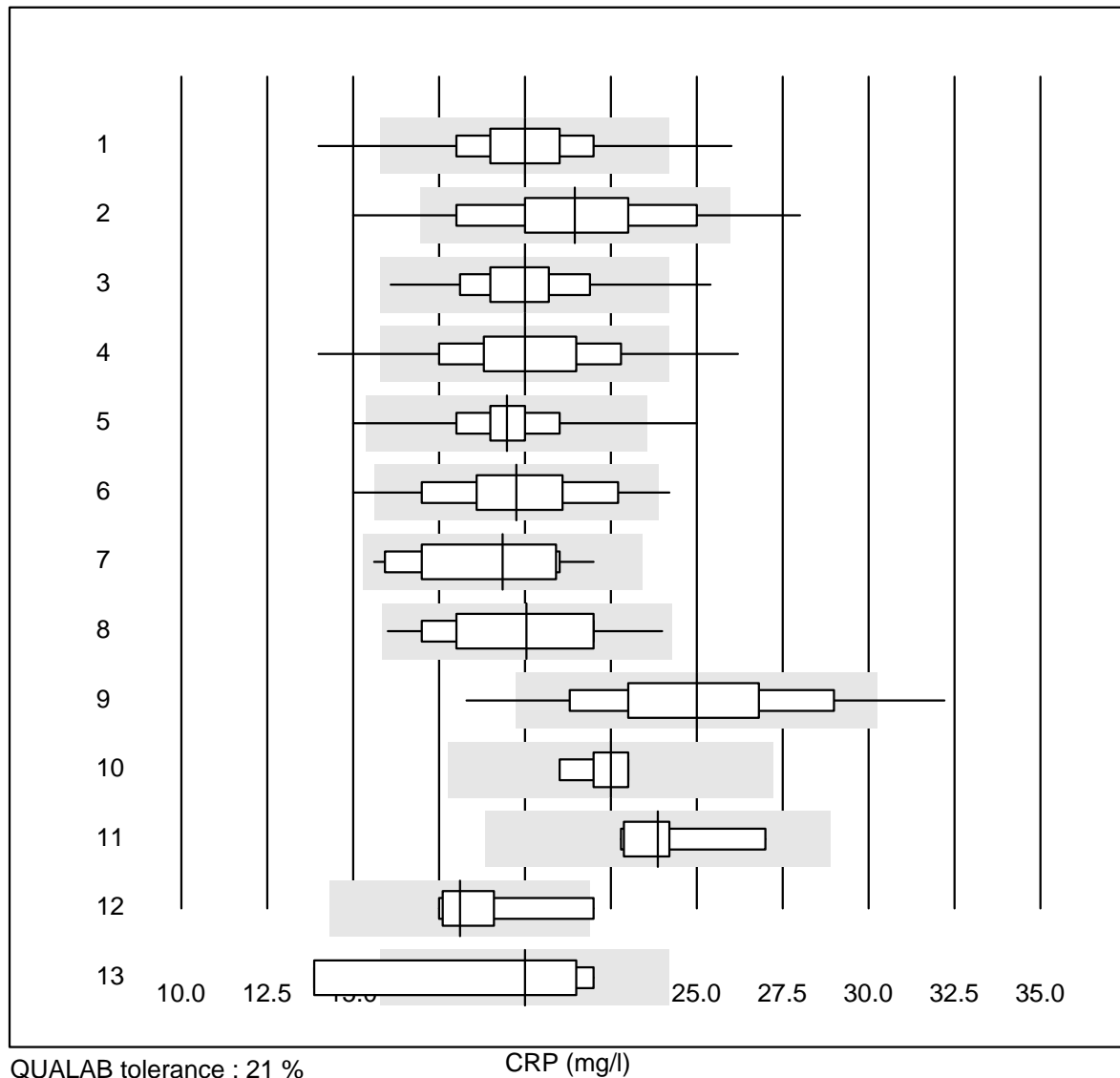


QUALAB tolerance : 25 %

Thrombocytes (G/l)

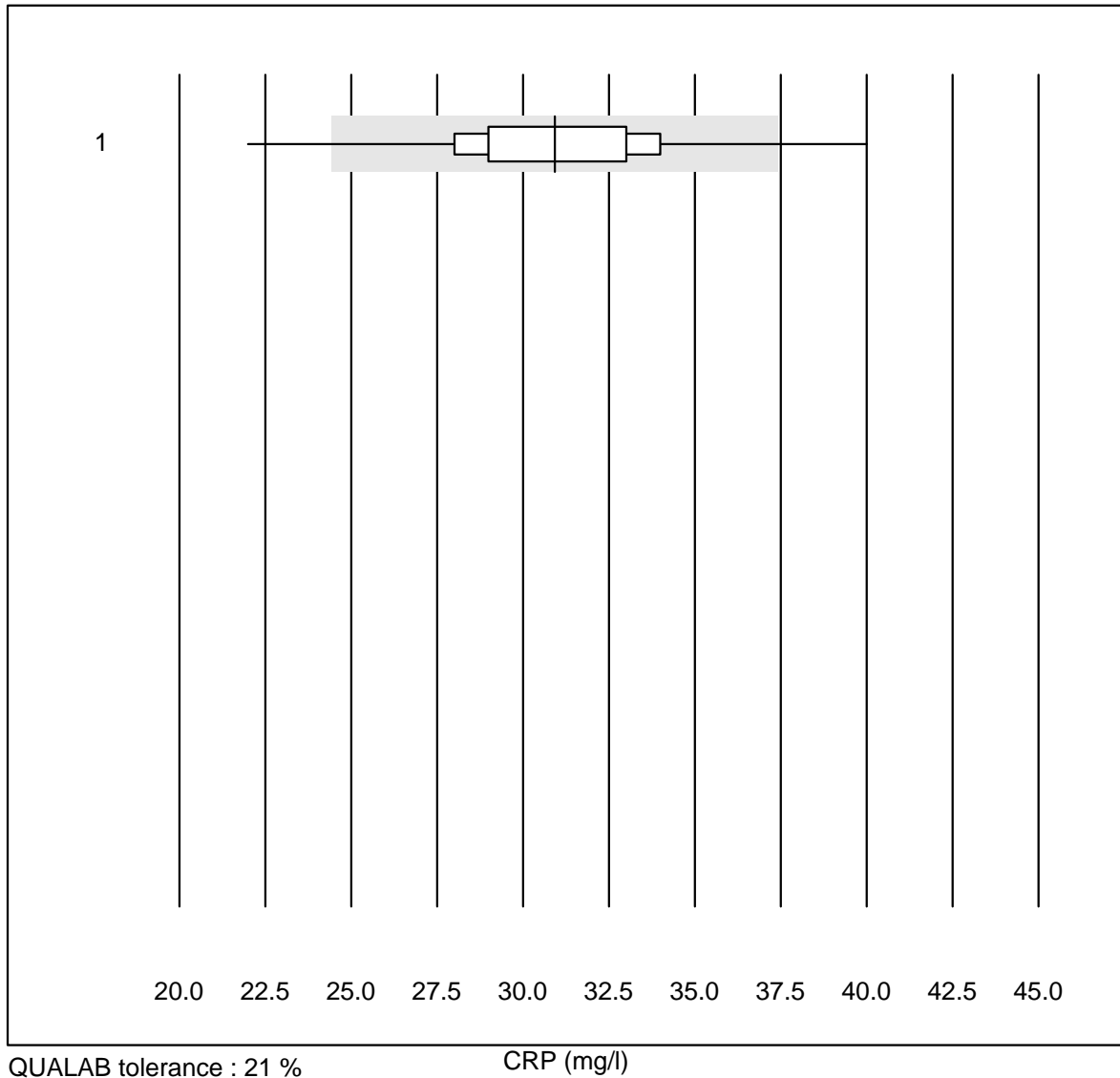
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Micros	805	96.8	1.6	1.6	214.6	8.3	e
2	Microsemi	291	99.4	0.3	0.3	221.2	6.0	e
3	Sysmex KX21	422	98.9	0.2	0.9	210.7	4.7	e
4	Sysmex PochH - 100i	209	99.5	0.5	0.0	213.3	5.1	e
5	Sysmex XP 300	202	99.5	0.5	0.0	219.1	4.7	e
6	Mythic	245	97.6	2.0	0.4	216.3	10.2	e
7	Swelab	71	94.4	2.8	2.8	197.7	8.7	e
8	Abacus Junior	12	91.7	0.0	8.3	223.5	6.1	e
9	Medonic	16	100.0	0.0	0.0	201.9	4.5	e
10	Nihon Kohden Celltac	40	90.0	0.0	10.0	209.3	7.0	e
11	Samsung HC10	45	100.0	0.0	0.0	221.4	6.8	e
12	Norma Icon 3	7	100.0	0.0	0.0	215.0	6.3	e

CRP



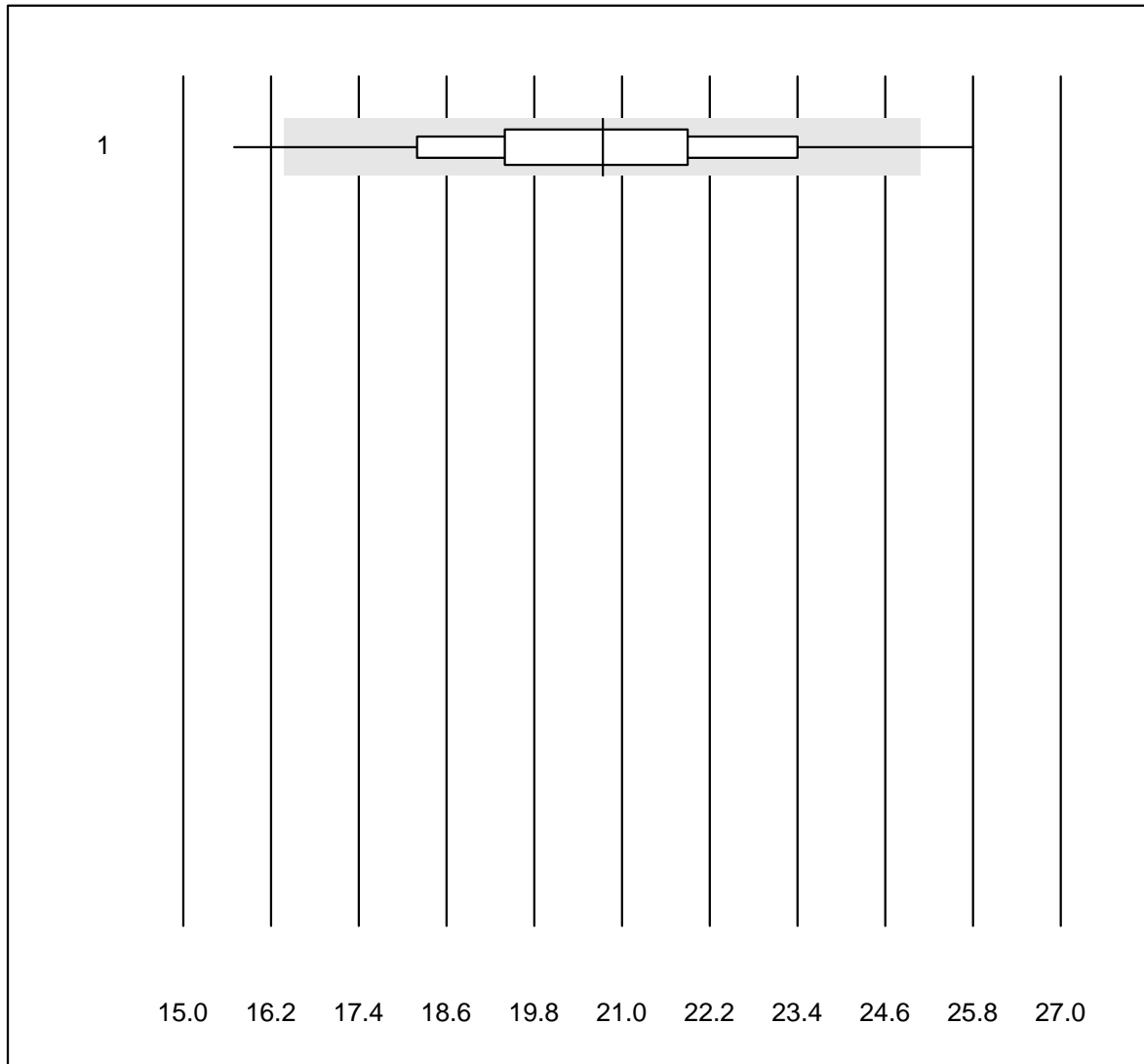
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Afinion	1188	97.5	1.8	0.7	20.0	8.6	e
2	NycoCard SingleTest-	413	75.8	9.4	14.8	21.5	12.4	e
3	Abx Micros	112	97.3	0.9	1.8	20.0	8.1	e
4	ABX Micros CRP200	314	94.9	4.5	0.6	20.0	10.3	e
5	Quick Read go	116	96.5	2.6	0.9	19.5	8.0	e
6	Turbidimetry	41	82.9	9.8	7.3	19.7	11.0	e
7	Cobas	11	100.0	0.0	0.0	19.3	11.2	e*
8	Fuji Dri-Chem	27	77.8	0.0	22.2	20.0	11.2	e
9	Eurolyser	128	78.1	6.3	15.6	25.0	11.7	e
10	AQT 90 FLEX	6	100.0	0.0	0.0	22.5	3.7	e
11	Spotchem D-Concept	6	100.0	0.0	0.0	23.9	6.4	e*
12	Spotchem SI-3510	5	80.0	20.0	0.0	18.1	9.9	e*
13	Other methods	4	75.0	25.0	0.0	20.0	20.0	a

CRP



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	QuikRead (Vollblut)	168	92.8	2.4	4.8	30.9	8.8	e

CRP emi



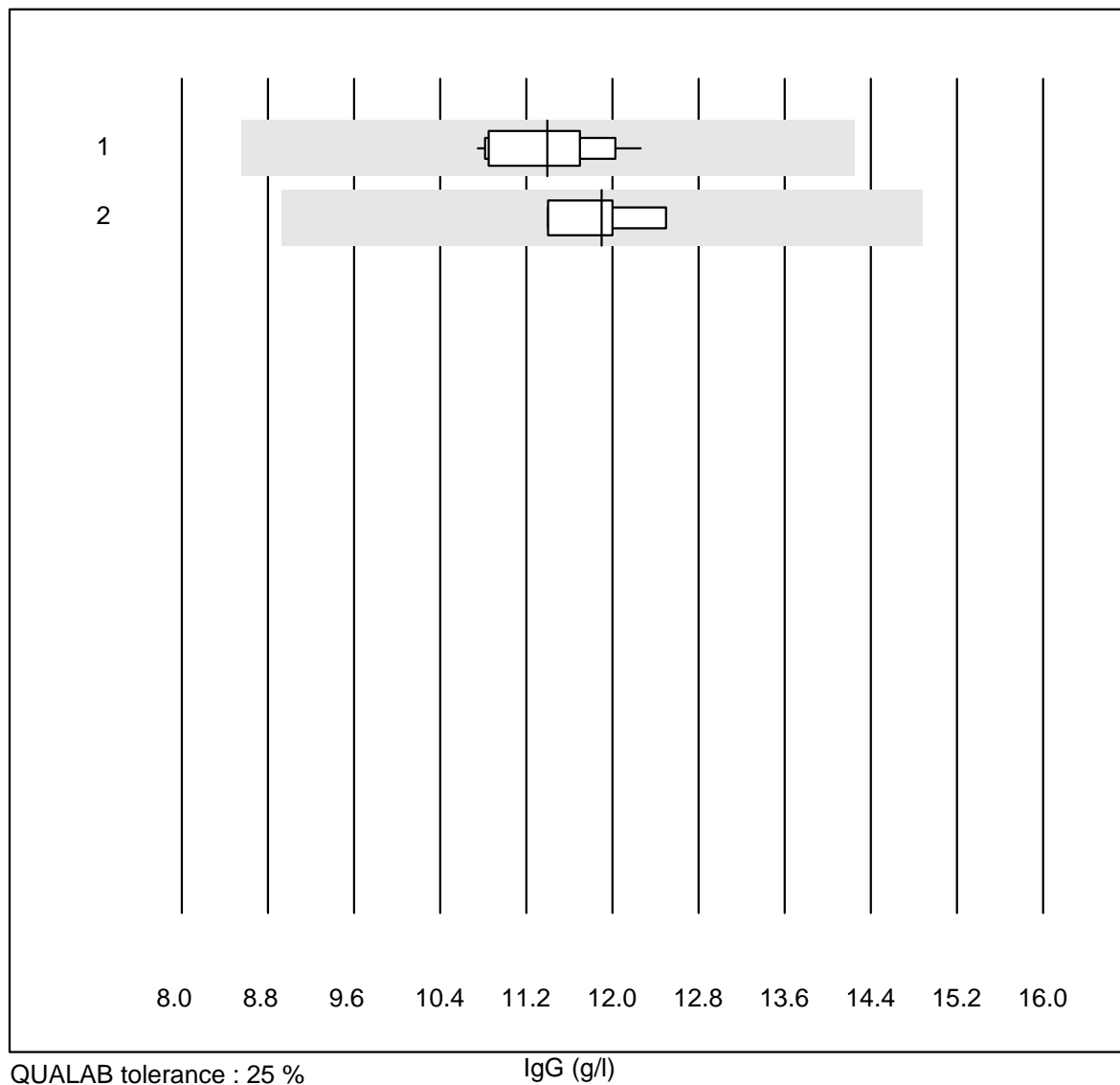
QUALAB tolerance : 21 %

CRP emi (mg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Microsemi	288	96.2	2.8	1.0	20.7	9.5	e

I2 Plasmaproteins

IgG

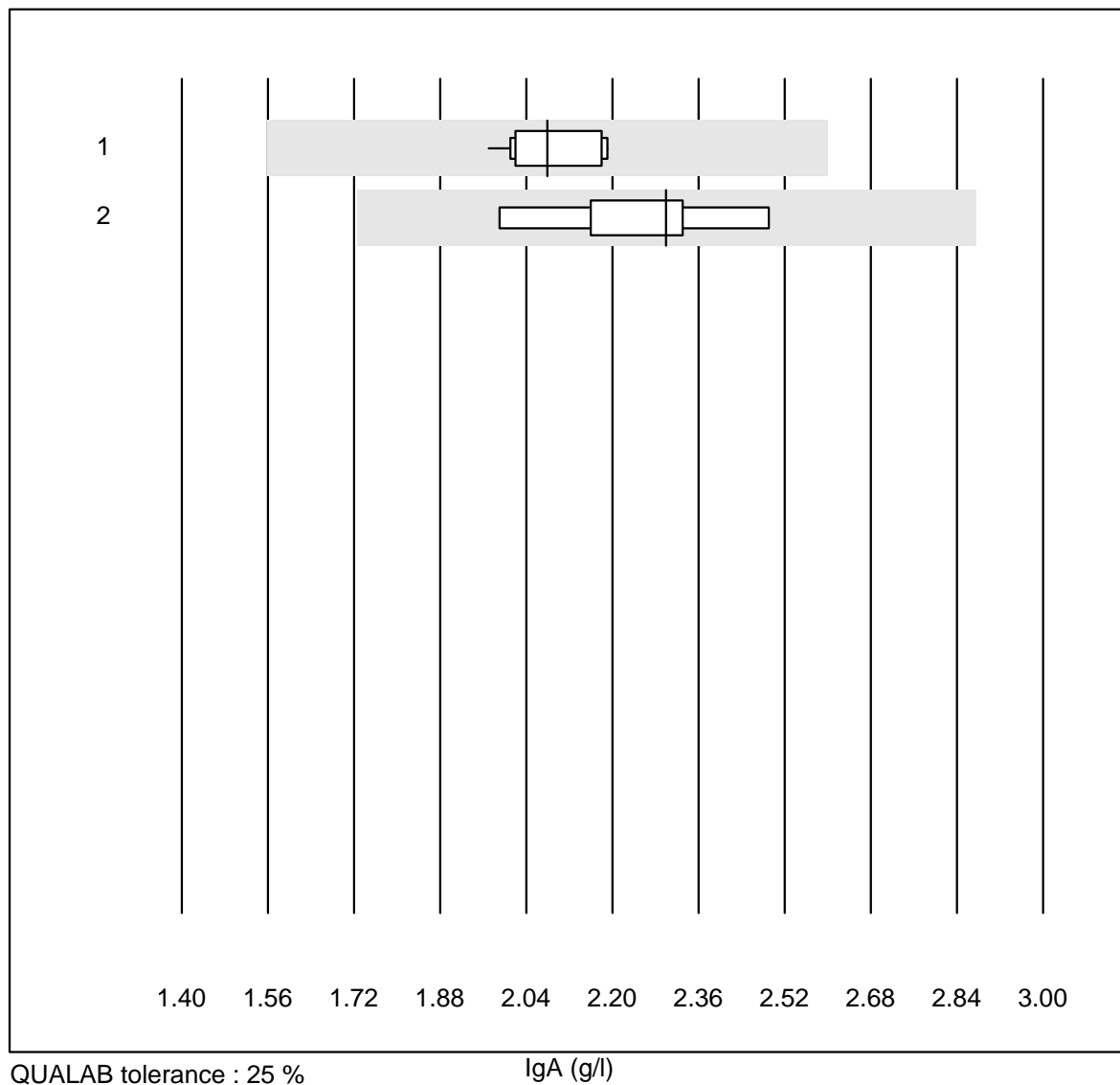


QUALAB tolerance : 25 %

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Turbidimetry	11	100.0	0.0	0.0	11.4	4.5	e
2	Nephelometry	7	100.0	0.0	0.0	11.9	3.4	e

I2 Plasmaproteins

IgA

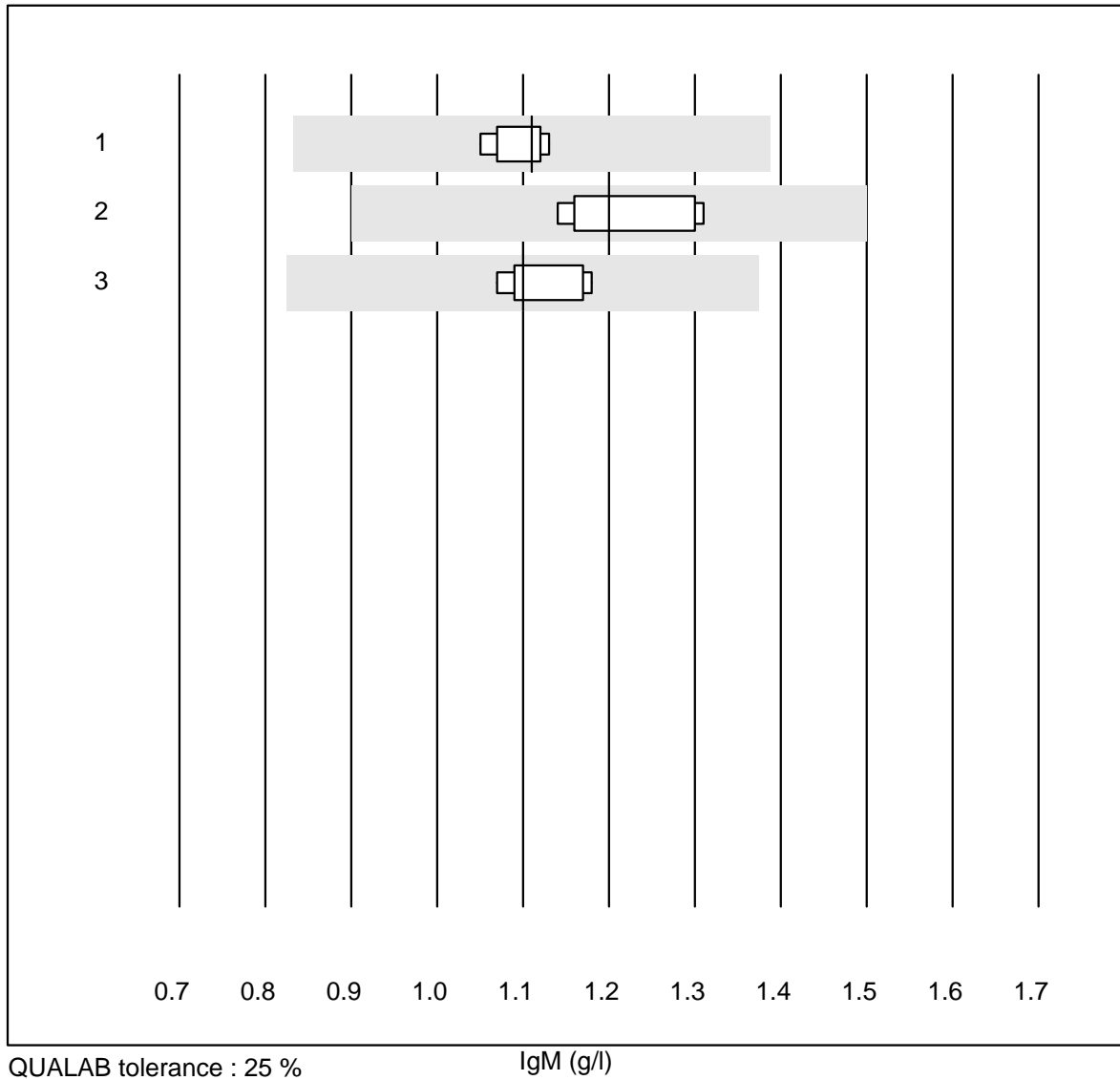


QUALAB tolerance : 25 %

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Turbidimetry	11	100.0	0.0	0.0	2.1	3.7	e
2	Nephelometry	7	100.0	0.0	0.0	2.3	6.9	e

I2 Plasmaproteins

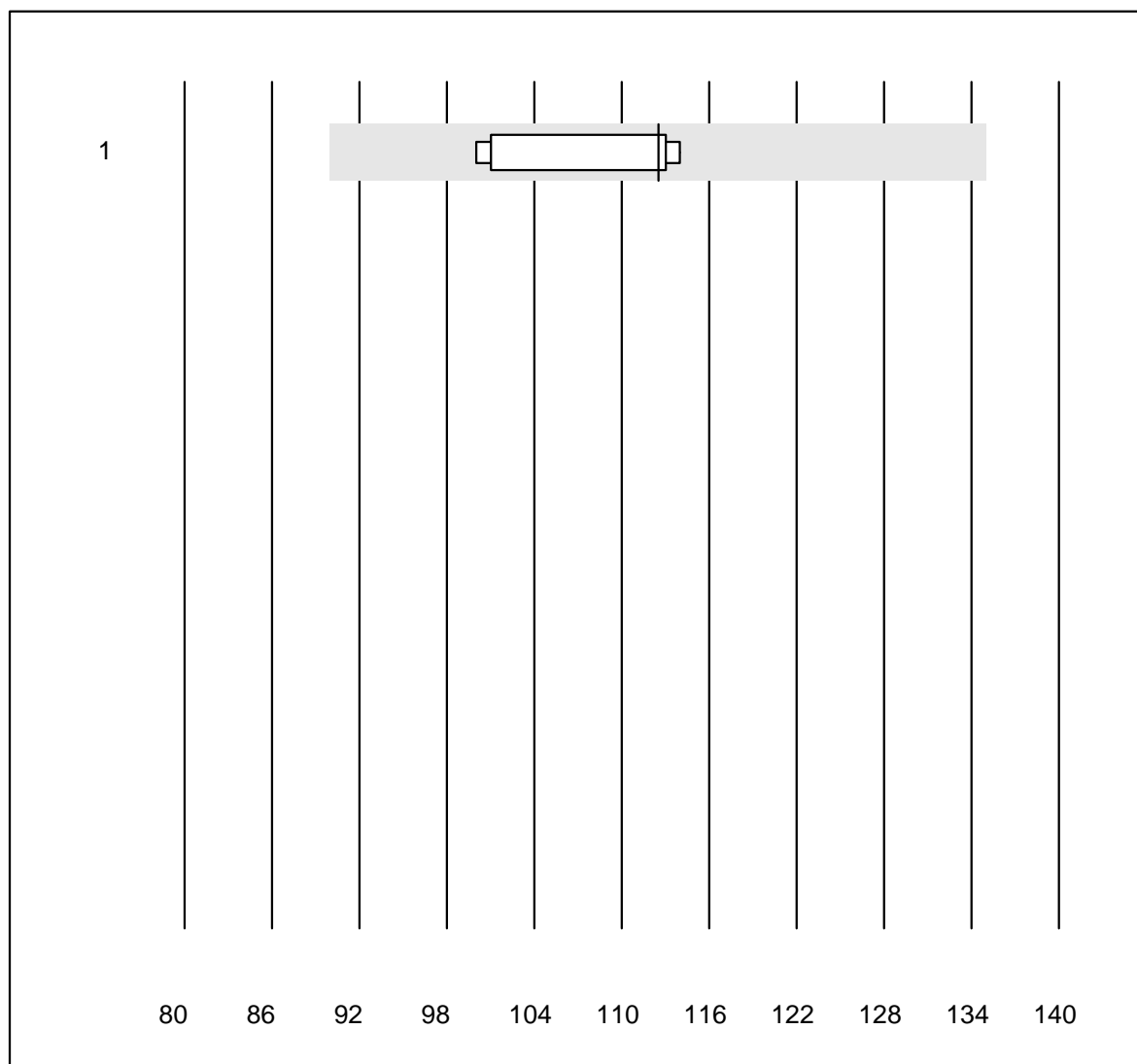
IgM



QUALAB tolerance : 25 %

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Turbidimetry	5	100.0	0.0	0.0	1.1	3.1	e
2	Nephelometry	7	100.0	0.0	0.0	1.2	5.4	e
3	Cobas Integra 800/40	6	100.0	0.0	0.0	1.1	4.1	e

IgE

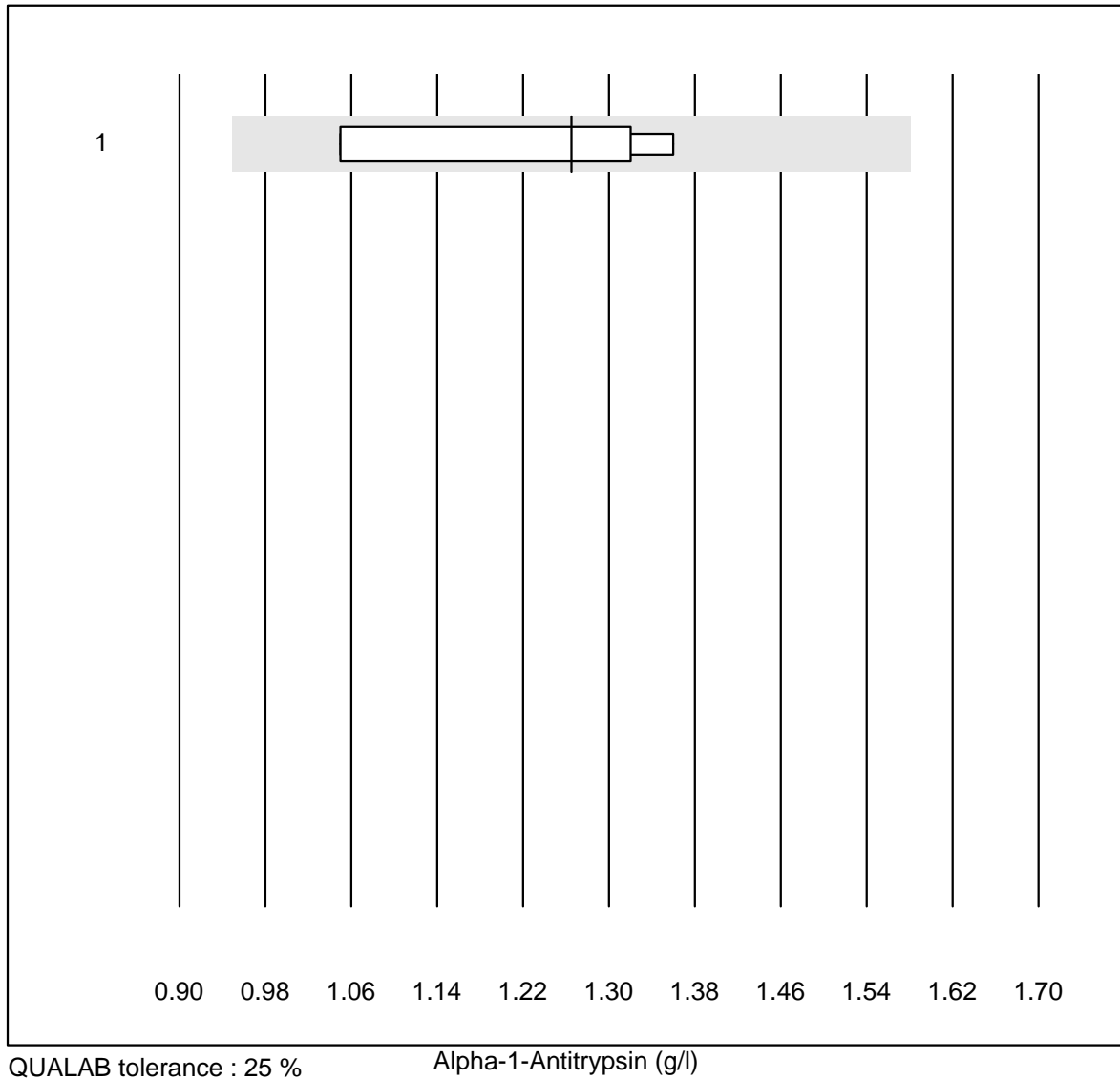


QUALAB tolerance : 20 %

IgE (kU/L)

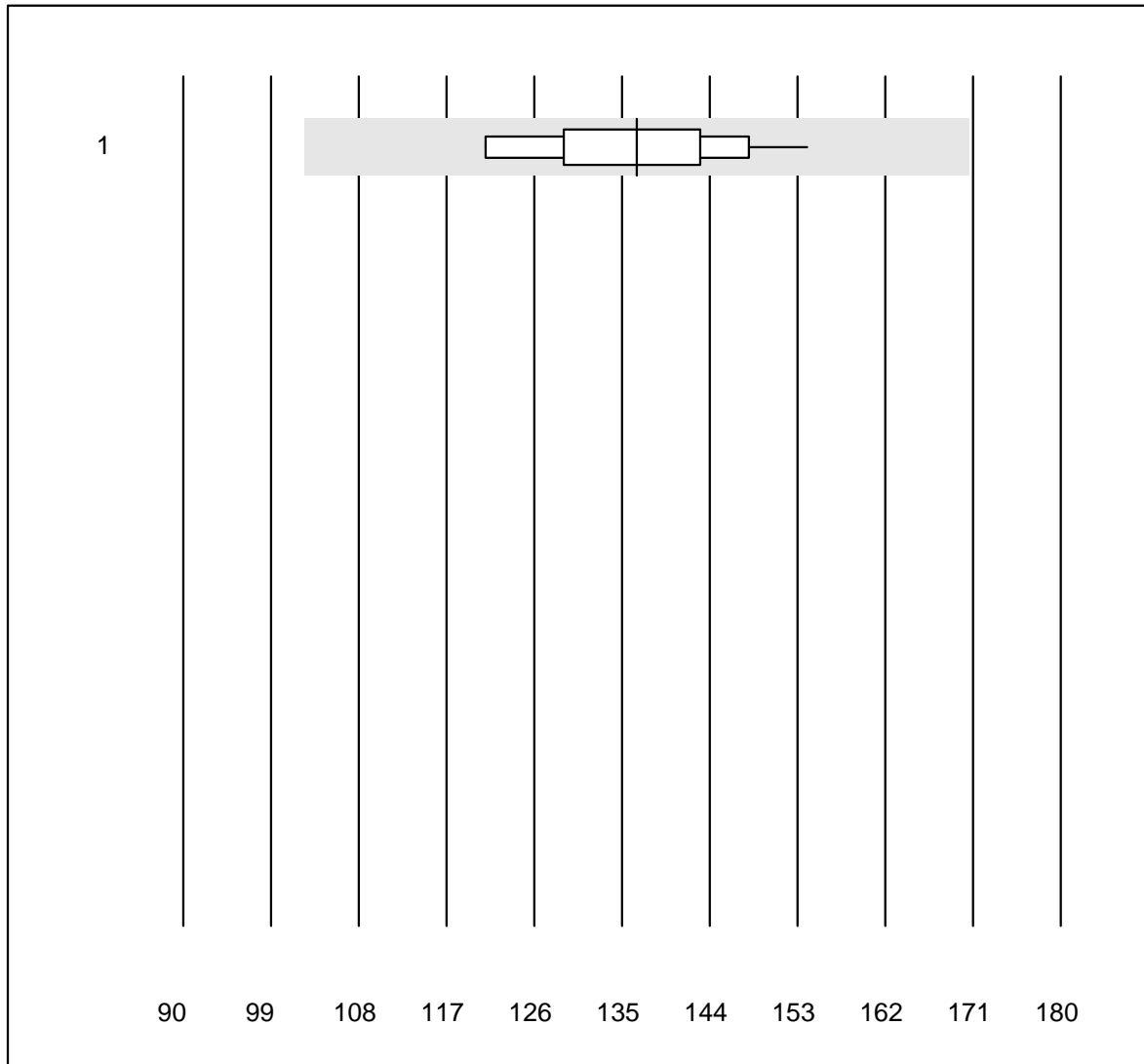
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	8	100.0	0.0	0.0	113	5.5	e

Alpha-1-Antitrypsin



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Nephelometry	4	100.0	0.0	0.0	1.27	11.2	e*

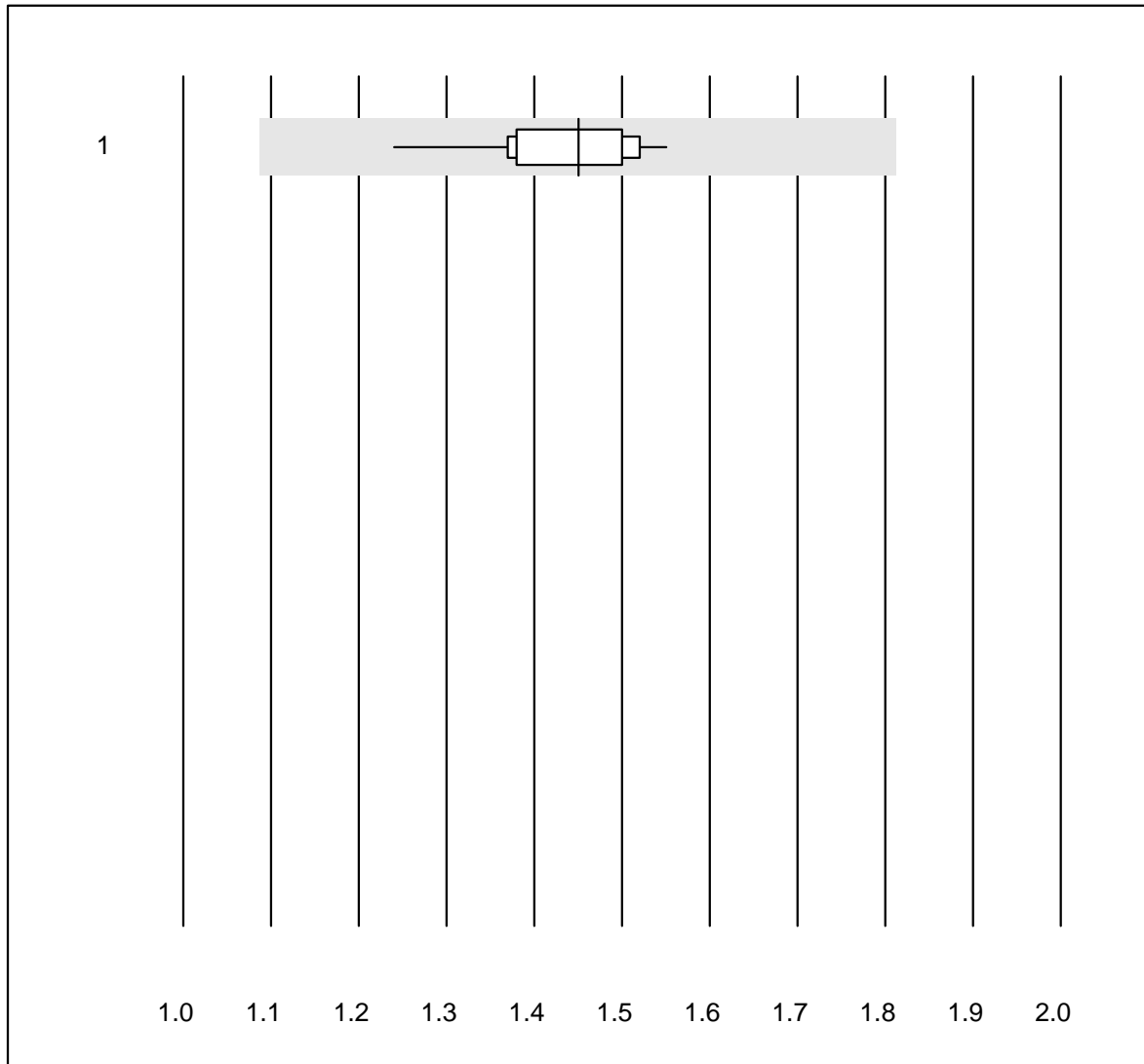
Anti-Streptolysin-Antibodies



QUALAB tolerance : 25 % Anti-Streptolysin-Antibodies (kIU/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	10	100.0	0.0	0.0	137	7.5	e

Complement C3

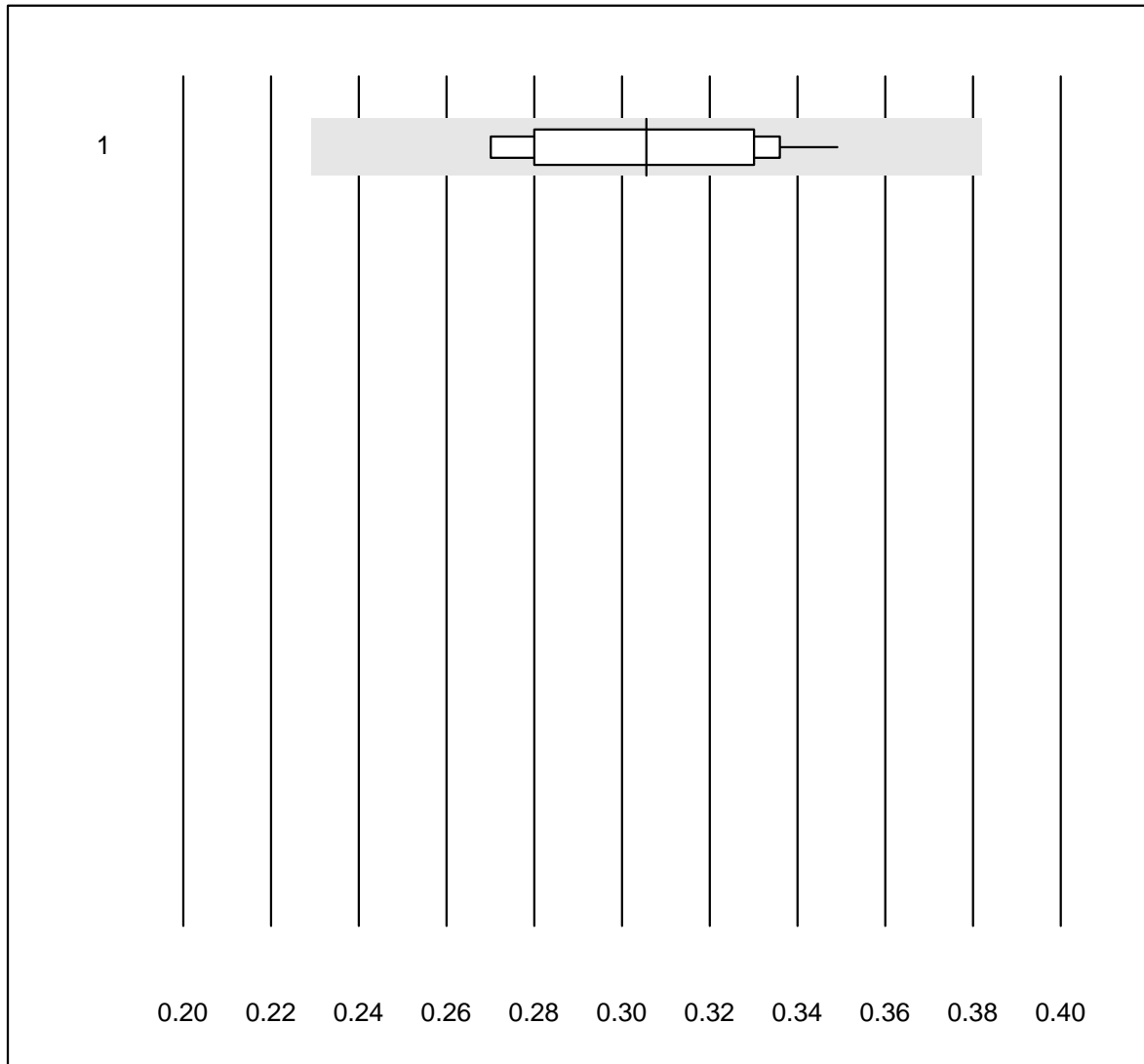


QUALAB tolerance : 25 %

Complement C3 (g/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	12	100.0	0.0	0.0	1.45	6.0	e

Complement C4

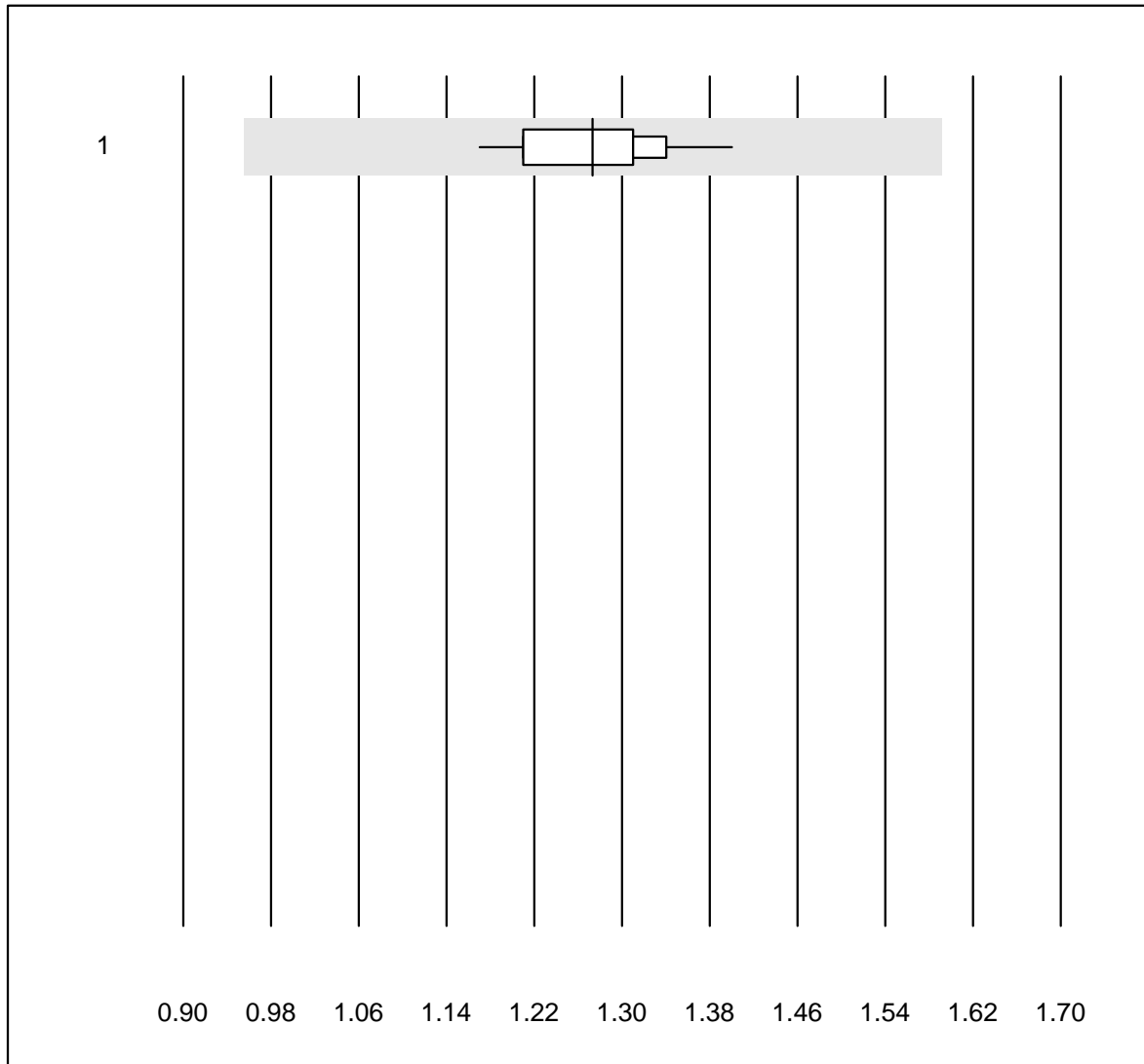


QUALAB tolerance : 25 %

Complement C4 (g/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	11	90.9	0.0	9.1	0.31	8.5	e

Haptoglobin

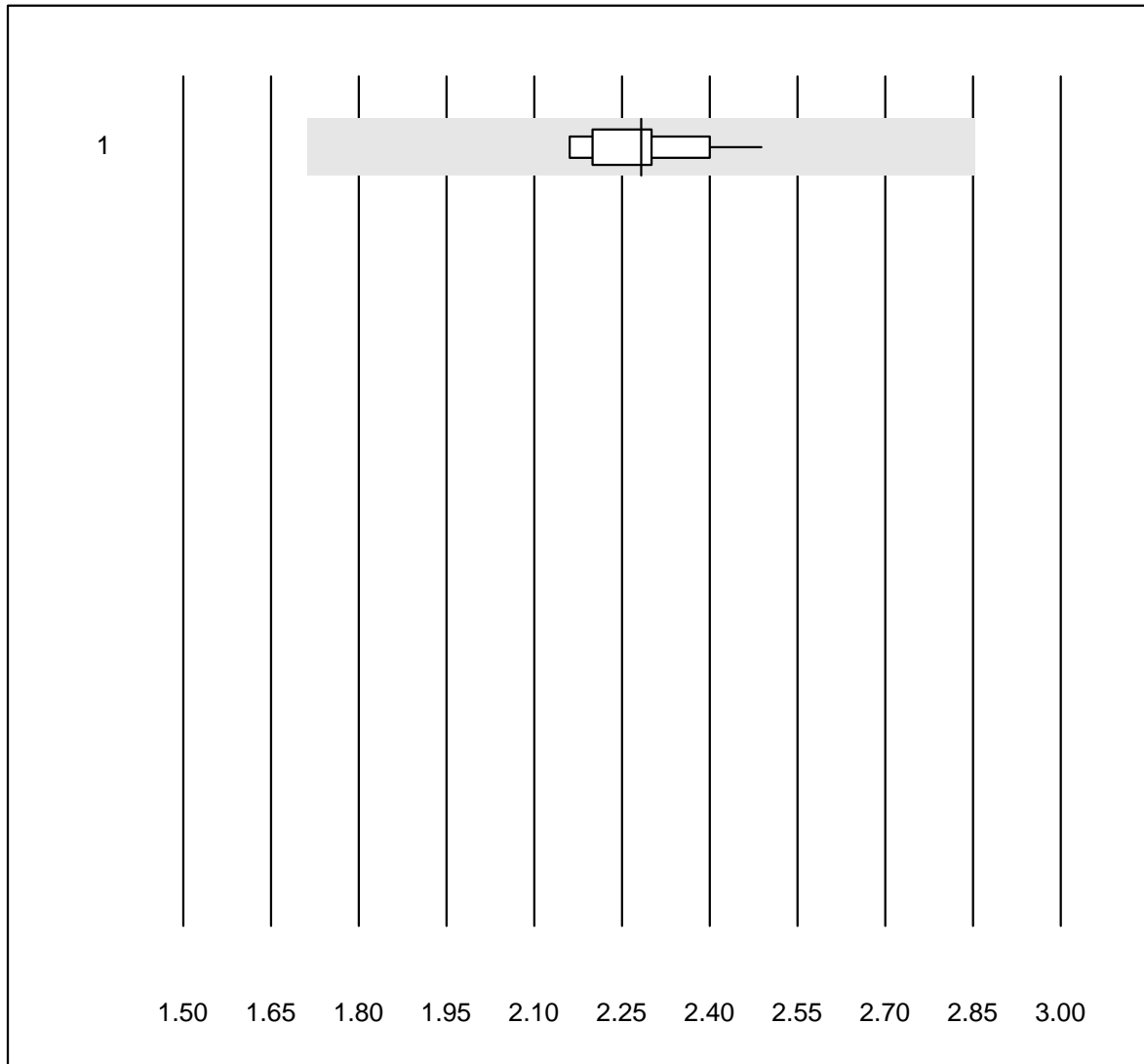


QUALAB tolerance : 25 %

Haptoglobin (g/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 all Participants	12	100.0	0.0	0.0	1.27	5.3	e

Transferrin

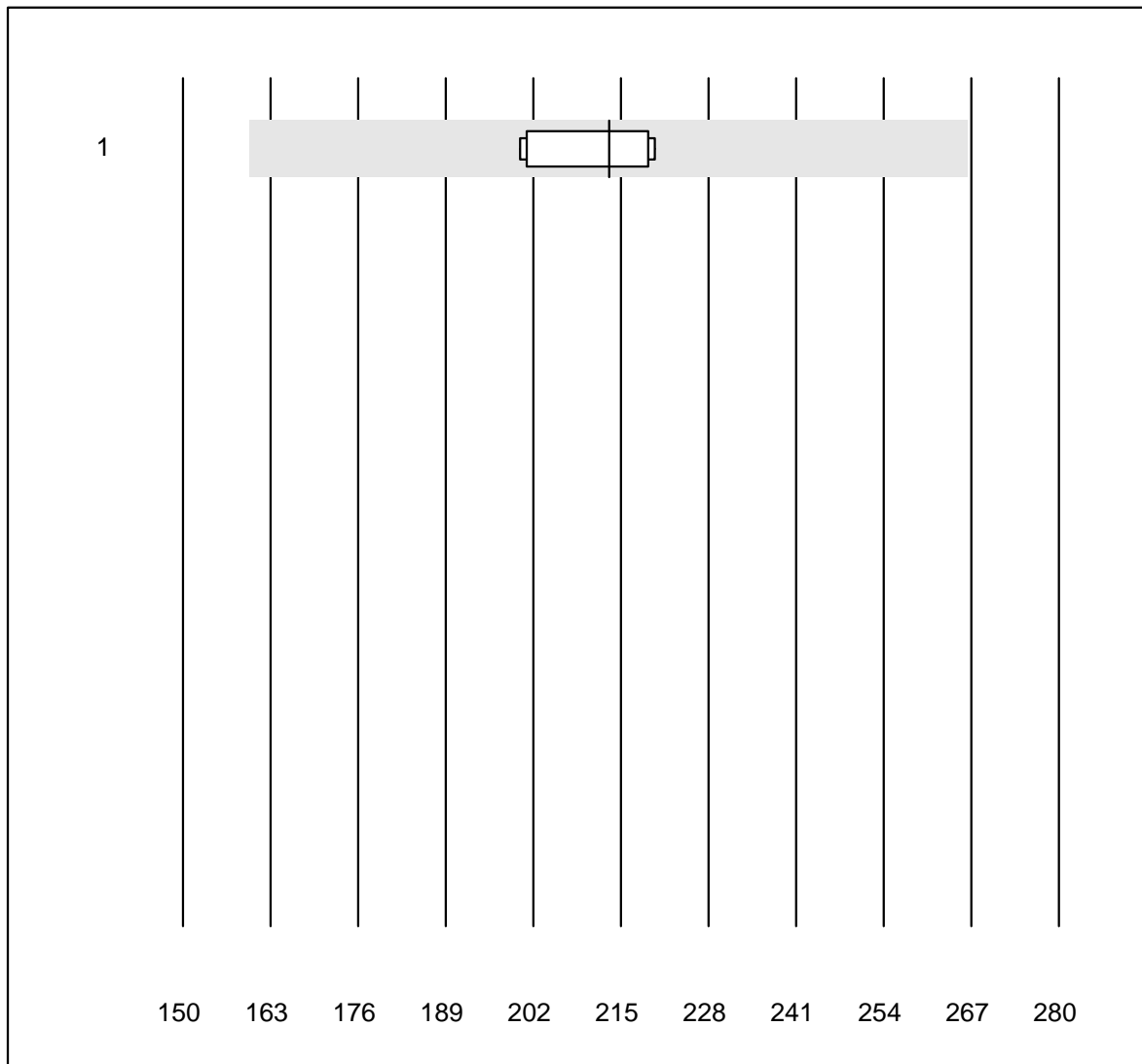


QUALAB tolerance : 25 %

Transferrin (g/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	16	100.0	0.0	0.0	2.28	4.1	e

Präalbumin

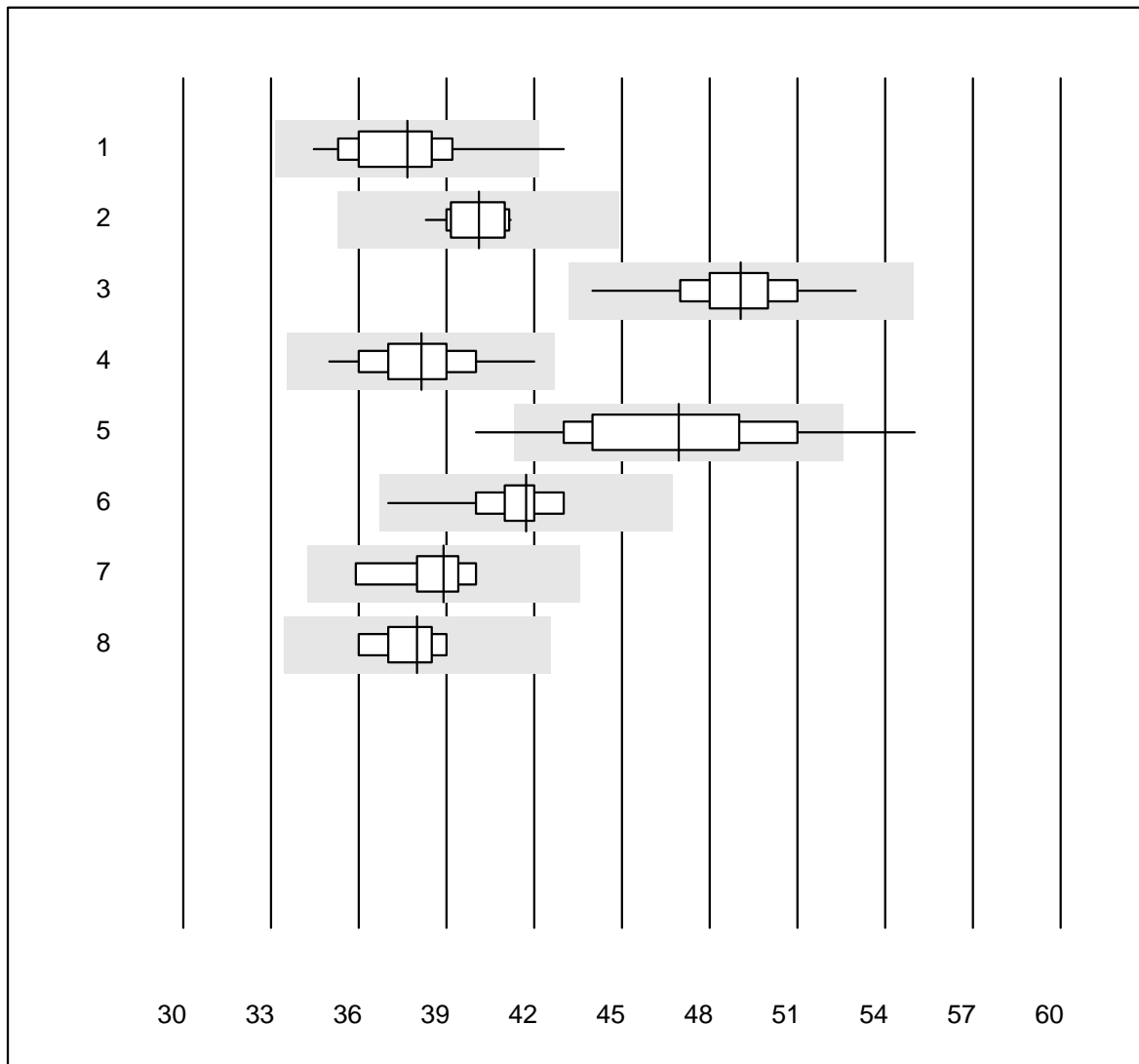


QUALAB tolerance : 25 %

Präalbumin (mg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	7	100.0	0.0	0.0	213.2	3.9	e

Albumine

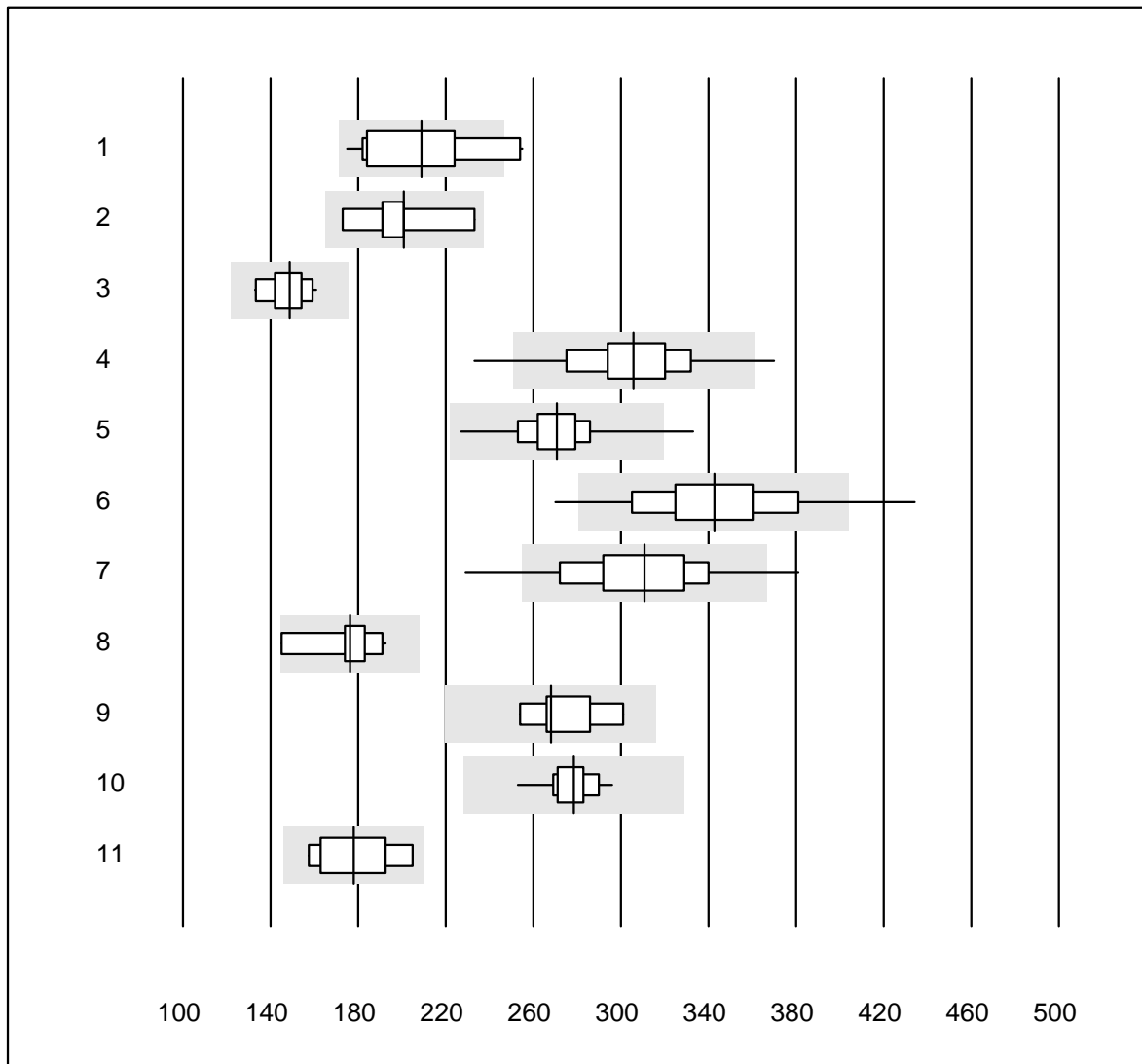


QUALAB tolerance : 12 %

Albumine (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	21	95.2	4.8	0.0	38	5.3	e
2	Cobas	12	100.0	0.0	0.0	40	2.4	e
3	Fuji Dri-Chem	172	100.0	0.0	0.0	49	3.4	e
4	Spotchem/Ready	42	100.0	0.0	0.0	38	4.3	e
5	Spotchem D-Concept	72	88.9	9.7	1.4	47	7.0	e
6	Piccolo	29	100.0	0.0	0.0	42	3.1	e
7	Abx Mira	8	87.5	0.0	12.5	39	3.4	e
8	Hitachi S40/M40	9	100.0	0.0	0.0	38	2.7	e

Alkaline phosphatase

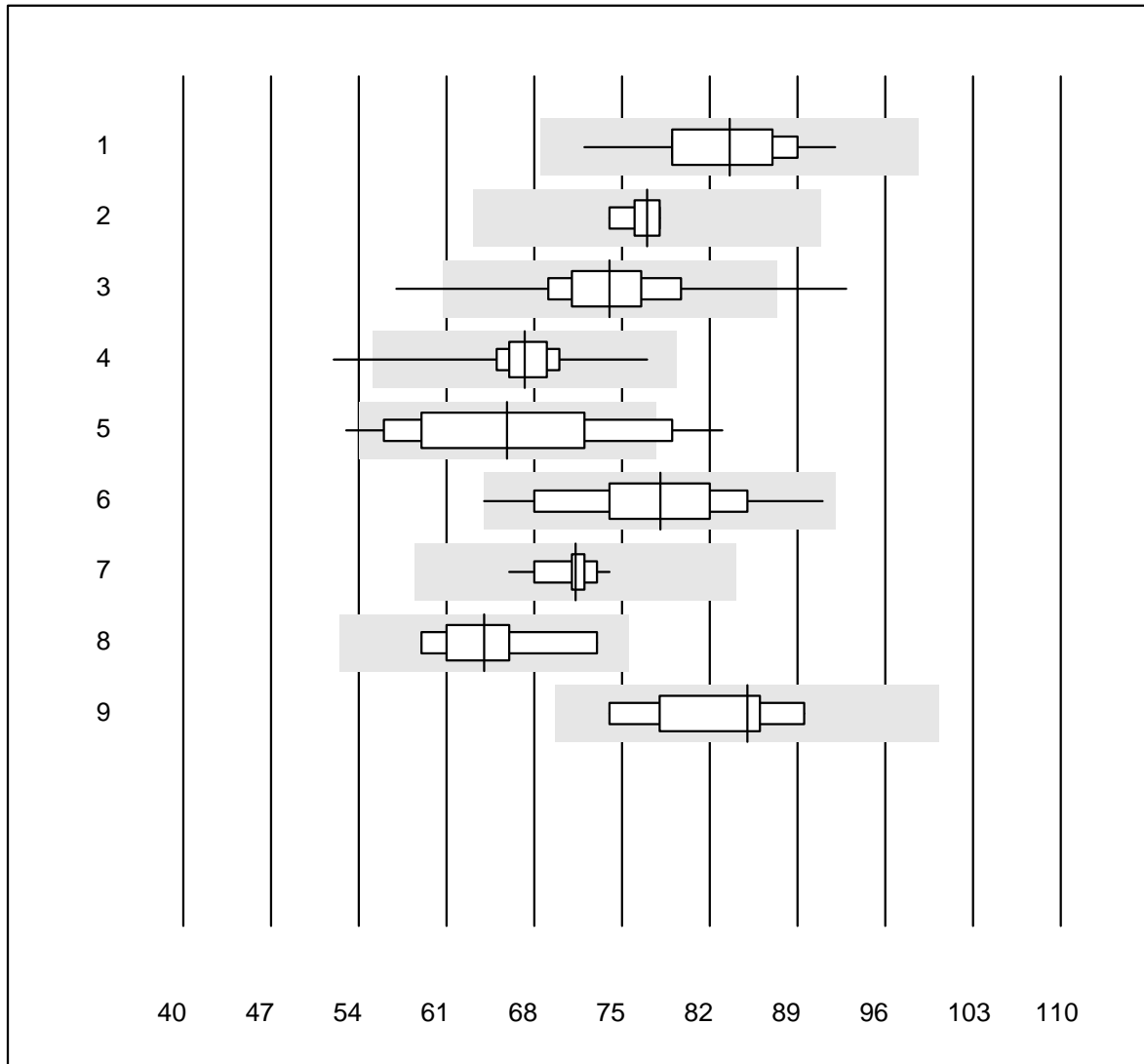


QUALAB tolerance : 18 %

Alkaline phosphatase (U/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Autolyser/DiaSys	12	83.3	16.7	0.0	209	13.7	e*
2	IFCC/SGKC 37'C	11	81.8	0.0	18.2	201	9.9	e*
3	Cobas	17	100.0	0.0	0.0	149	5.5	e
4	Reflotron	669	96.0	2.4	1.6	306	7.4	e
5	Fuji Dri-Chem	676	99.6	0.3	0.1	271	4.9	e
6	Spotchem/Ready	112	89.3	8.9	1.8	343	9.3	e
7	Spotchem D-Concept	134	94.0	6.0	0.0	311	9.0	e
8	Hitachi S40/M40	14	100.0	0.0	0.0	176	8.3	e*
9	Beckman DXC	9	100.0	0.0	0.0	268	5.6	e
10	Piccolo	28	100.0	0.0	0.0	278	3.2	e
11	Abx Mira	8	87.5	0.0	12.5	178	9.1	e*

Amylase

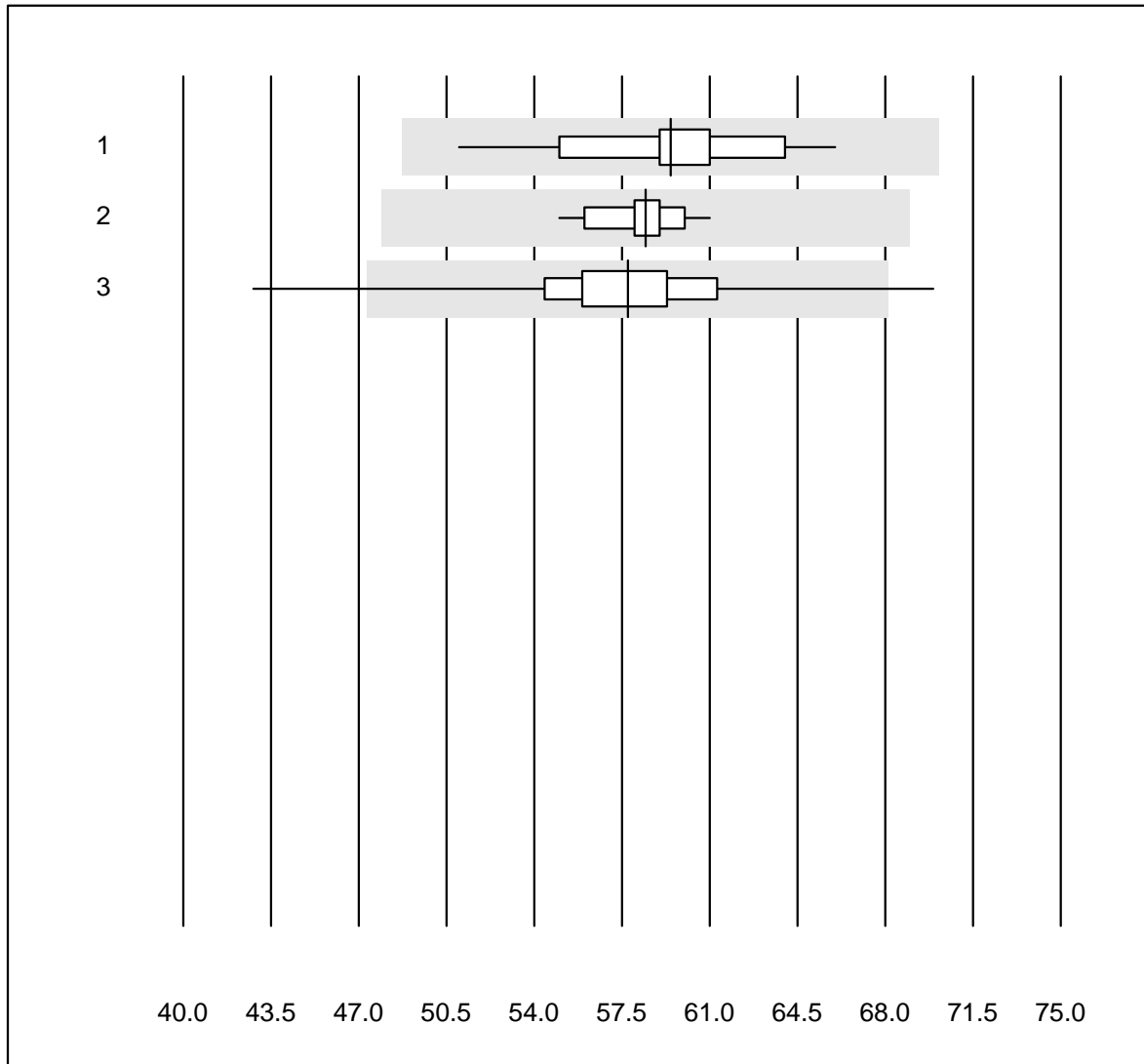


QUALAB tolerance : 18 %

Amylase (U/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 IFCC EPS liquid 37°C	12	100.0	0.0	0.0	84	6.5	e
2 Cobas	5	100.0	0.0	0.0	77	2.2	e
3 Reflotron	179	95.6	2.2	2.2	74	6.6	e
4 Fuji Dri-Chem	503	99.6	0.2	0.2	67	3.5	e
5 Spotchem/Ready	75	73.4	13.3	13.3	66	12.5	e
6 Spotchem D-Concept	100	100.0	0.0	0.0	78	7.9	e
7 Piccolo	26	100.0	0.0	0.0	71	2.7	e
8 Abx Mira	9	88.9	0.0	11.1	64	8.1	e*
9 Hitachi S40/M40	7	85.7	0.0	14.3	85	6.9	e*

Pancreatic amylase

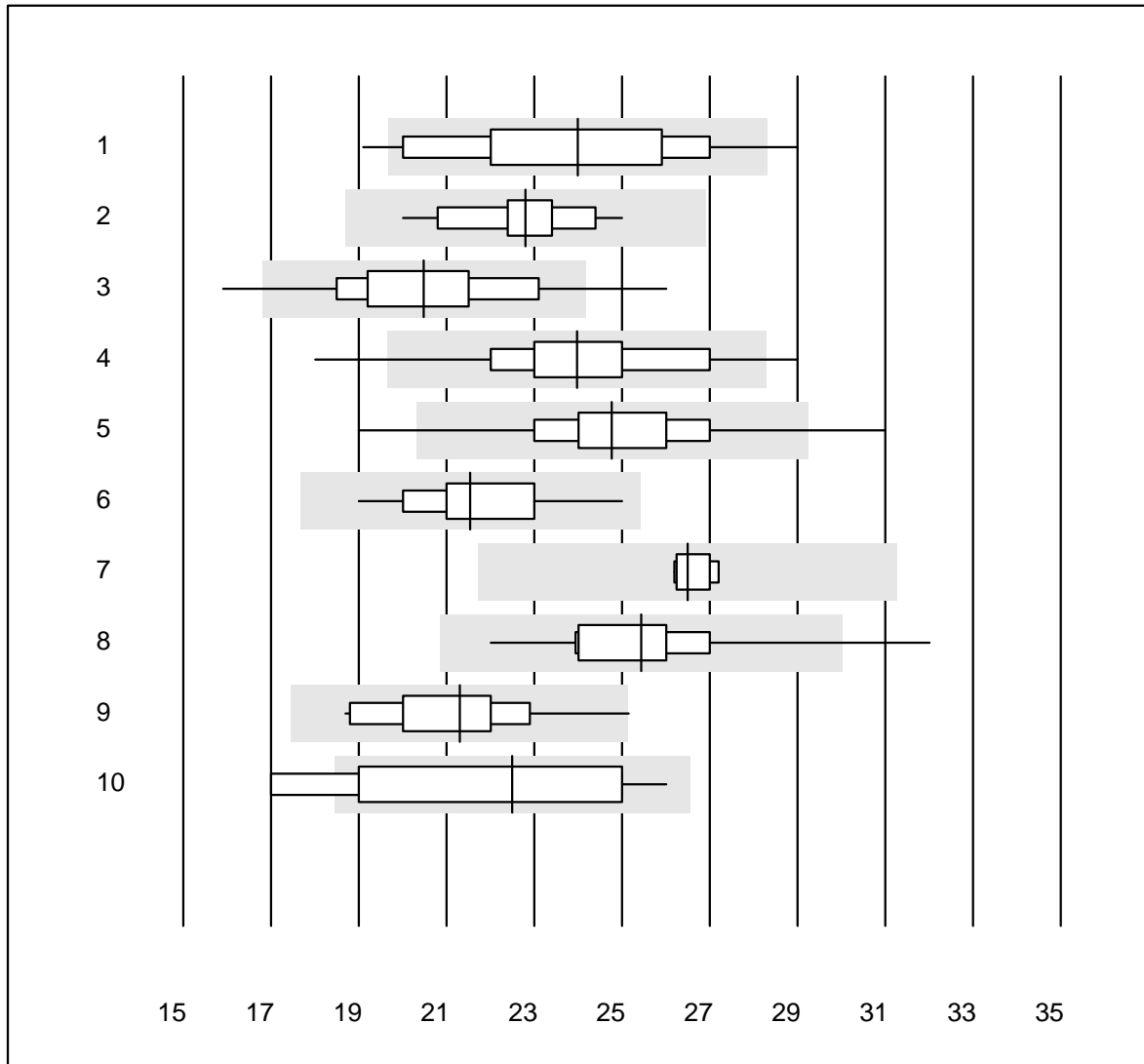


QUALAB tolerance : 18 %

Pancreatic amylase (U/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 IFCC EPS liquid 37°C	19	84.2	0.0	15.8	59	5.9	e
2 Cobas	13	100.0	0.0	0.0	58	2.7	e
3 Reflotron	436	98.0	0.9	1.1	58	5.4	e

Bilirubin

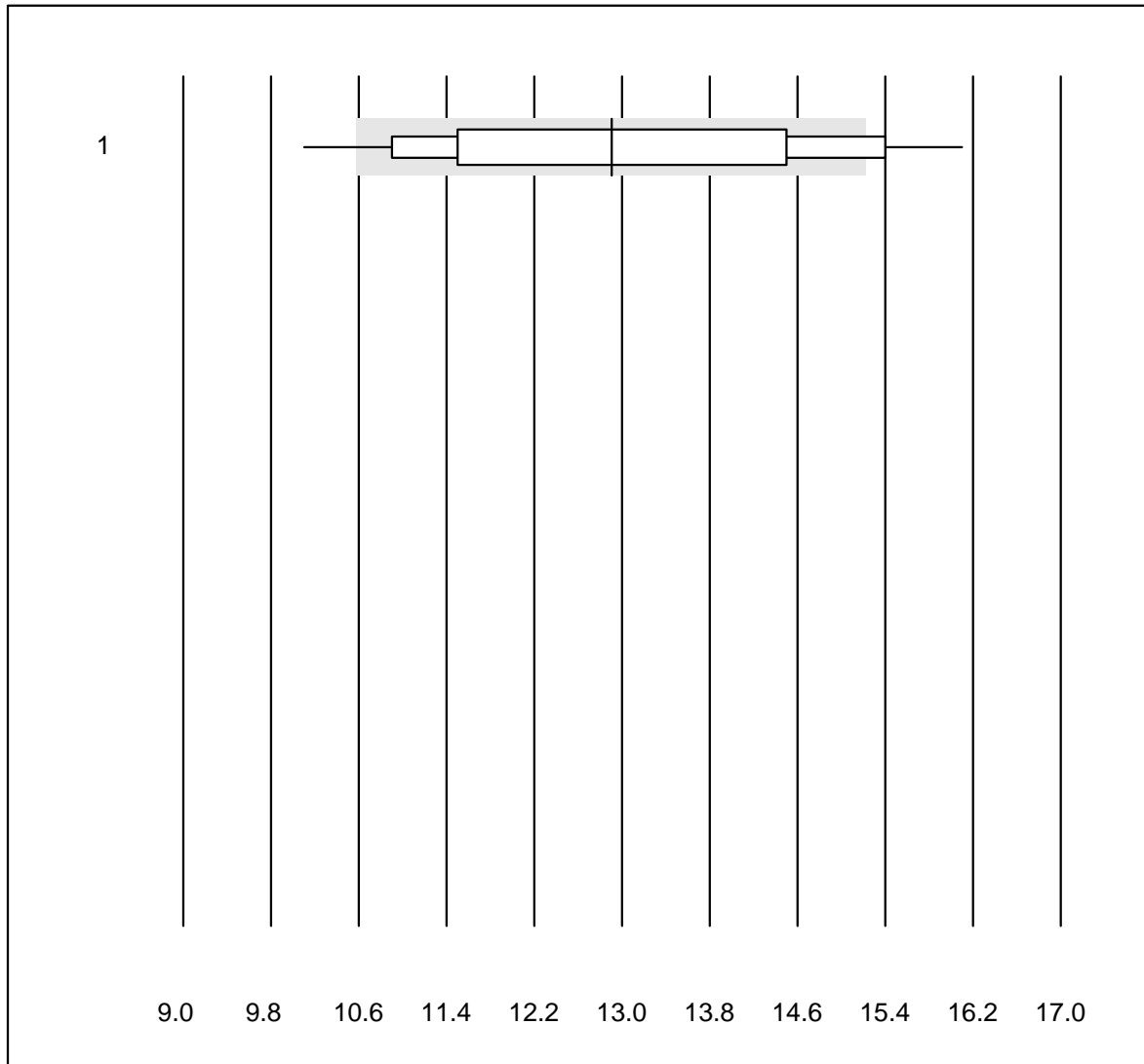


QUALAB tolerance : 18 %

Bilirubin (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	15	86.7	13.3	0.0	24.0	11.6	e*
2	Cobas	16	100.0	0.0	0.0	22.8	5.7	e
3	Reflotron	487	91.0	5.1	3.9	20.5	8.9	e
4	Fuji Dri-Chem	508	96.4	2.4	1.2	24.0	7.8	e
5	Spotchem/Ready	92	95.7	4.3	0.0	24.8	7.6	e
6	Spotchem D-Concept	107	100.0	0.0	0.0	21.5	6.4	e
7	Beckman DXC	7	100.0	0.0	0.0	26.5	1.5	e
8	Piccolo	27	96.3	3.7	0.0	25.4	6.9	e
9	Abx Mira	20	95.0	5.0	0.0	21.3	8.0	e
10	Hitachi S40/M40	12	66.6	16.7	16.7	22.5	15.5	e*

Bilirubin direct

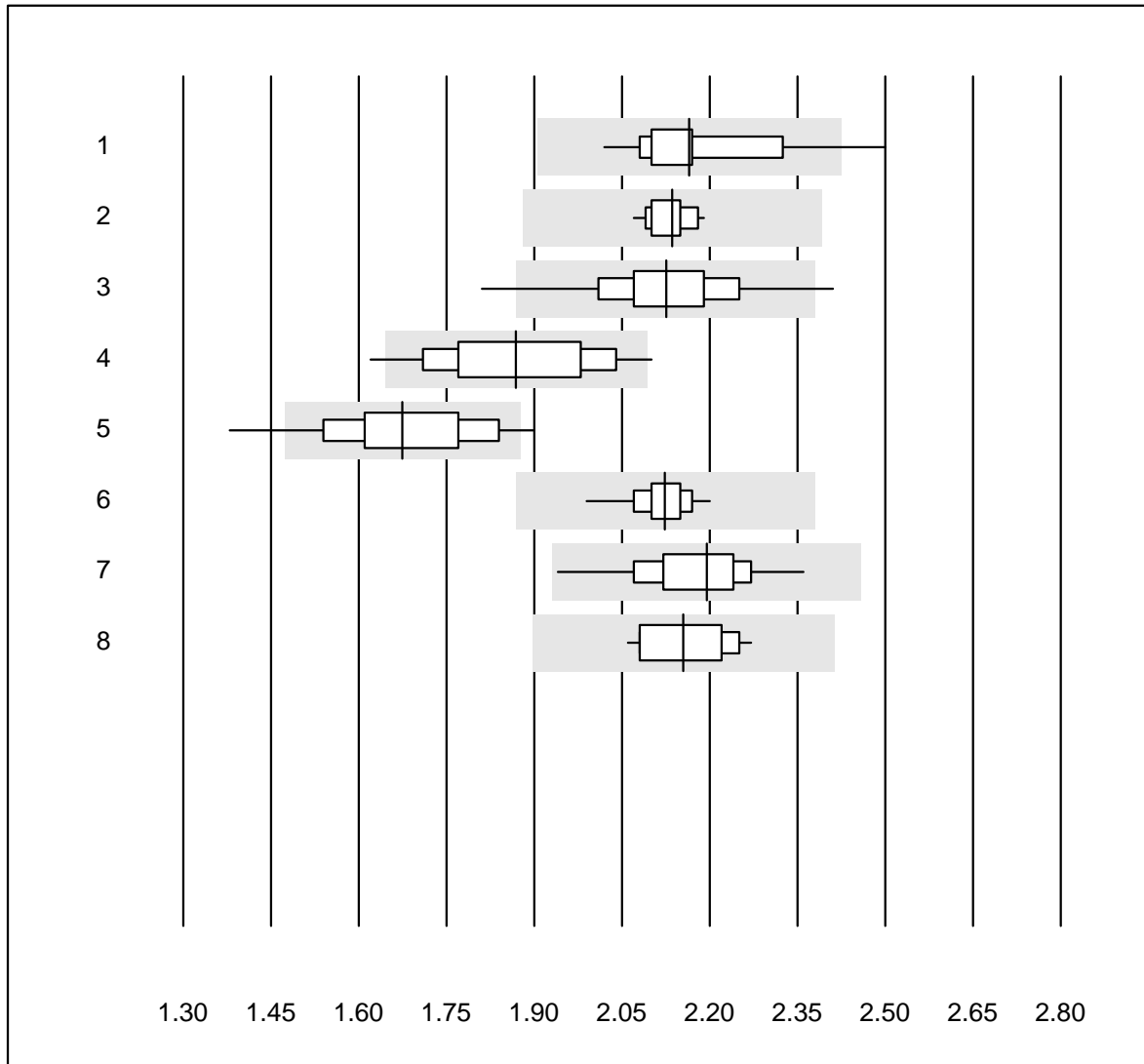


QUALAB tolerance : 18 %

Bilirubin direct (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Fuji Dri-Chem	32	59.4	15.6	25.0	12.9	14.3	e*

Calcium

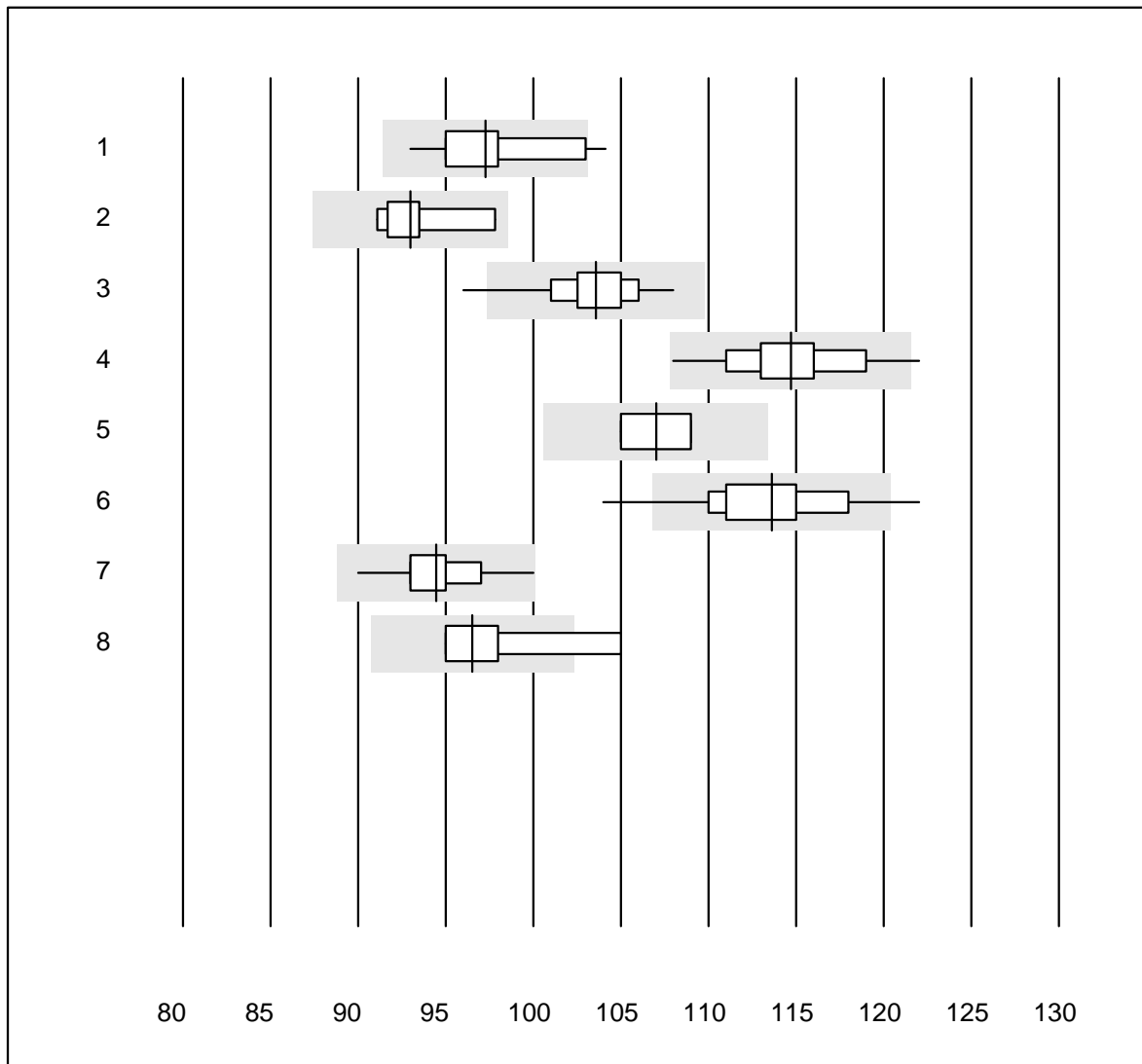


QUALAB tolerance : 12 %

Calcium (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	24	95.8	4.2	0.0	2.16	5.1	e
2	Cobas	12	100.0	0.0	0.0	2.14	1.8	e
3	Fuji Dri-Chem	346	98.8	1.2	0.0	2.13	4.4	e
4	Spotchem/Ready	43	88.3	4.7	7.0	1.87	6.9	e
5	Spotchem D-Concept	66	92.4	6.1	1.5	1.67	6.8	e
6	Piccolo	28	96.4	0.0	3.6	2.12	2.0	e
7	Abx Mira	13	100.0	0.0	0.0	2.20	4.7	e
8	Hitachi S40/M40	11	100.0	0.0	0.0	2.15	3.3	e

Chloride

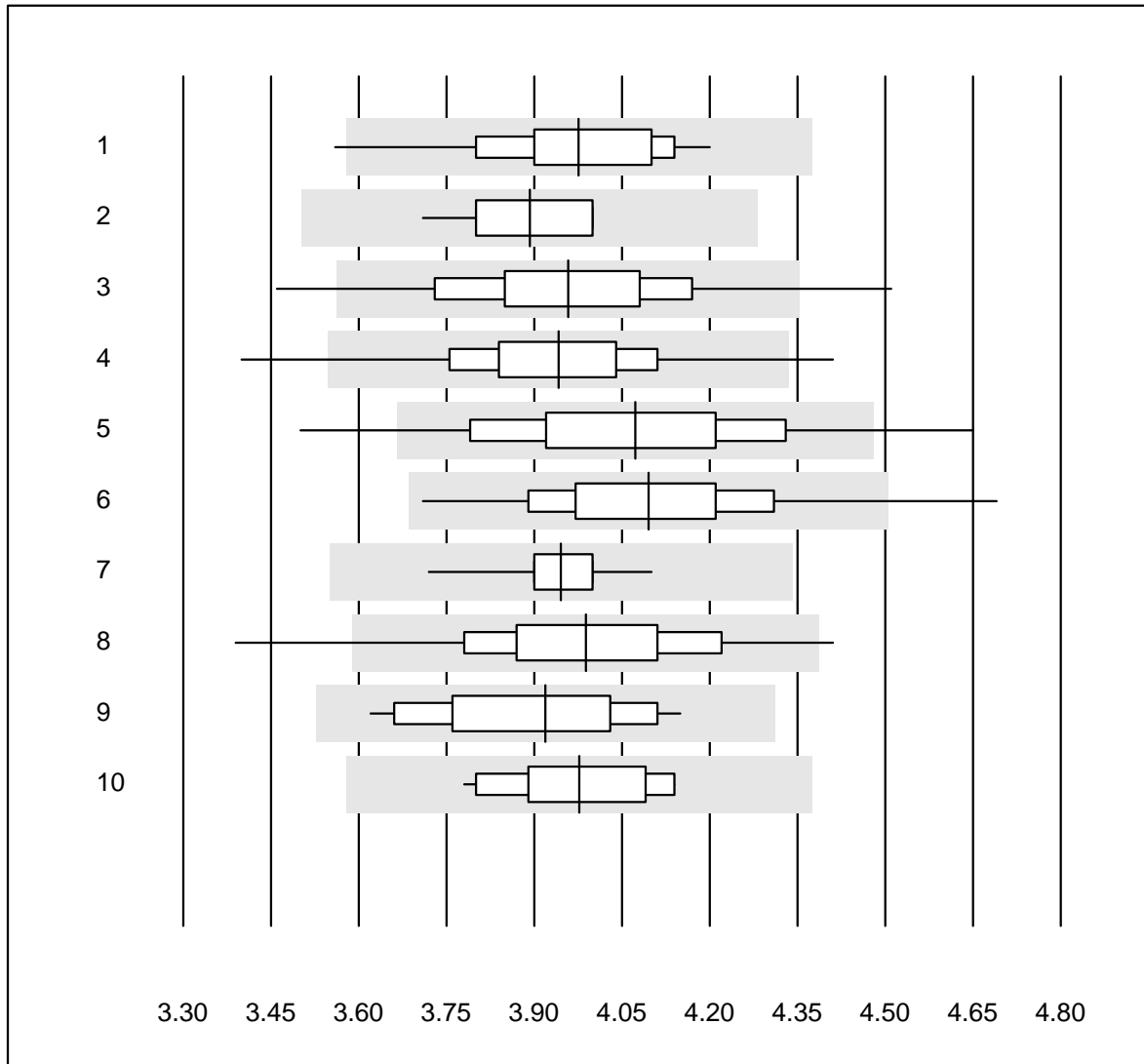


QUALAB tolerance : 6 %

Chloride (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ISE	17	88.2	5.9	5.9	97	3.3	e*
2	Cobas	9	100.0	0.0	0.0	93	2.6	e*
3	Fuji Dri-Chem	599	97.6	0.7	1.7	104	1.9	e
4	Spotchem D-Concept	123	95.9	0.8	3.3	115	2.3	e
5	Standard chemistry	4	75.0	0.0	25.0	107	2.1	e*
6	Spotchem EL-SE 1520	109	86.3	7.3	6.4	114	3.2	e
7	Piccolo	17	94.1	0.0	5.9	94	2.4	e
8	iStat Chem8	4	75.0	25.0	0.0	97	4.8	e*

Cholesterol total

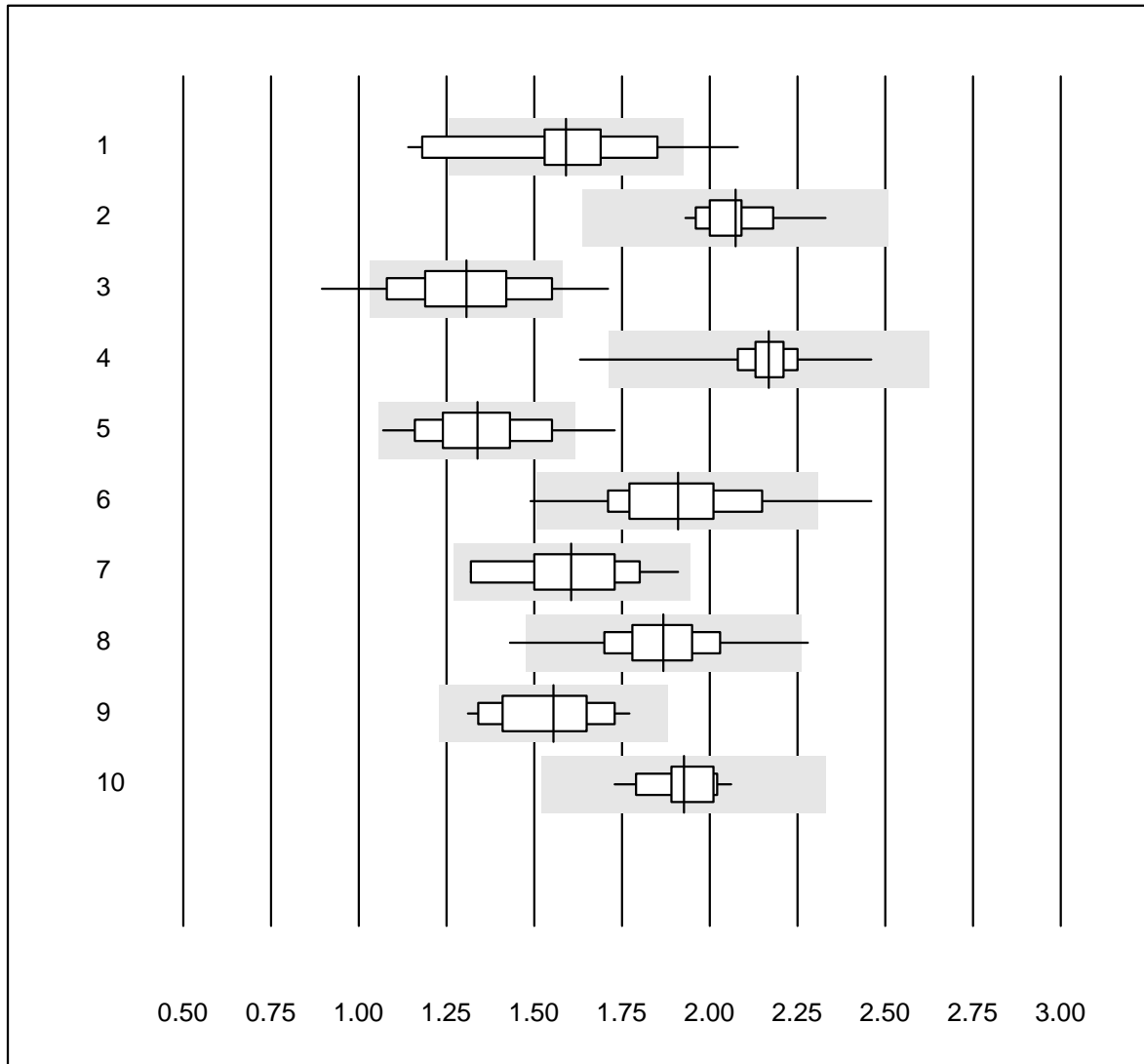


QUALAB tolerance : 10 %

Cholesterol total (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	22	91.0	4.5	4.5	3.98	4.0	e
2	Cobas	15	100.0	0.0	0.0	3.89	2.5	e
3	Reflotron	757	96.5	2.2	1.3	3.96	4.4	e
4	Fuji Dri-Chem	693	99.2	0.4	0.4	3.94	3.6	e
5	Spotchem/Ready	138	93.5	5.8	0.7	4.07	5.2	e
6	Spotchem D-Concept	138	97.2	1.4	1.4	4.10	4.2	e
7	Piccolo	20	100.0	0.0	0.0	3.95	2.2	e
8	Cholestech LDX	188	96.8	1.6	1.6	3.99	4.5	e
9	Abx Mira	20	100.0	0.0	0.0	3.92	4.0	e
10	Hitachi S40/M40	14	100.0	0.0	0.0	3.98	3.1	e

Cholesterin HDL

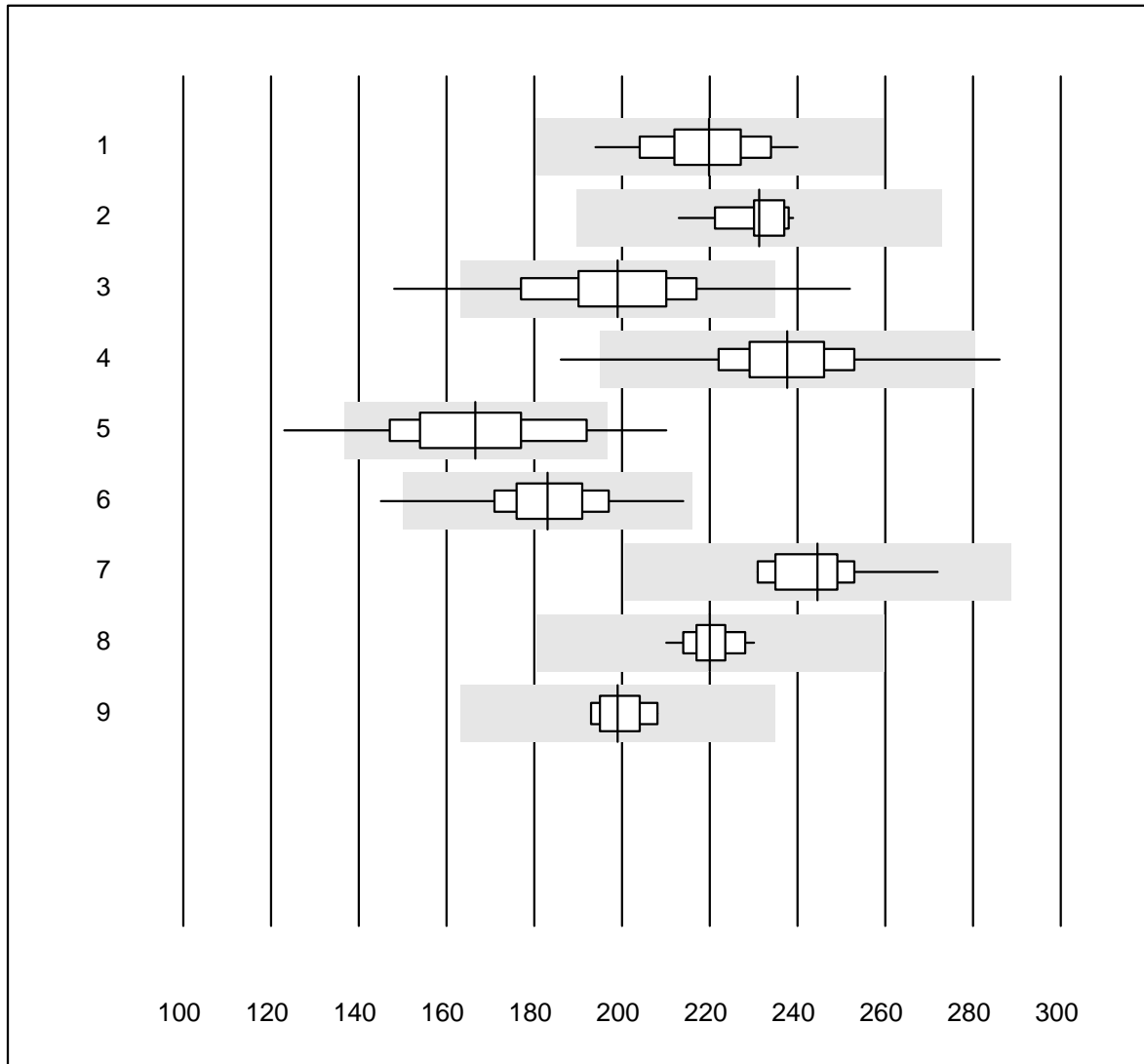


QUALAB tolerance : 21 %

Cholesterin HDL (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Wet chemistry, direc	18	77.7	16.7	5.6	1.59	13.6	e*
2	Cobas	13	100.0	0.0	0.0	2.07	5.0	e
3	Reflotron	566	78.2	13.8	8.0	1.31	13.5	e
4	Fuji Dri-Chem	653	99.8	0.2	0.0	2.17	3.2	e
5	Spotchem/Ready	124	92.8	4.0	3.2	1.34	10.6	e
6	Spotchem D-Concept	134	98.5	1.5	0.0	1.91	9.1	e
7	Piccolo	20	95.0	0.0	5.0	1.61	9.4	e
8	Cholestech LDX	188	98.4	1.1	0.5	1.87	7.0	e
9	Abx Mira	18	100.0	0.0	0.0	1.55	9.6	e
10	Hitachi S40/M40	13	100.0	0.0	0.0	1.93	4.9	e

Creatine kinase

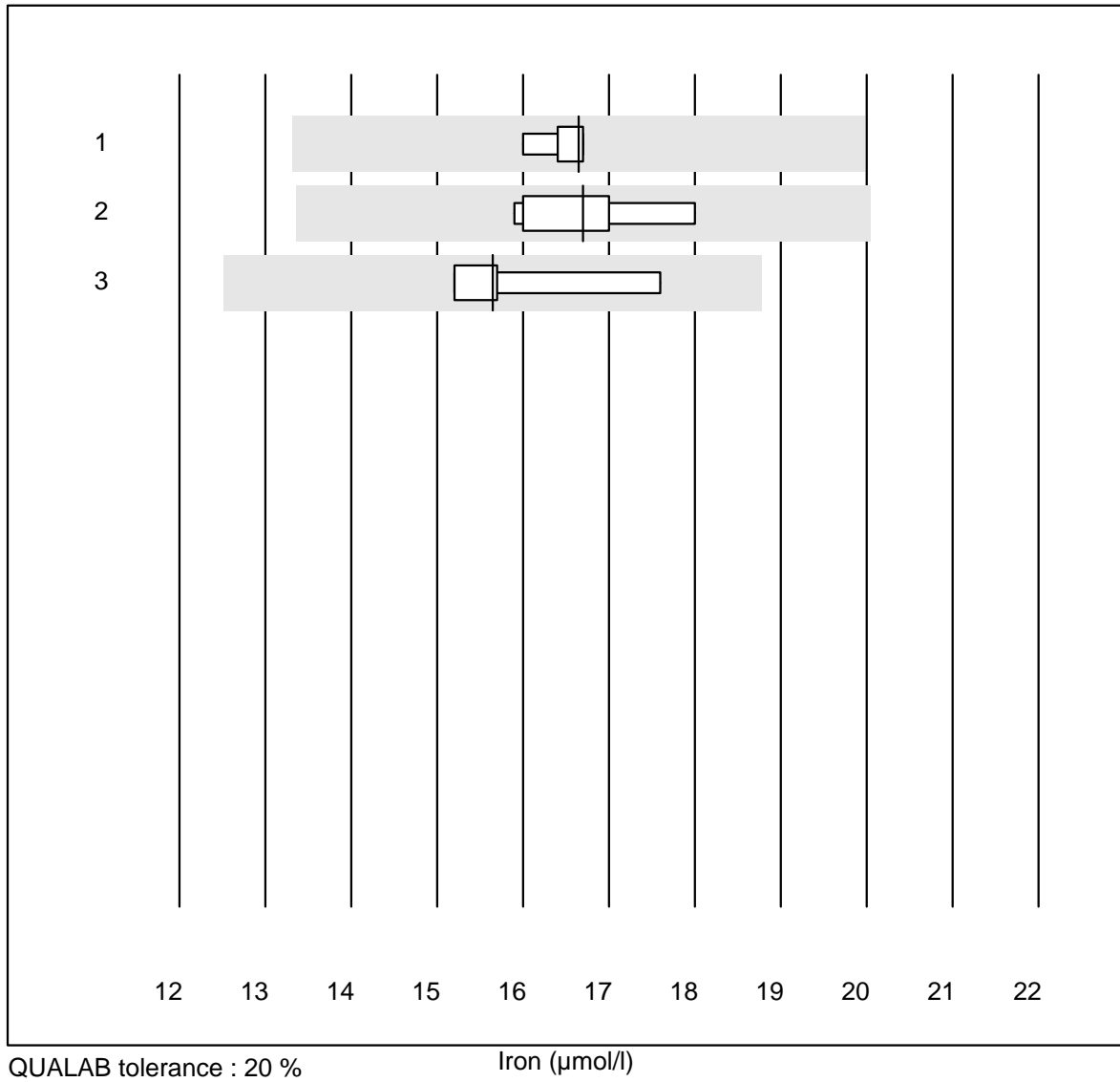


QUALAB tolerance : 18 %

Creatine kinase (U/l)

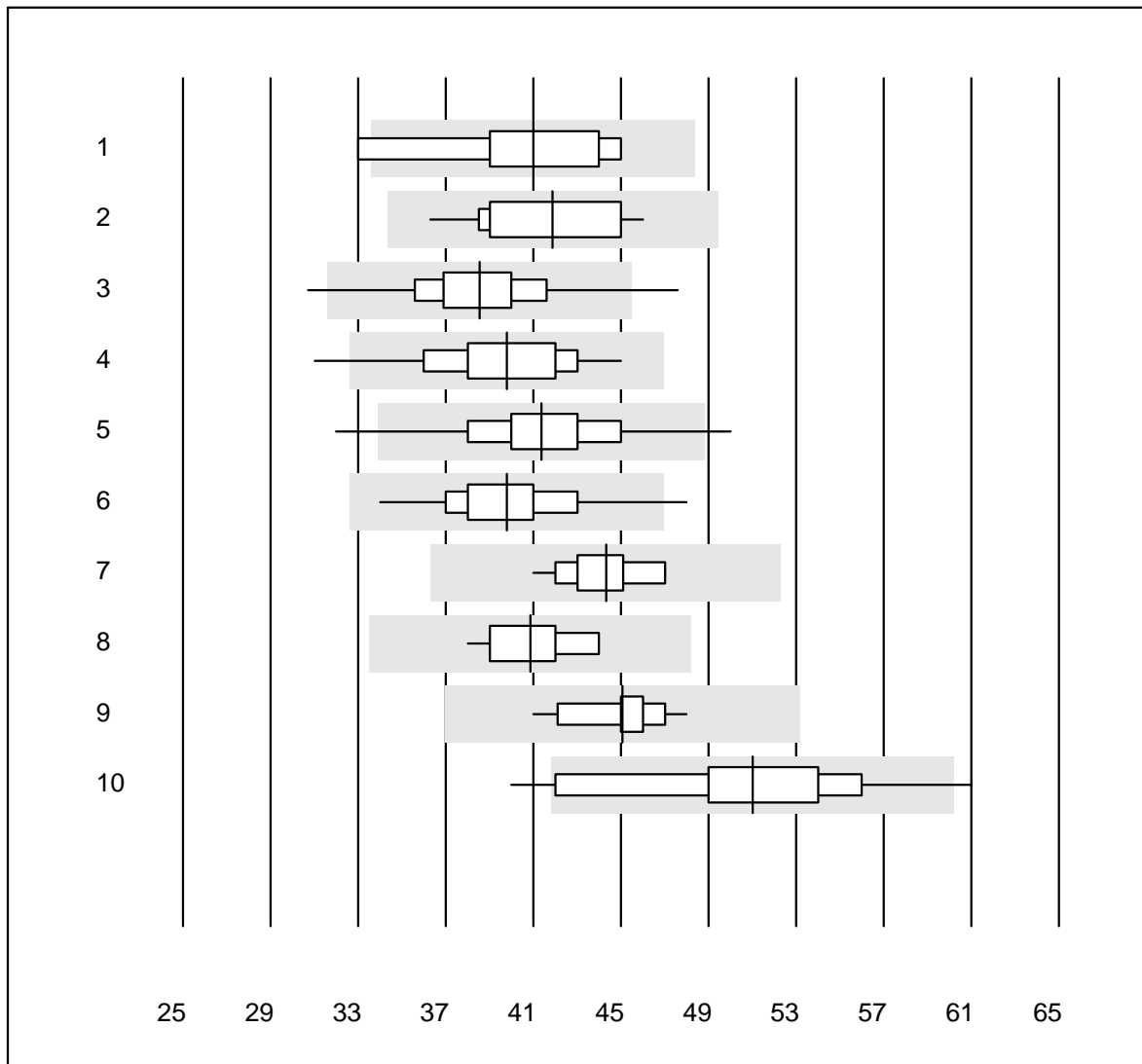
No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 IFCC/SGKC 37'C	20	100.0	0.0	0.0	220	5.2	e
2 Cobas	15	100.0	0.0	0.0	231	2.9	e
3 Reflotron	412	90.8	5.8	3.4	199	8.7	e
4 Fuji Dri-Chem	437	97.9	0.7	1.4	238	5.4	e
5 Spotchem/Ready	52	88.5	9.6	1.9	167	10.8	e
6 Spotchem D-Concept	85	98.8	1.2	0.0	183	6.2	e
7 Piccolo	10	100.0	0.0	0.0	245	5.0	e
8 Abx Mira	16	93.7	0.0	6.3	220	2.4	e
9 Hitachi S40/M40	8	87.5	0.0	12.5	199	2.6	e

Iron



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	8	100.0	0.0	0.0	17	1.5	e
2	Cobas	9	100.0	0.0	0.0	17	4.3	e
3	Abx Mira	4	100.0	0.0	0.0	16	6.7	e*

Gamma-glutamyltransferase

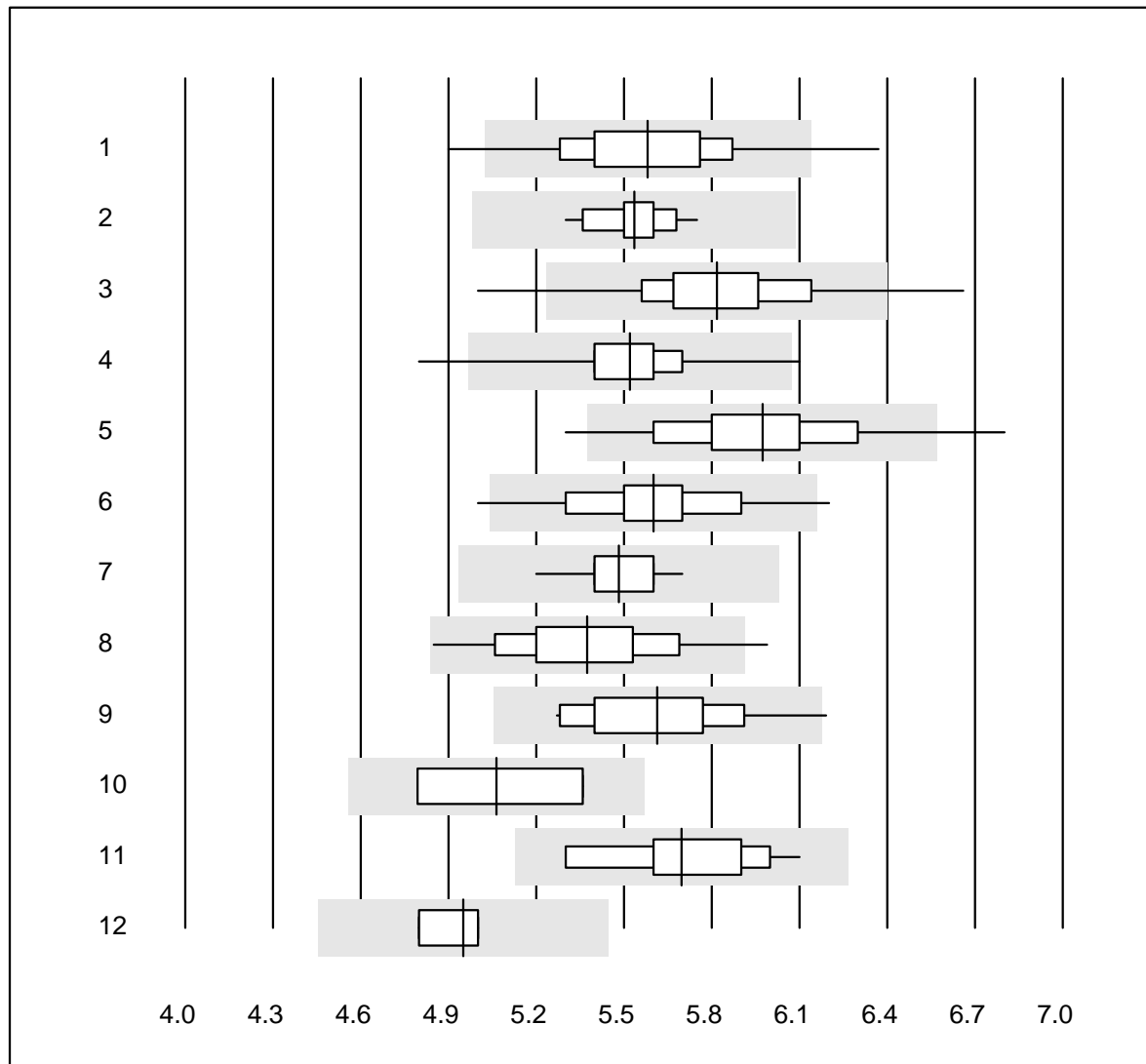


QUALAB tolerance : 18 %

Gamma-glutamyltransferase (U/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 IFCC/SGKC 37°C	7	85.7	14.3	0.0	41	9.8	e*
2 Cobas	16	100.0	0.0	0.0	42	7.3	e
3 Reflotron	867	97.4	1.3	1.3	39	6.5	e
4 Fuji Dri-Chem	734	99.1	0.5	0.4	40	6.3	e
5 Spotchem/Ready	144	93.7	1.4	4.9	41	6.9	e
6 Spotchem D-Concept	150	98.0	0.7	1.3	40	6.3	e
7 DGKC 37°C	13	92.3	0.0	7.7	44	4.2	e
8 Piccolo	27	100.0	0.0	0.0	41	4.2	e
9 Abx Mira	21	100.0	0.0	0.0	45	4.0	e
10 Hitachi S40/M40	16	81.2	12.5	6.3	51	10.1	e*

Glucose

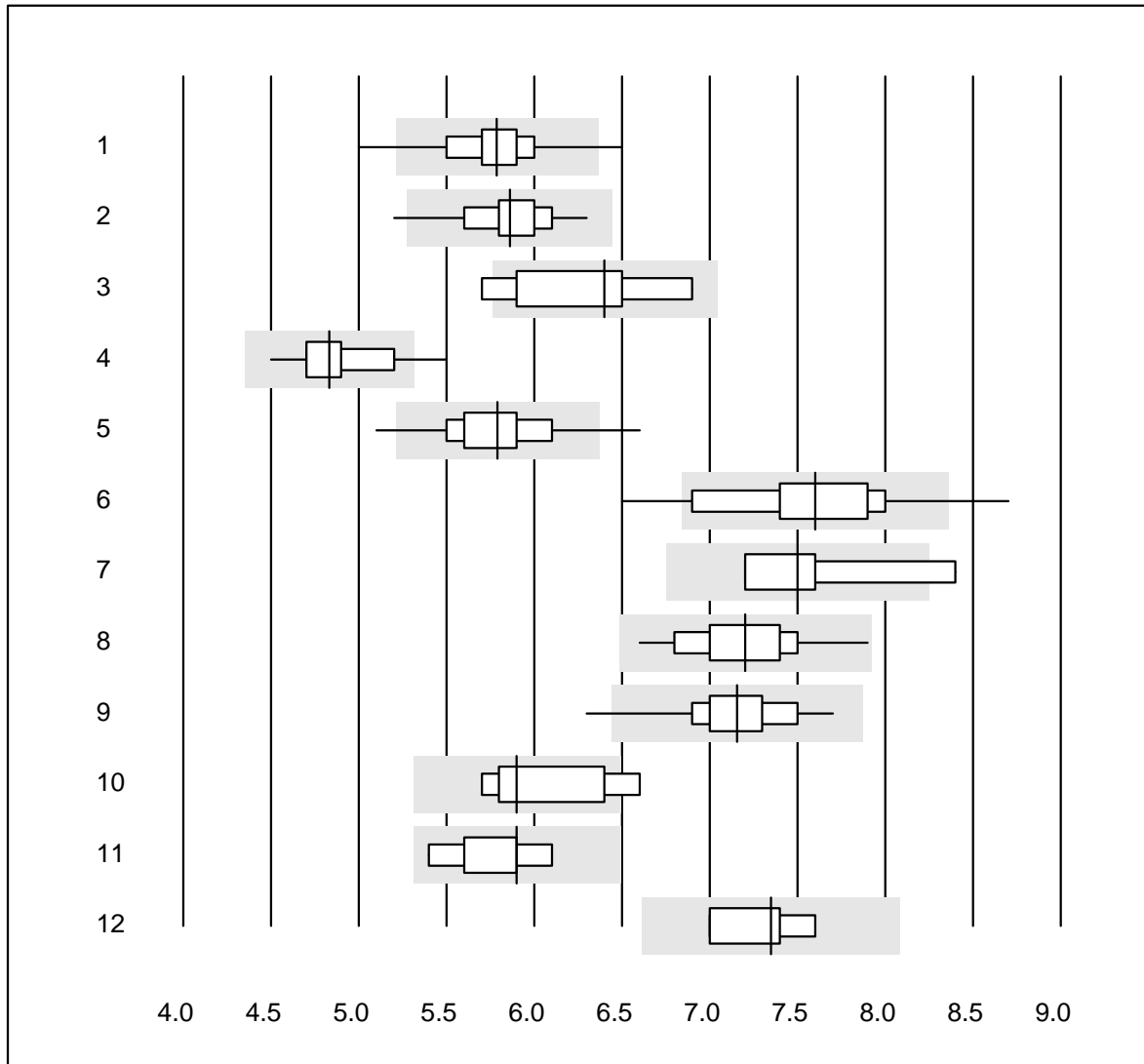


QUALAB tolerance : 10 %

Glucose (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	28	85.7	10.7	3.6	5.6	5.3	e
2	Cobas	16	100.0	0.0	0.0	5.5	2.1	e
3	Reflotron	887	95.8	1.9	2.3	5.8	4.0	e
4	Fuji Dri-Chem	696	98.7	0.7	0.6	5.5	2.6	e
5	Spotchem/Ready	128	93.0	4.7	2.3	6.0	4.7	e
6	Spotchem D-Concept	140	97.9	1.4	0.7	5.6	3.8	e
7	Piccolo	35	100.0	0.0	0.0	5.5	2.1	e
8	Cholestech LDX	152	97.4	1.3	1.3	5.4	4.3	e
9	Abx Mira	21	90.4	4.8	4.8	5.6	4.6	e
10	Lange	4	75.0	0.0	25.0	5.1	6.2	e*
11	Hitachi S40/M40	17	100.0	0.0	0.0	5.7	4.4	e
12	iStat Chem8	4	100.0	0.0	0.0	5.0	1.9	e

Glucose

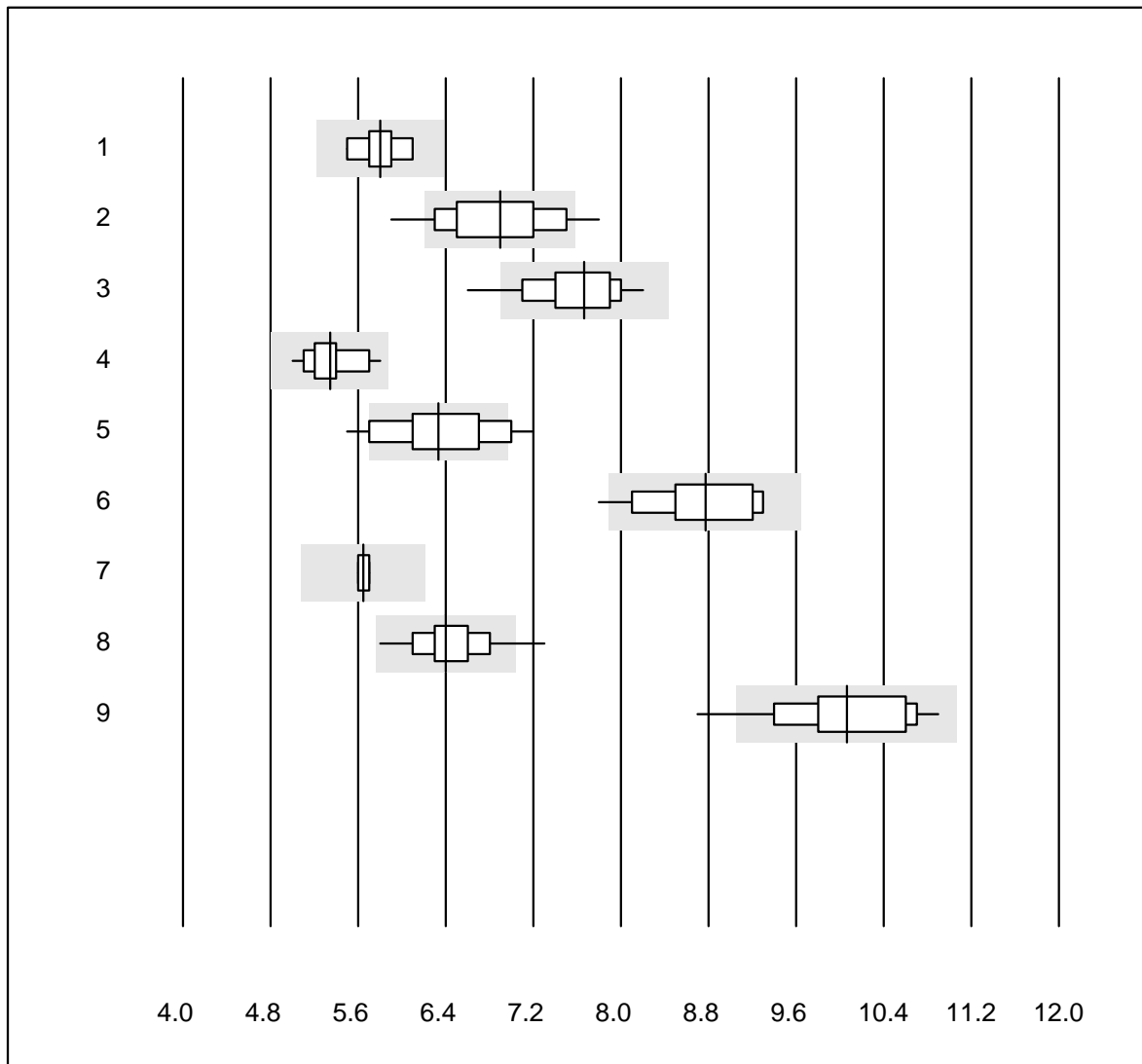


QUALAB tolerance : 10 %

Glucose (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Accu-Chek Aviva	356	94.1	1.7	4.2	5.8	3.4	e
2	Accu-Chek Inform 2	228	99.1	0.9	0.0	5.9	3.0	e
3	Accu-Chek Mobile	5	80.0	20.0	0.0	6.4	7.7	e*
4	Bayer Contour 2 (5s)	50	96.0	2.0	2.0	4.8	3.9	e
5	Bayer Contour XT/NEX	1179	96.7	1.5	1.8	5.8	4.0	e
6	Bayer Breeze 2	17	88.2	11.8	0.0	7.6	6.5	e*
7	Glucocard	9	88.9	11.1	0.0	7.5	5.1	e*
8	Hemocue 201+ P-equiv	80	100.0	0.0	0.0	7.2	4.0	e
9	Hemocue 201RT P-equiv	38	97.4	2.6	0.0	7.2	3.8	e
10	FreeStyle Precision	5	80.0	20.0	0.0	5.9	6.5	e*
11	Freestyle Freedom li	10	90.0	0.0	10.0	5.9	4.1	e*
12	Sanofi BG Star	6	66.7	0.0	33.3	7.4	3.4	e*

Glucose B

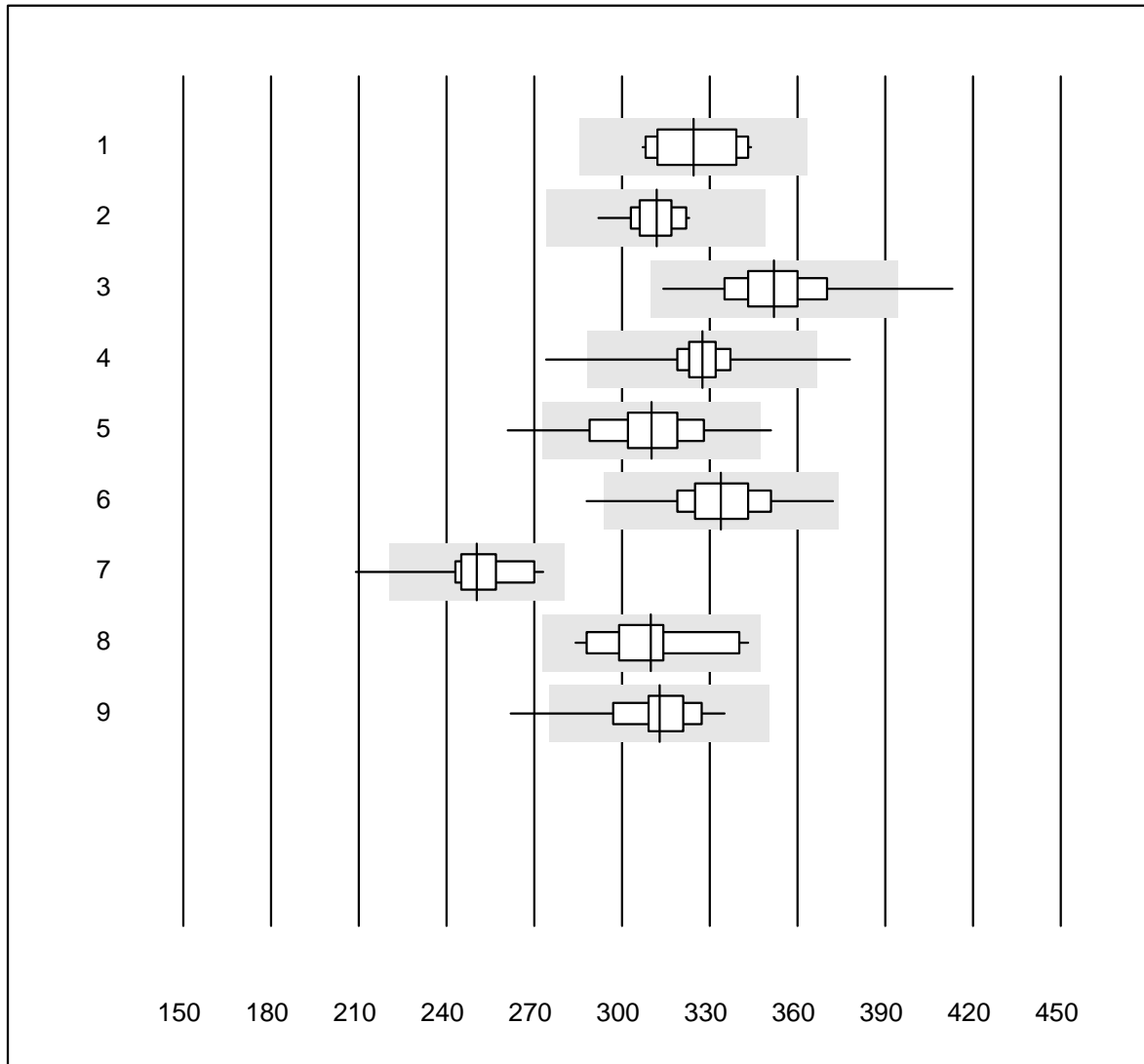


QUALAB tolerance : 10 %

Glucose B (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Bayer Elite	9	100.0	0.0	0.0	5.8	3.6	e
2	Hemocue 201+ (alt)	49	85.8	12.2	2.0	6.9	6.5	e
3	OneTouch Ultra	14	85.8	7.1	7.1	7.7	5.8	e*
4	OneTouch Verio	24	95.8	0.0	4.2	5.3	3.9	e
5	Bayer Contour (15s)	42	73.8	16.7	9.5	6.3	7.1	e
6	Healthpro	14	92.9	7.1	0.0	8.8	5.6	e*
7	Mylife UNIO	6	100.0	0.0	0.0	5.7	1.0	e
8	mylife Pura	60	86.7	3.3	10.0	6.4	4.6	e
9	Omnitest	15	86.6	6.7	6.7	10.1	6.0	e*

Uric Acid

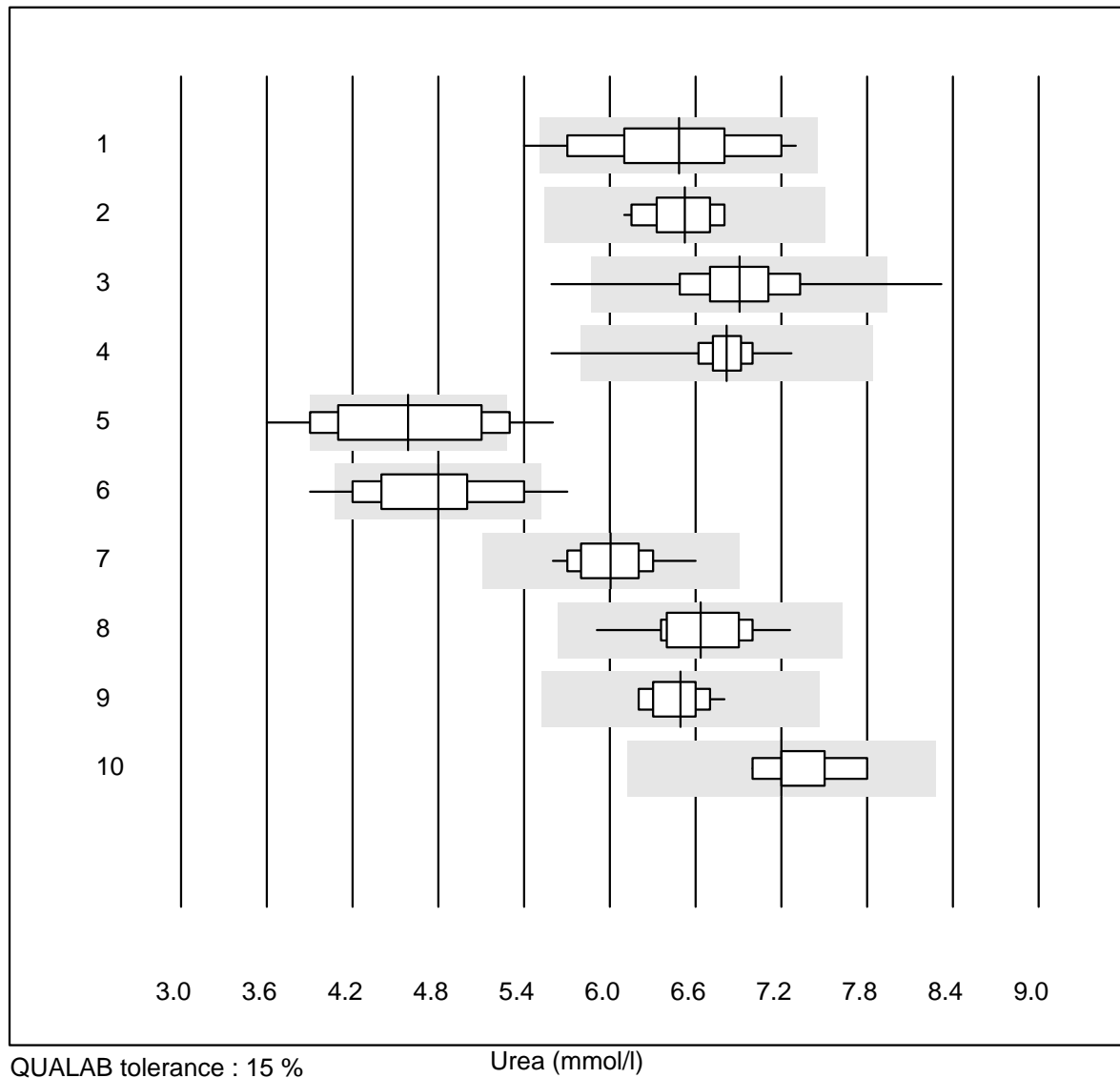


QUALAB tolerance : 12 %

Uric Acid (µmol/l)

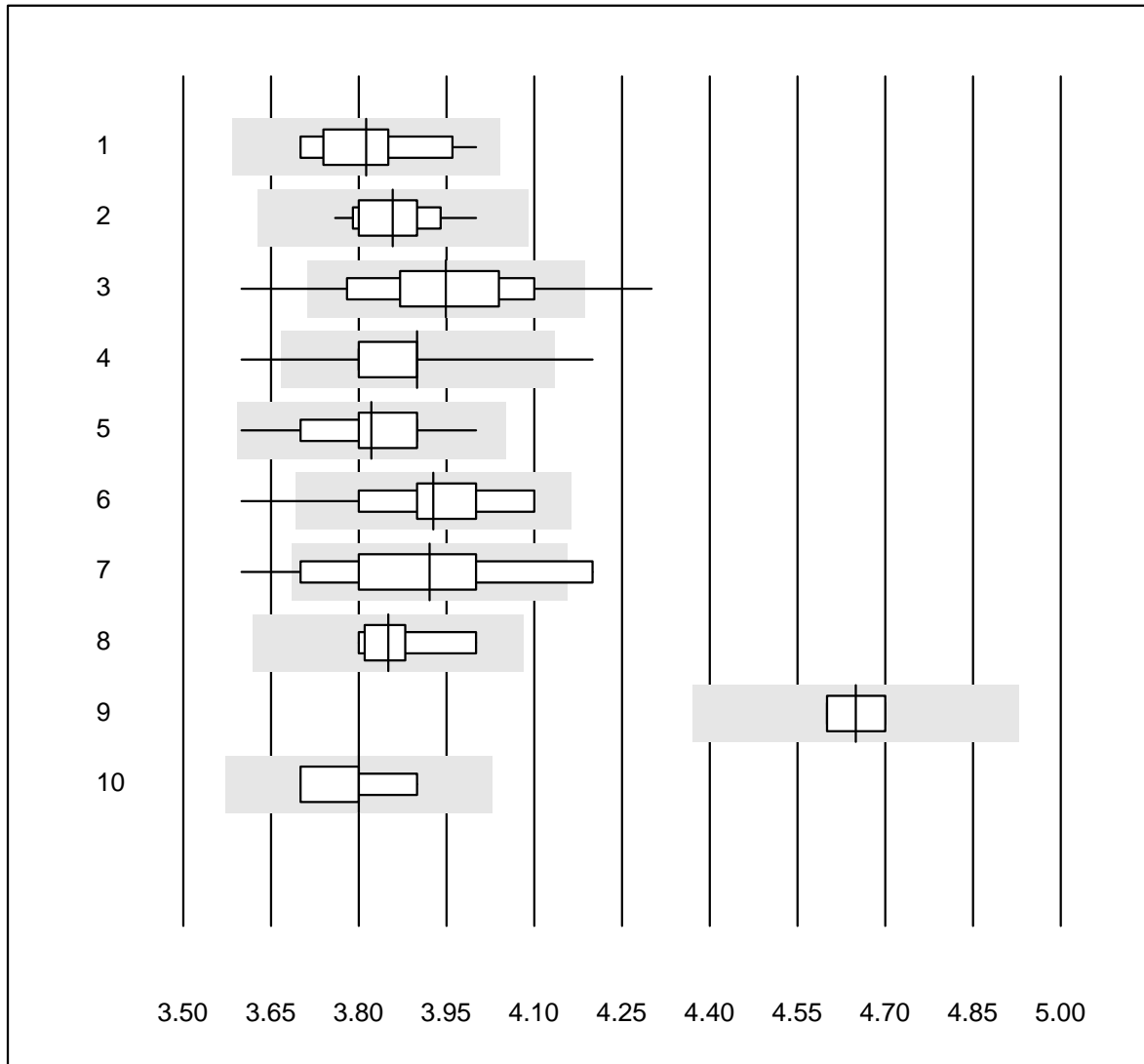
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	23	82.6	0.0	17.4	324	3.8	e
2	Cobas	12	100.0	0.0	0.0	312	2.8	e
3	Reflotron	769	98.6	0.7	0.7	352	4.1	e
4	Fuji Dri-Chem	694	99.0	0.4	0.6	327	2.4	e
5	Spotchem/Ready	120	96.7	2.5	0.8	310	5.0	e
6	Spotchem D-Concept	134	97.8	0.7	1.5	334	4.0	e
7	Piccolo	23	91.4	4.3	4.3	250	5.4	e
8	Abx Mira	19	100.0	0.0	0.0	310	5.5	e
9	Hitachi S40/M40	14	85.8	7.1	7.1	313	5.7	e*

Urea



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	22	90.9	9.1	0.0	6.5	8.1	e
2	Cobas	15	100.0	0.0	0.0	6.5	3.4	e
3	Reflotron	343	94.5	2.3	3.2	6.9	5.5	e
4	Fuji Dri-Chem	430	99.8	0.2	0.0	6.8	2.4	e
5	Spotchem/Ready	80	62.4	26.3	11.3	4.6	12.0	e
6	Spotchem D-Concept	80	87.5	7.5	5.0	4.8	9.4	e
7	Piccolo	33	97.0	0.0	3.0	6.0	4.1	e
8	Abx Mira	11	100.0	0.0	0.0	6.6	5.6	e
9	Hitachi S40/M40	11	90.9	0.0	9.1	6.5	2.9	e
10	iStat Chem8	6	83.3	0.0	16.7	7.2	4.3	e

Potassium

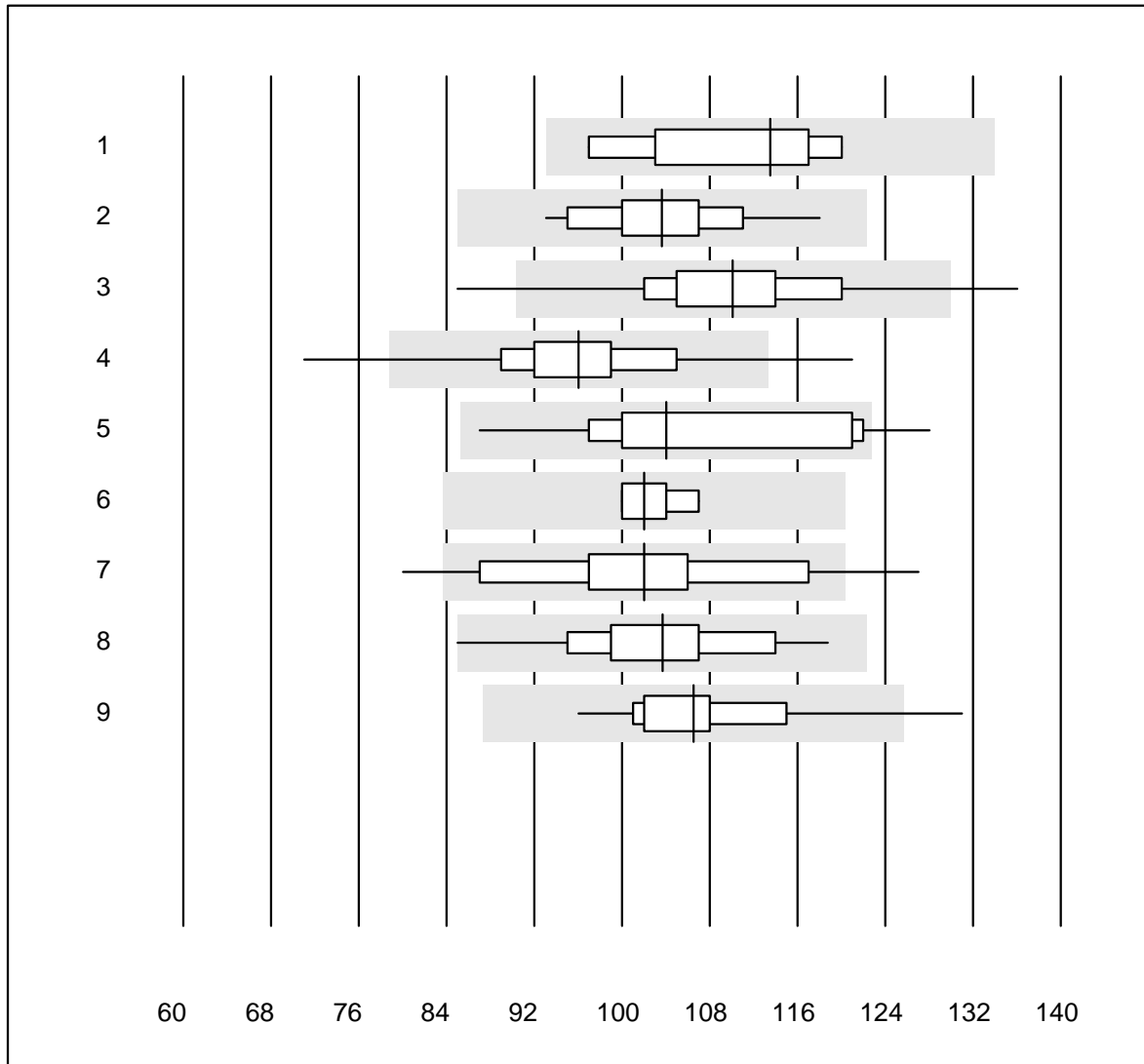


QUALAB tolerance : 6 %

Potassium (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ISE	28	100.0	0.0	0.0	3.81	2.4	e
2	Cobas	16	100.0	0.0	0.0	3.86	1.7	e
3	Reflotron	794	86.9	7.8	5.3	3.95	3.3	e
4	Fuji Dri-Chem	728	96.4	1.5	2.1	3.90	1.9	e
5	Spotchem D-Concept	139	98.6	0.0	1.4	3.82	2.0	e
6	Spotchem EL-SE 1520	116	94.9	1.7	3.4	3.93	2.9	e
7	Piccolo	21	47.7	19.0	33.3	3.92	4.7	e*
8	Abx Mira	5	100.0	0.0	0.0	3.85	2.1	e*
9	Other methods	4	75.0	0.0	25.0	4.65	1.2	e
10	iStat Chem8	7	100.0	0.0	0.0	3.80	1.8	e

Creatinine

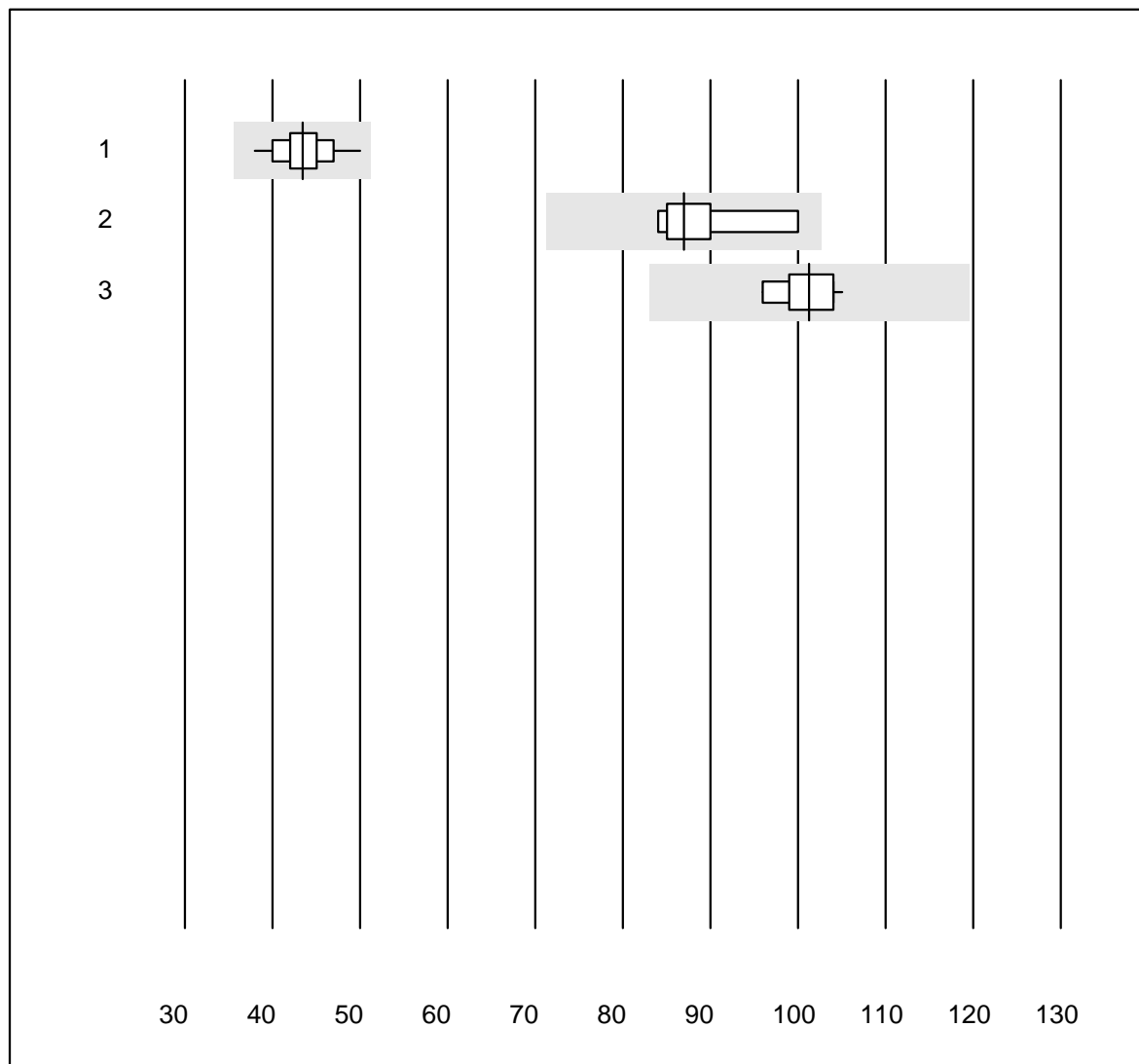


QUALAB tolerance : 18 %

Creatinine (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	8	87.5	0.0	12.5	114	7.8	e*
2	Cobas	17	100.0	0.0	0.0	104	5.7	e
3	Reflotron	980	96.8	2.1	1.1	110	6.5	e
4	Fuji Dri-Chem	761	96.1	2.1	1.8	96	6.9	e
5	Jaffé	11	90.9	9.1	0.0	104	11.3	e*
6	Enzymatic	4	100.0	0.0	0.0	102	3.3	e
7	Piccolo	33	90.9	9.1	0.0	102	10.7	e
8	Abx Mira	21	95.2	4.8	0.0	104	7.7	e
9	Hitachi S40/M40	16	87.4	6.3	6.3	106	7.6	e

Creatinine E

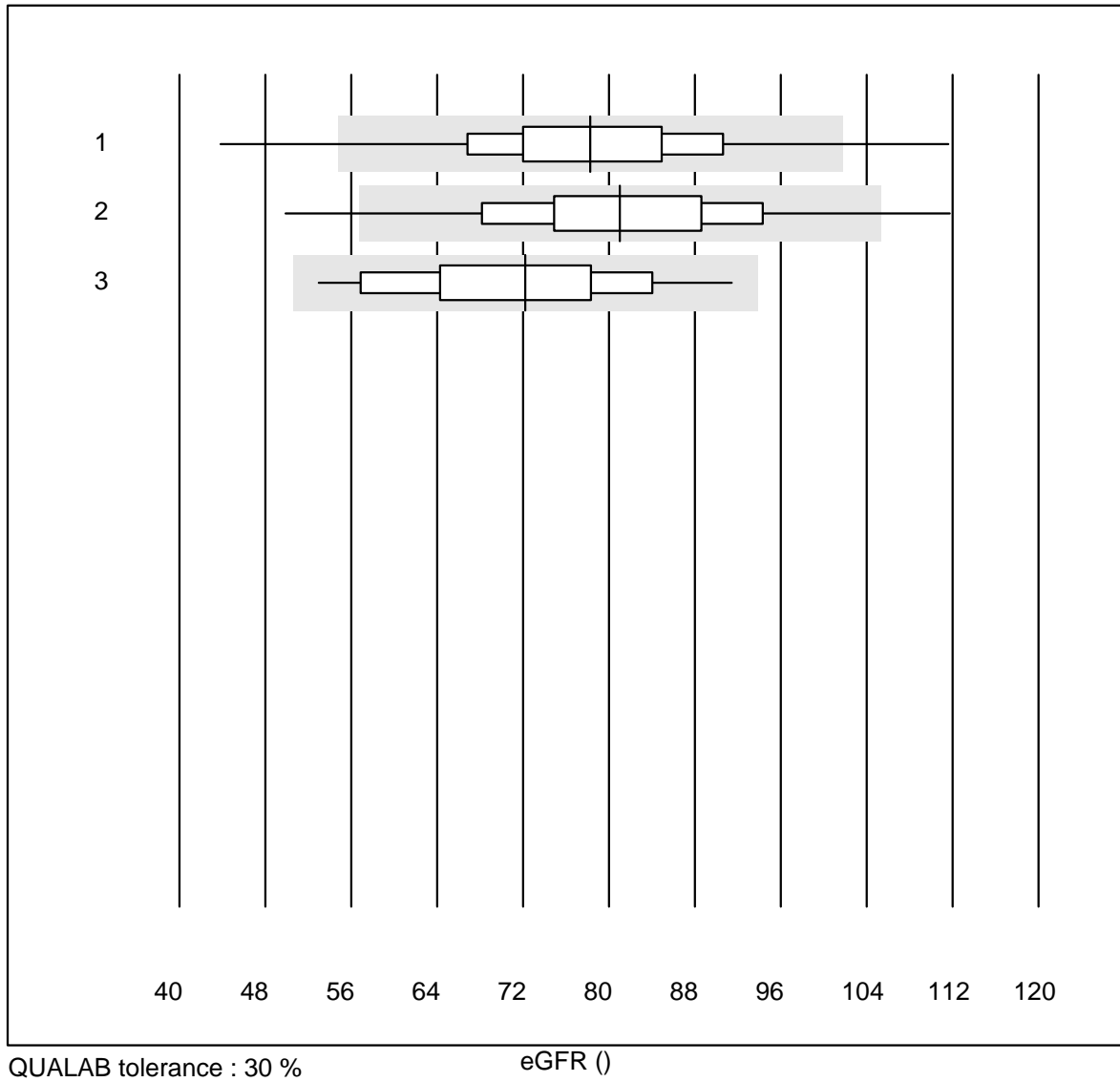


QUALAB tolerance : 18 %

Creatinine E (µmol/l)

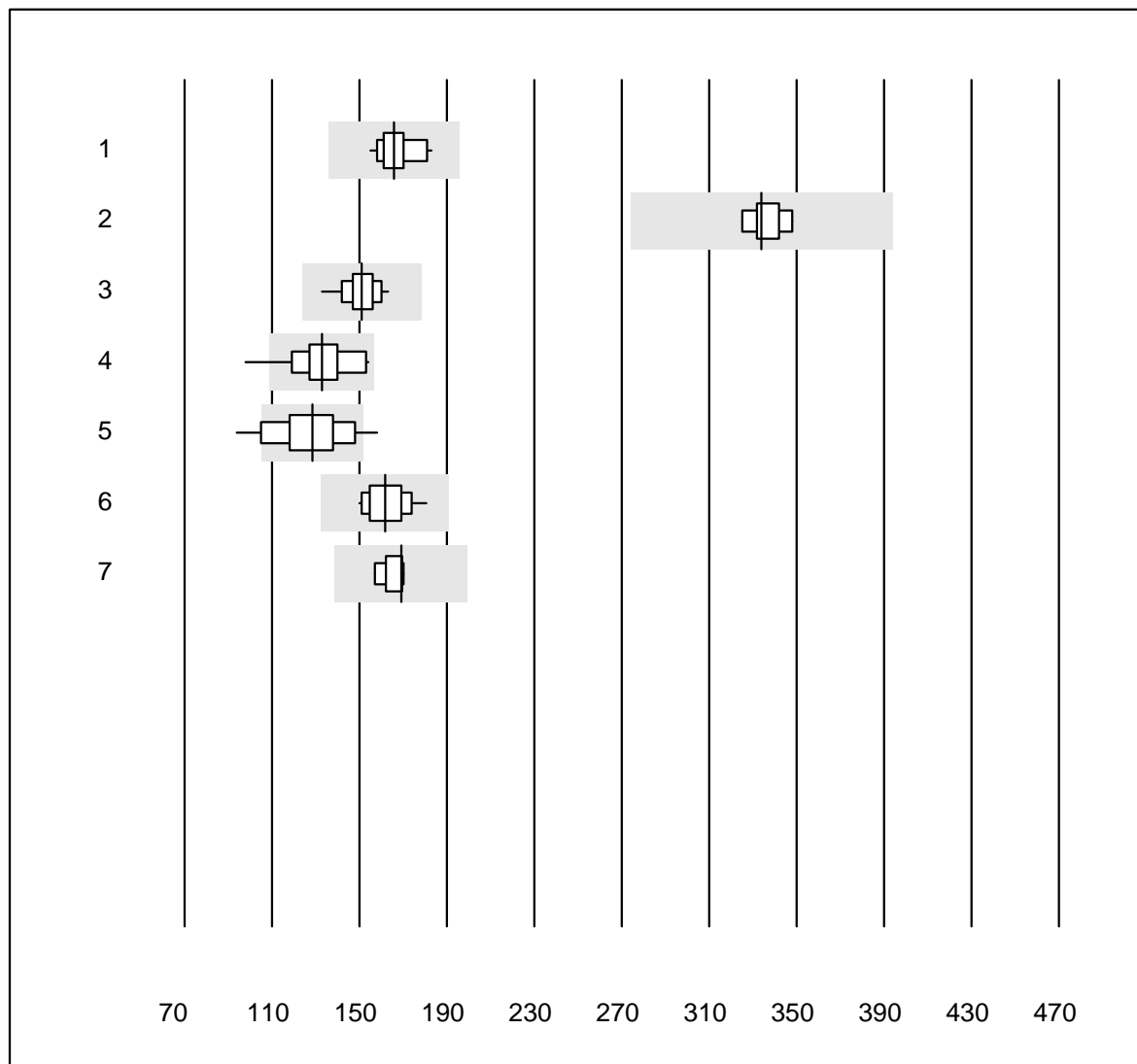
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Statsensor i / Nova	29	93.1	0.0	6.9	43	6.2	e
2	iStat Chem8	9	100.0	0.0	0.0	87	5.9	e
3	ABL700/800 Radiomete	10	100.0	0.0	0.0	101	3.1	e

eGFR



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	CKD-EPI	729	95.5	1.5	3.0	78	12.3	e
2	Cockcroft-Gault	58	94.9	3.4	1.7	81	13.3	e
3	MDRD	25	96.0	0.0	4.0	72	14.5	e

LDH

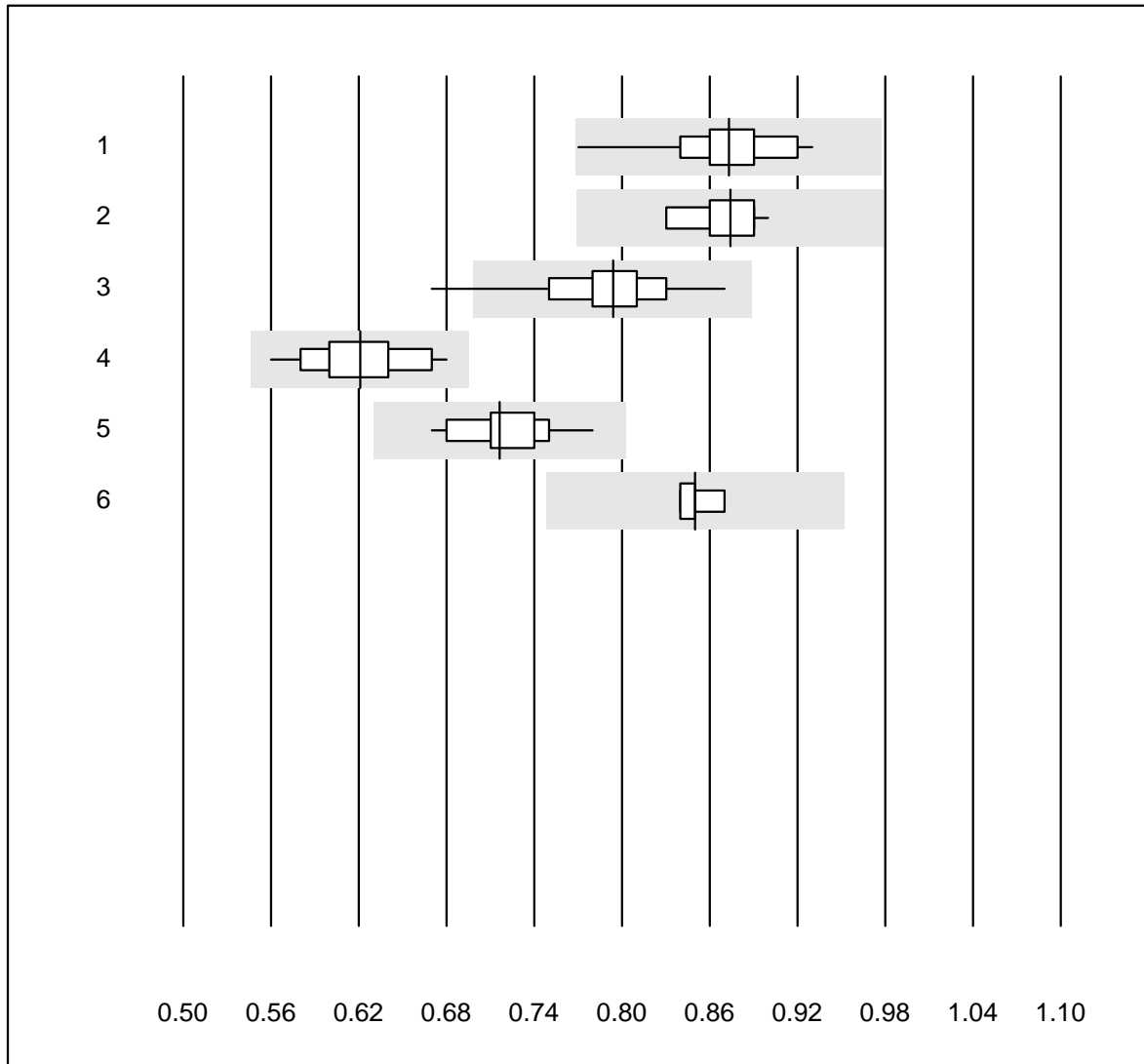


QUALAB tolerance : 18 %

LDH (U/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	IFCC	18	100.0	0.0	0.0	166	4.5	e
2	Cobas	9	100.0	0.0	0.0	334	2.2	e
3	Fuji Dri-Chem	139	100.0	0.0	0.0	151	4.3	e
4	Spotchem/Ready	36	94.4	5.6	0.0	133	9.5	e
5	Spotchem D-Concept	37	81.1	16.2	2.7	129	12.4	e
6	Abx Mira	11	100.0	0.0	0.0	162	5.9	e
7	Hitachi S40/M40	5	100.0	0.0	0.0	169	3.5	e

Magnesium

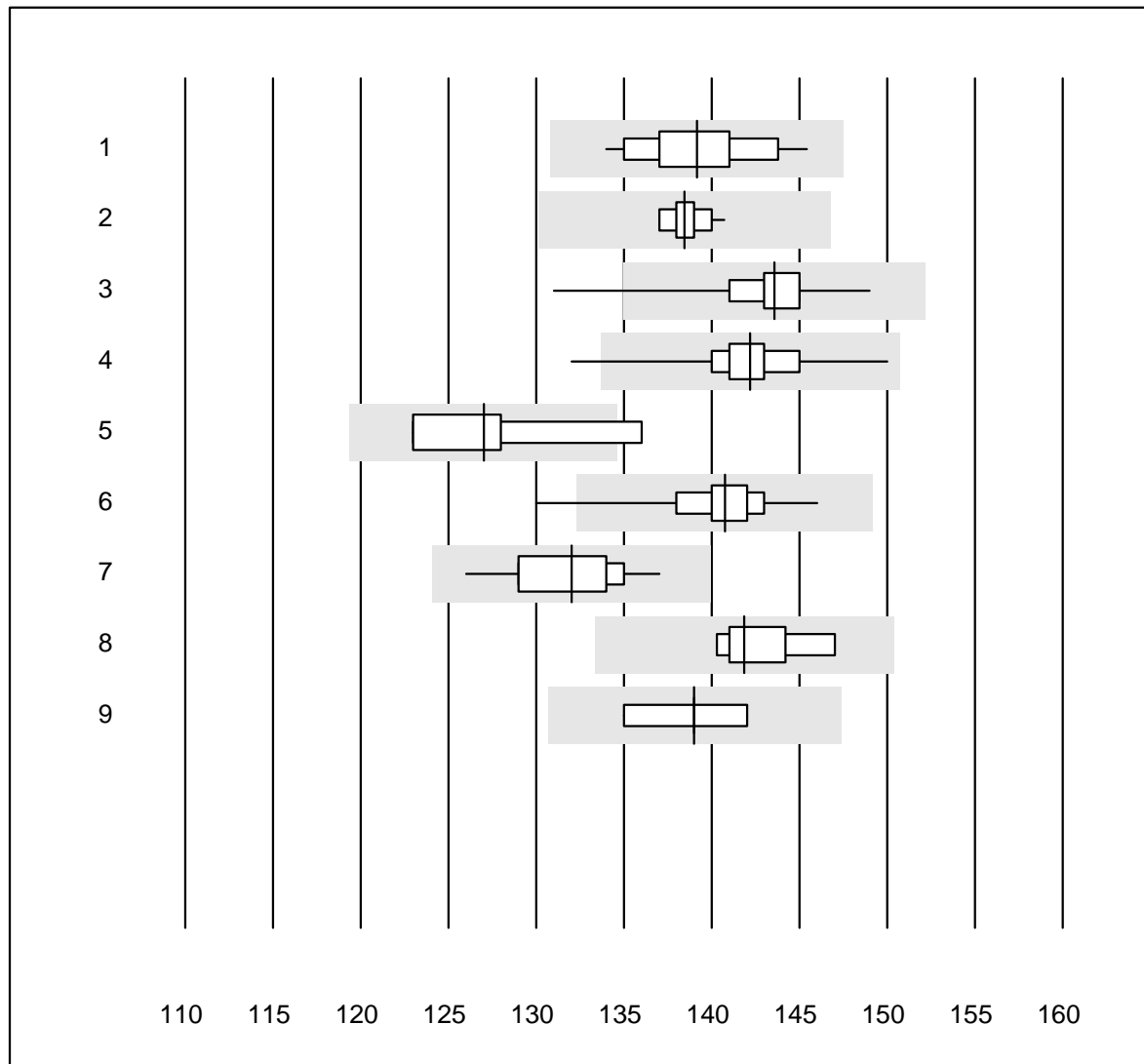


QUALAB tolerance : 12 %

Magnesium (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	15	93.3	0.0	6.7	0.87	4.5	e
2	Cobas	10	100.0	0.0	0.0	0.87	2.3	e
3	Fuji Dri-Chem	114	97.3	0.9	1.8	0.79	4.1	e
4	Spotchem D-Concept	26	96.2	0.0	3.8	0.62	5.4	e
5	Spotchem/Ready	19	100.0	0.0	0.0	0.72	3.8	e
6	Piccolo	4	100.0	0.0	0.0	0.85	1.5	e

Sodium

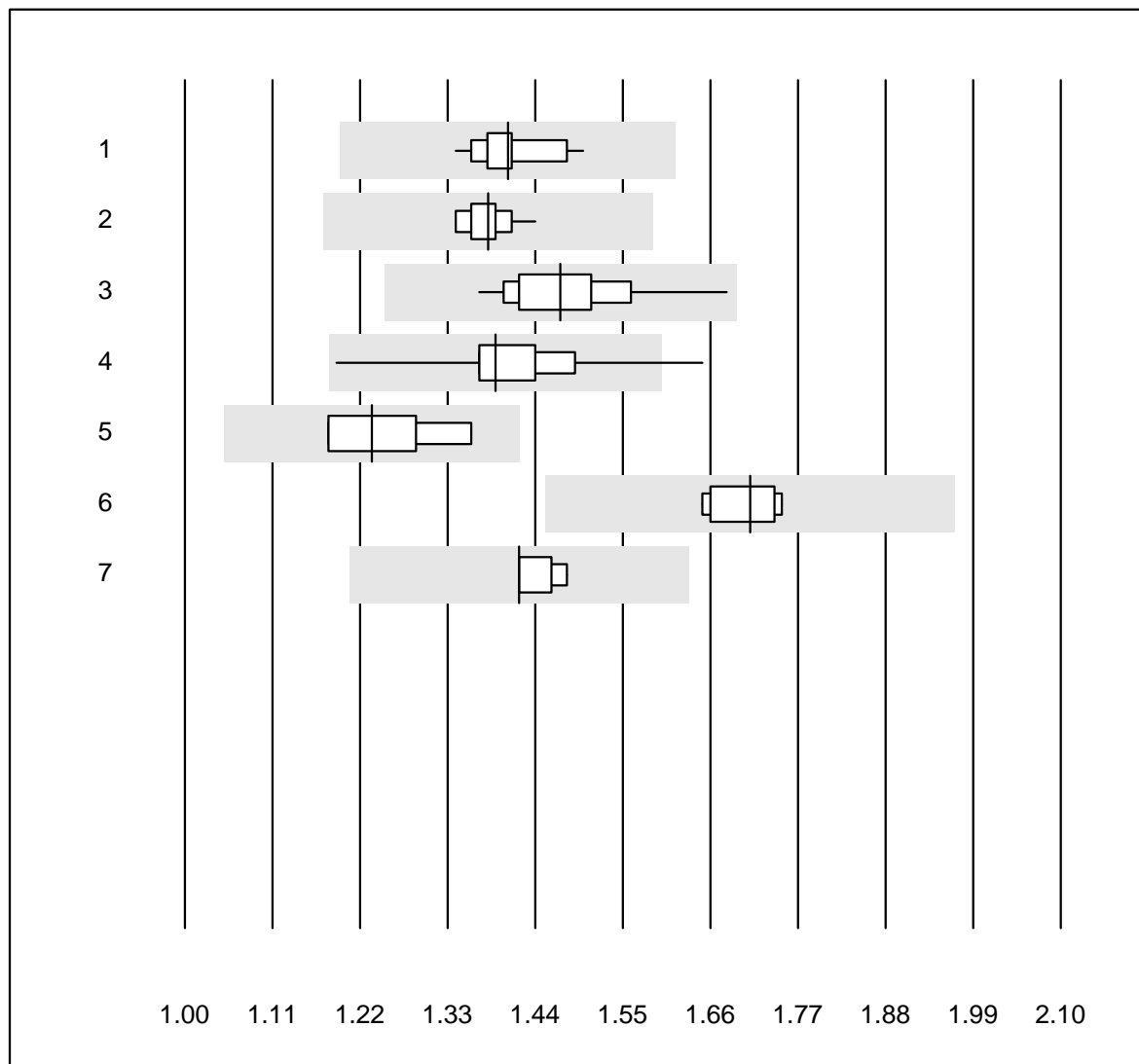


QUALAB tolerance : 6 %

Sodium (mmol/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 ISE	28	100.0	0.0	0.0	139	2.2	e
2 Cobas	15	100.0	0.0	0.0	138	0.8	e
3 Fuji Dri-Chem	671	97.6	0.6	1.8	144	1.5	e
4 Spotchem D-Concept	133	99.2	0.8	0.0	142	1.5	e
5 Standard chemistry	4	75.0	25.0	0.0	127	4.5	a
6 Spotchem EL-SE 1520	115	96.5	2.6	0.9	141	1.9	e
7 Piccolo	22	100.0	0.0	0.0	132	2.2	e
8 Abx Mira	6	100.0	0.0	0.0	142	1.7	e
9 iStat Chem8	6	100.0	0.0	0.0	139	1.6	e

Phosphate

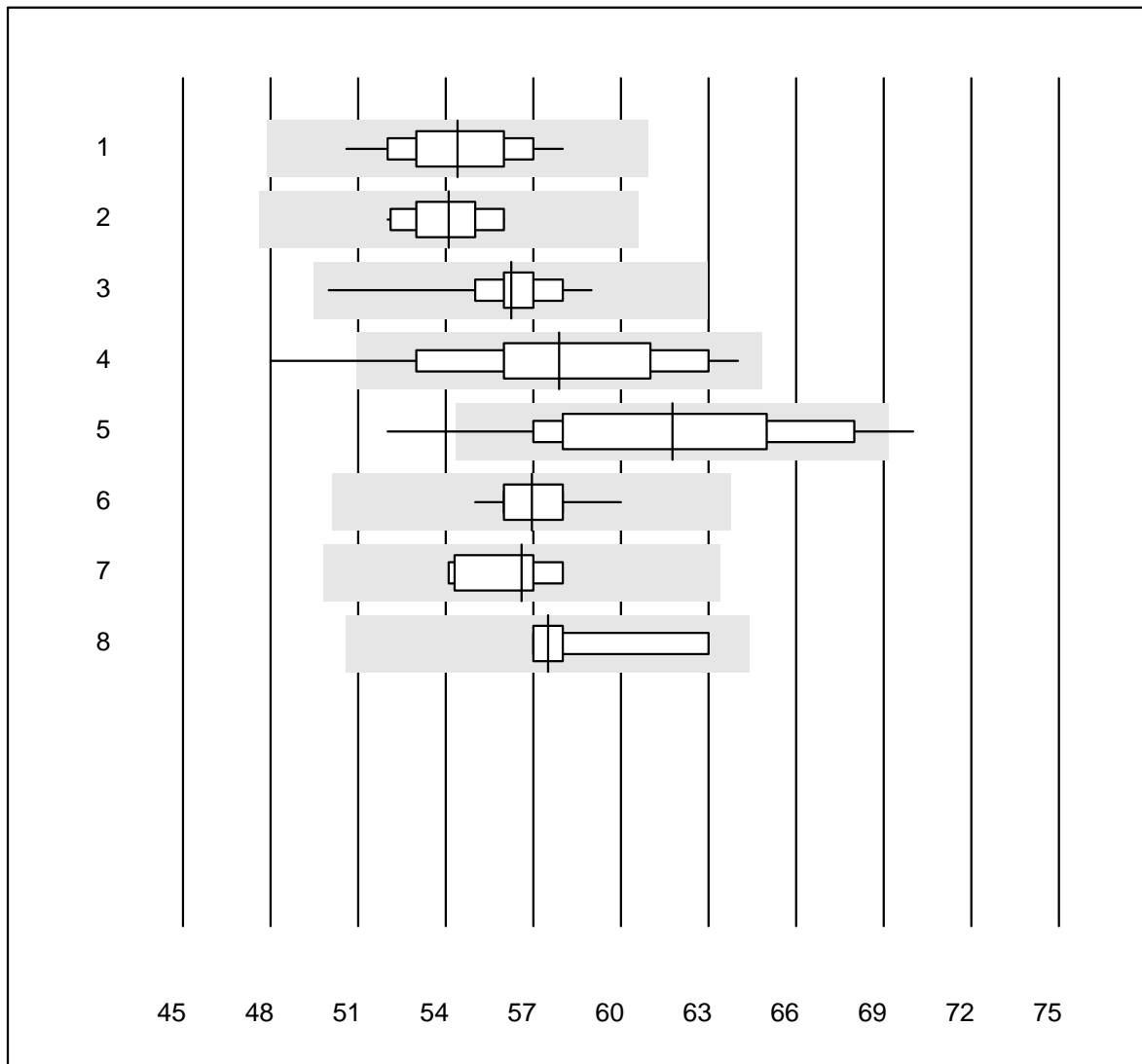


QUALAB tolerance : 15 %

Phosphate (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	16	100.0	0.0	0.0	1.4	2.9	e
2	Cobas	10	100.0	0.0	0.0	1.4	2.1	e
3	Fuji Dri-Chem	76	94.7	0.0	5.3	1.5	4.5	e
4	Spotchem D-Concept	13	84.6	7.7	7.7	1.4	7.5	e*
5	Spotchem/Ready	8	100.0	0.0	0.0	1.2	5.8	e*
6	Piccolo	5	100.0	0.0	0.0	1.7	2.7	e
7	Abx Mira	5	100.0	0.0	0.0	1.4	2.0	e

Protein total

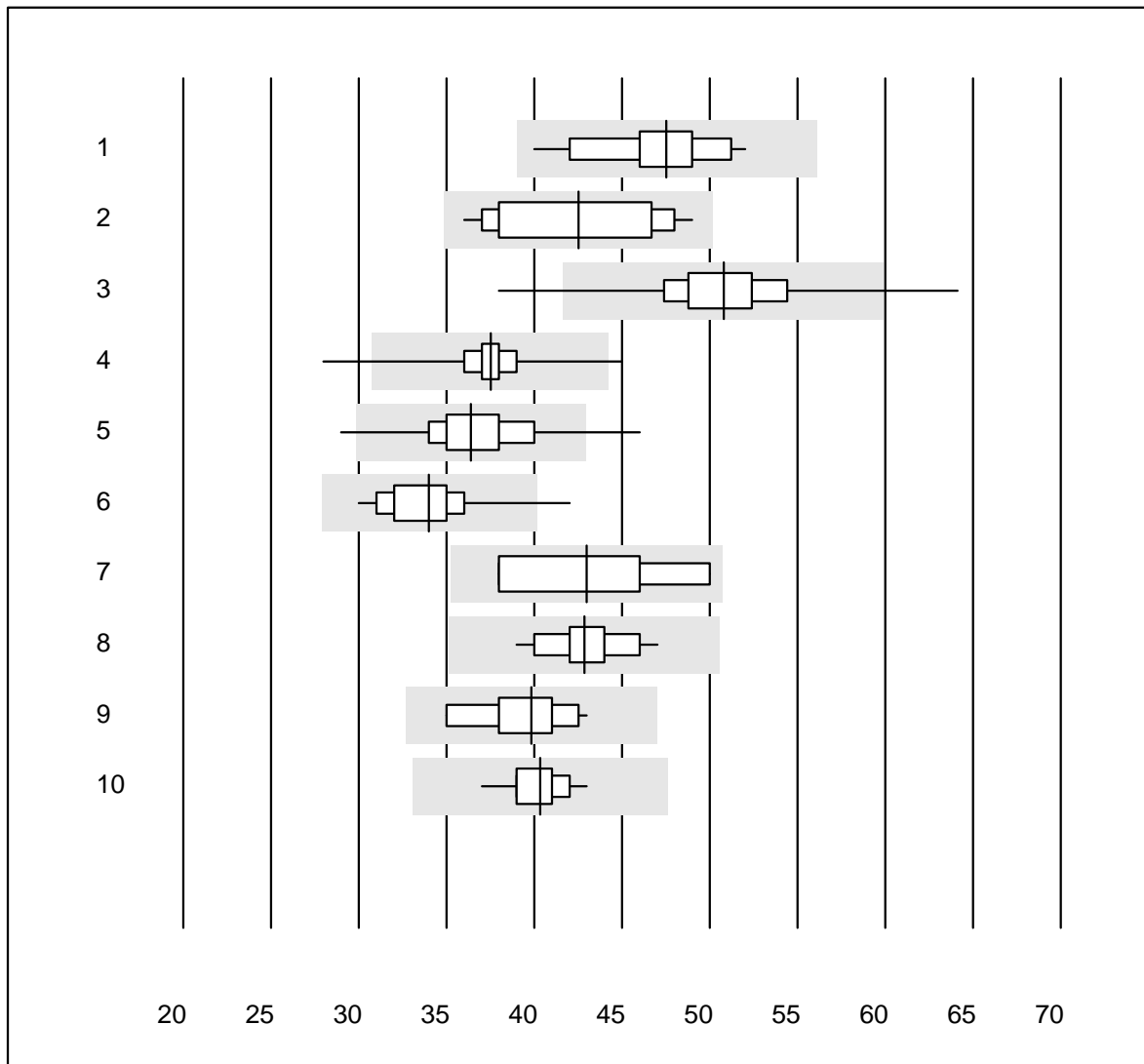


QUALAB tolerance : 12 %

Protein total (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	22	100.0	0.0	0.0	54.4	3.4	e
2	Cobas	11	100.0	0.0	0.0	54.1	2.5	e
3	Fuji Dri-Chem	192	99.5	0.0	0.5	56.2	2.4	e
4	Spotchem/Ready	39	92.3	7.7	0.0	57.9	6.9	e
5	Spotchem D-Concept	62	90.4	4.8	4.8	61.8	6.7	e
6	Piccolo	23	100.0	0.0	0.0	57.0	2.2	e
7	Abx Mira	7	85.7	0.0	14.3	56.6	2.8	e
8	Hitachi S40/M40	5	100.0	0.0	0.0	57.5	4.4	e*

Aspartate aminotransferase

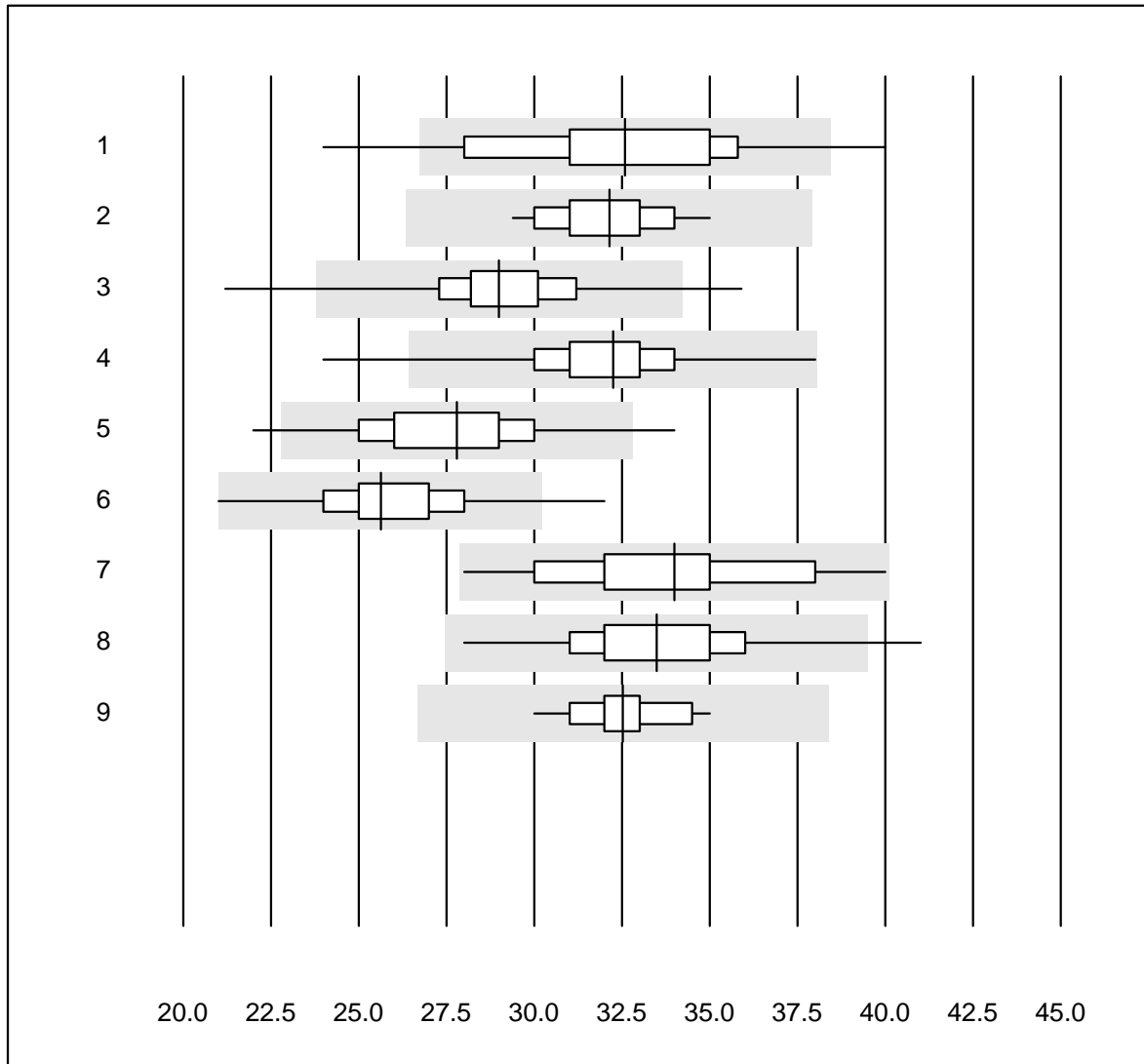


QUALAB tolerance : 18 %

Aspartate aminotransferase (U/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	IFCC with Pyridox 37	19	94.7	0.0	5.3	48	6.4	e
2	Cobas	16	100.0	0.0	0.0	43	11.3	e*
3	Reflotron	883	98.0	1.2	0.8	51	6.0	e
4	Fuji Dri-Chem	734	99.3	0.4	0.3	38	4.0	e
5	Spotchem/Ready	151	95.3	4.0	0.7	36	7.2	e
6	Spotchem D-Concept	144	98.6	0.7	0.7	34	6.0	e
7	IFCC with Pyridox 37	4	100.0	0.0	0.0	43	12.7	e*
8	Piccolo	32	100.0	0.0	0.0	43	4.7	e
9	Abx Mira	21	95.2	0.0	4.8	40	5.7	e
10	Hitachi S40/M40	18	100.0	0.0	0.0	40	3.6	e

Alanine aminotransferase

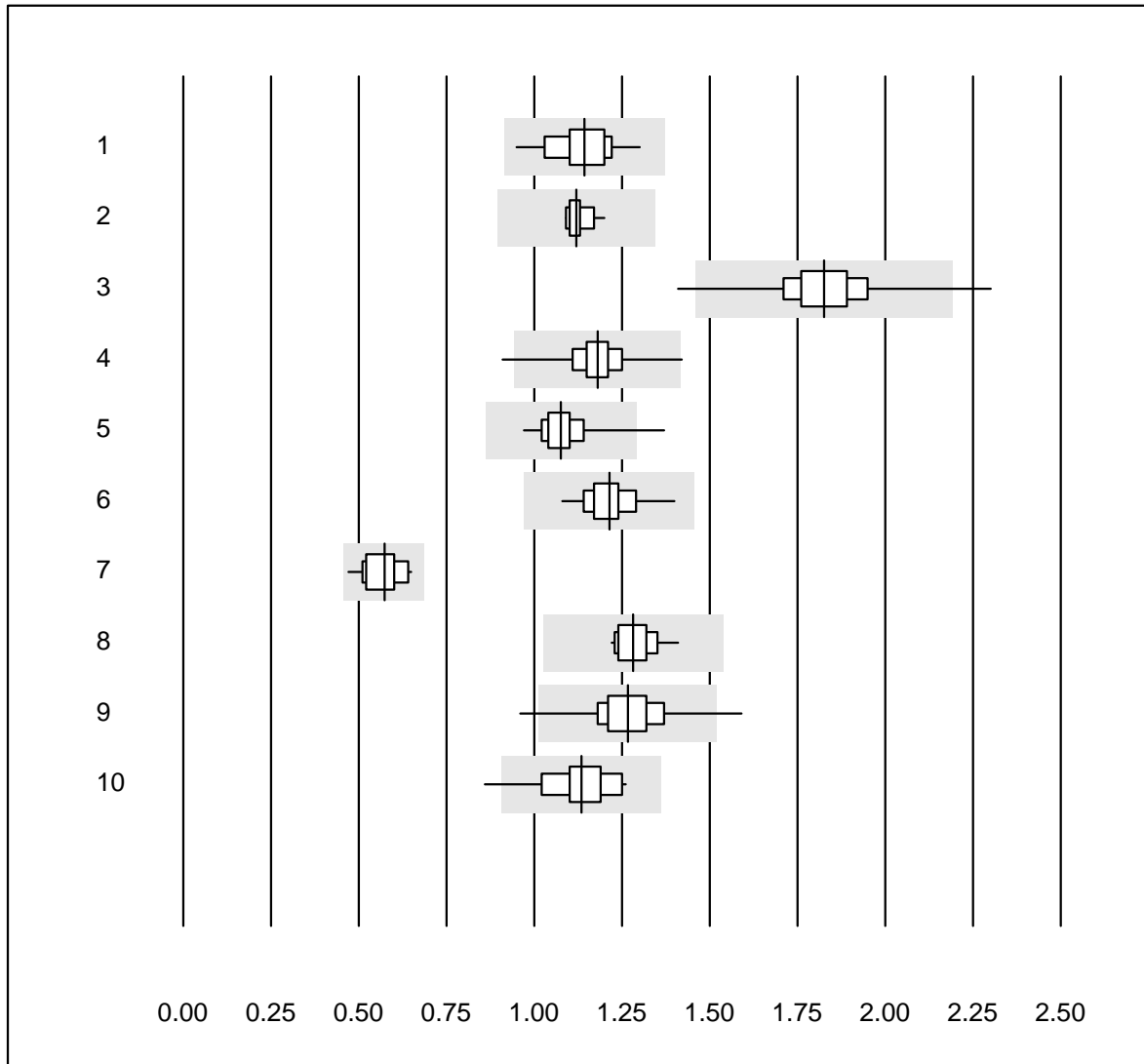


QUALAB tolerance : 18 %

Alanine aminotransferase (U/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	IFCC with Pyridox 37	20	90.0	10.0	0.0	33	10.6	e*
2	Cobas	17	100.0	0.0	0.0	32	4.9	e
3	Reflotron	916	98.0	0.9	1.1	29	5.7	e
4	Fuji Dri-Chem	750	98.3	0.5	1.2	32	5.6	e
5	Spotchem/Ready	153	95.4	2.6	2.0	28	7.4	e
6	Spotchem D-Concept	149	96.0	2.7	1.3	26	6.7	e
7	Piccolo	33	100.0	0.0	0.0	34	8.0	e
8	Abx Mira	21	95.2	4.8	0.0	33	7.9	e
9	Hitachi S40/M40	17	94.1	0.0	5.9	33	4.0	e

Triglycerides

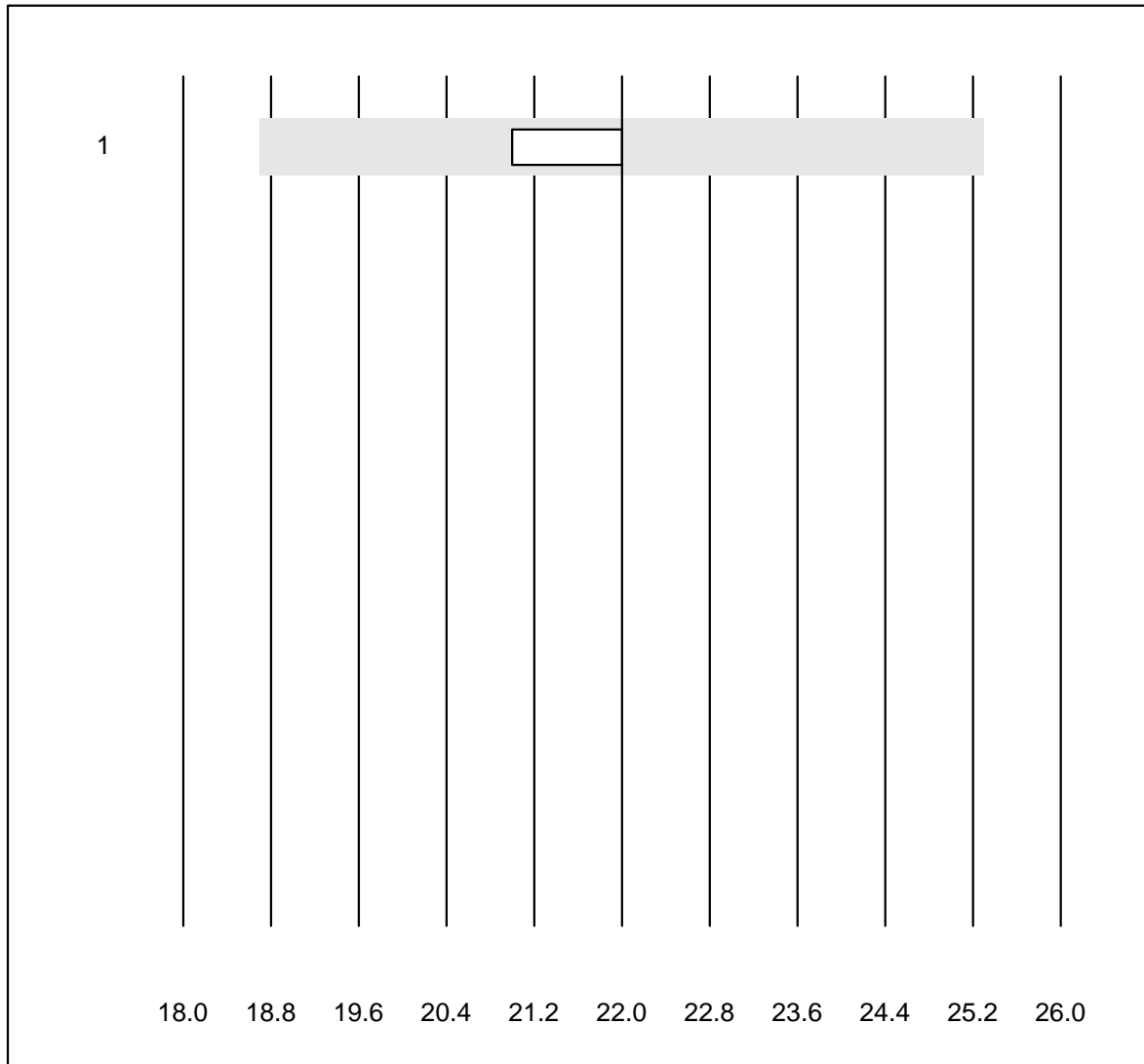


QUALAB tolerance : 20 %

Triglycerides (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	21	90.5	0.0	9.5	1.14	6.8	e
2	Cobas	16	100.0	0.0	0.0	1.12	2.9	e
3	Reflotron	657	97.1	1.4	1.5	1.83	6.0	e
4	Fuji Dri-Chem	670	98.3	0.4	1.3	1.18	5.2	e
5	Spotchem/Ready	132	97.7	0.8	1.5	1.08	5.7	e
6	Spotchem D-Concept	133	100.0	0.0	0.0	1.21	4.8	e
7	Hitachi S40/M40	13	92.3	0.0	7.7	0.57	9.7	e*
8	Piccolo	18	100.0	0.0	0.0	1.28	3.8	e
9	Cholestech LDX	188	98.4	1.1	0.5	1.27	6.3	e
10	Abx Mira	19	94.7	5.3	0.0	1.13	8.2	e

Bicarbonat

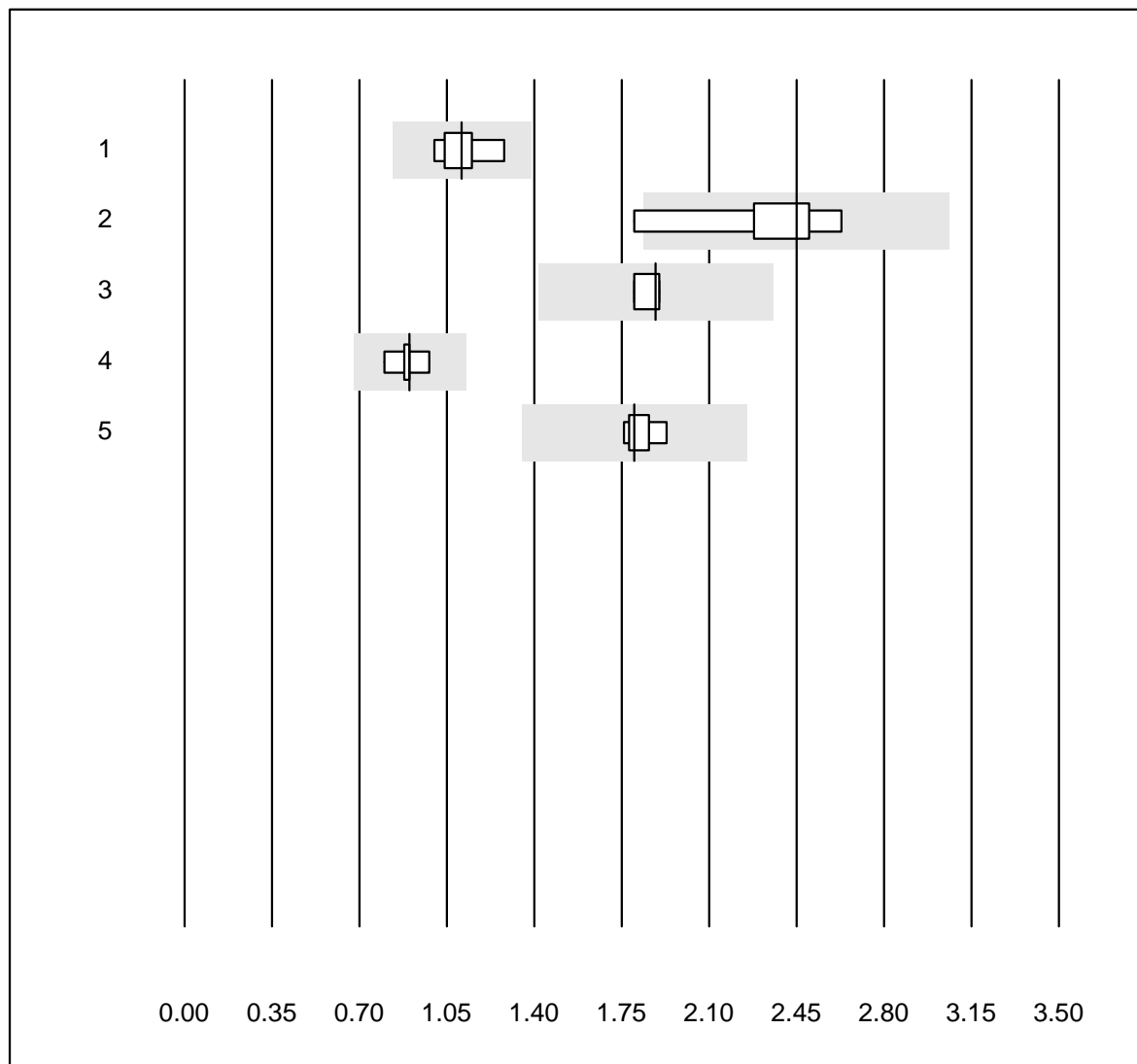


QUALAB tolerance : 15 %

Bicarbonat (mmol/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Piccolo	5	100.0	0.0	0.0	22	2.5	e

LDL Cholesterin

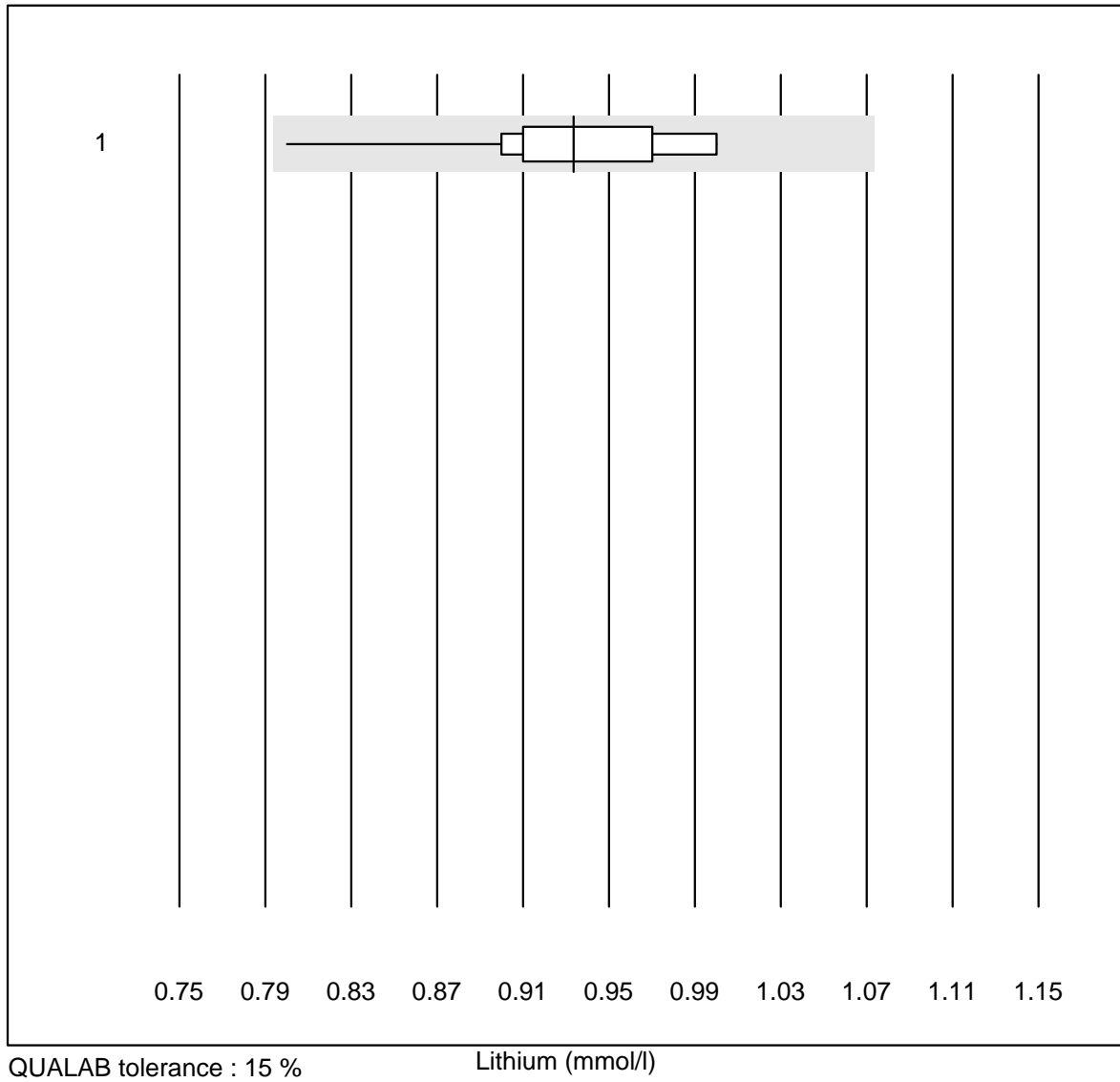


QUALAB tolerance : 25 %

LDL Cholesterin (mmol/l)

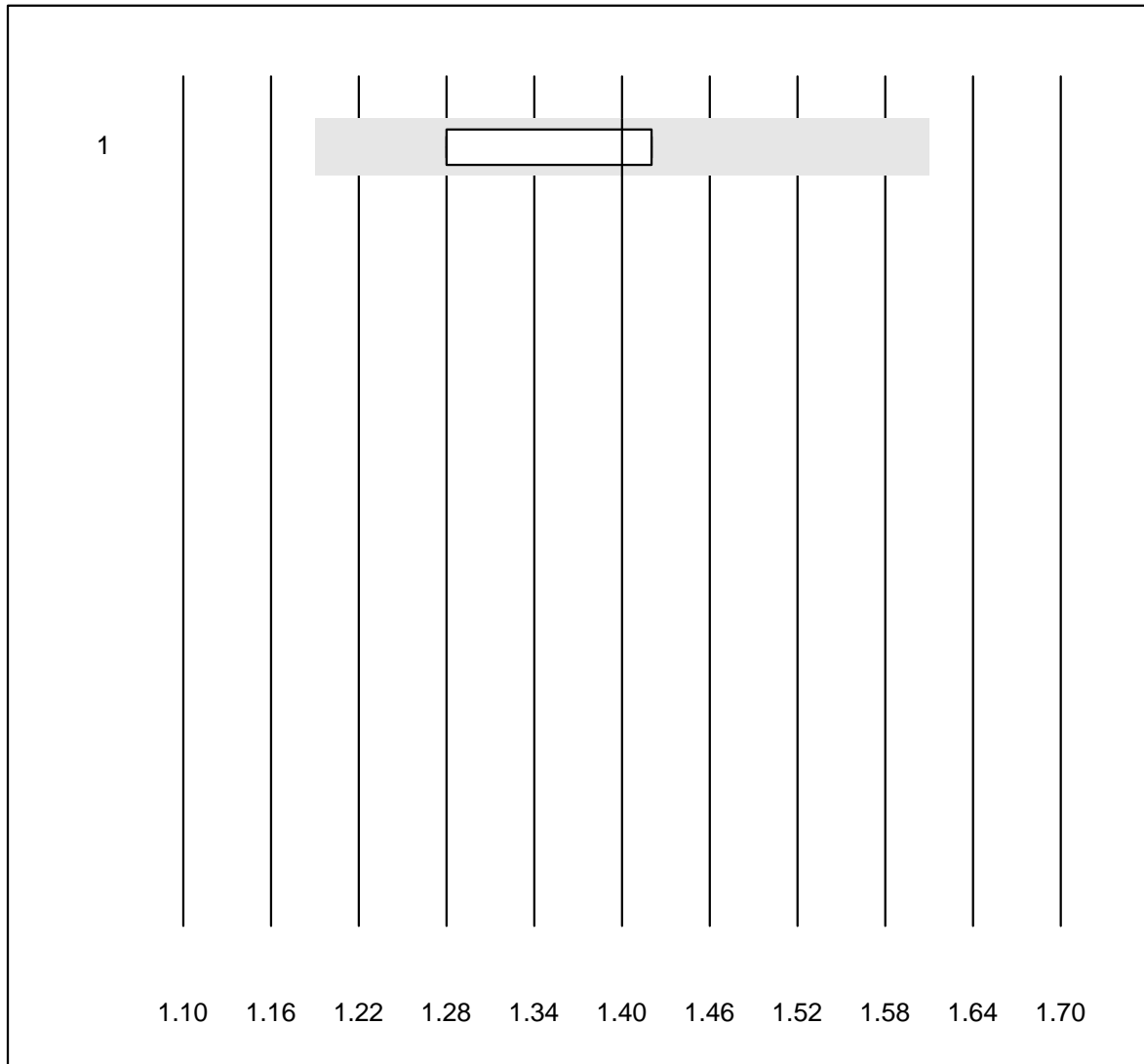
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Mira	6	100.0	0.0	0.0	1.1	8.7	e*
2	Standard chemistry	6	66.6	16.7	16.7	2.5	13.7	e*
3	Roche, Cobas	4	100.0	0.0	0.0	1.9	2.5	e
4	Hitachi S40/M40	5	100.0	0.0	0.0	0.9	7.2	e*
5	Autolyser/DiaSys	5	100.0	0.0	0.0	1.8	3.8	e

Lithium



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	14	100.0	0.0	0.0	0.93	5.5	e

Lactate

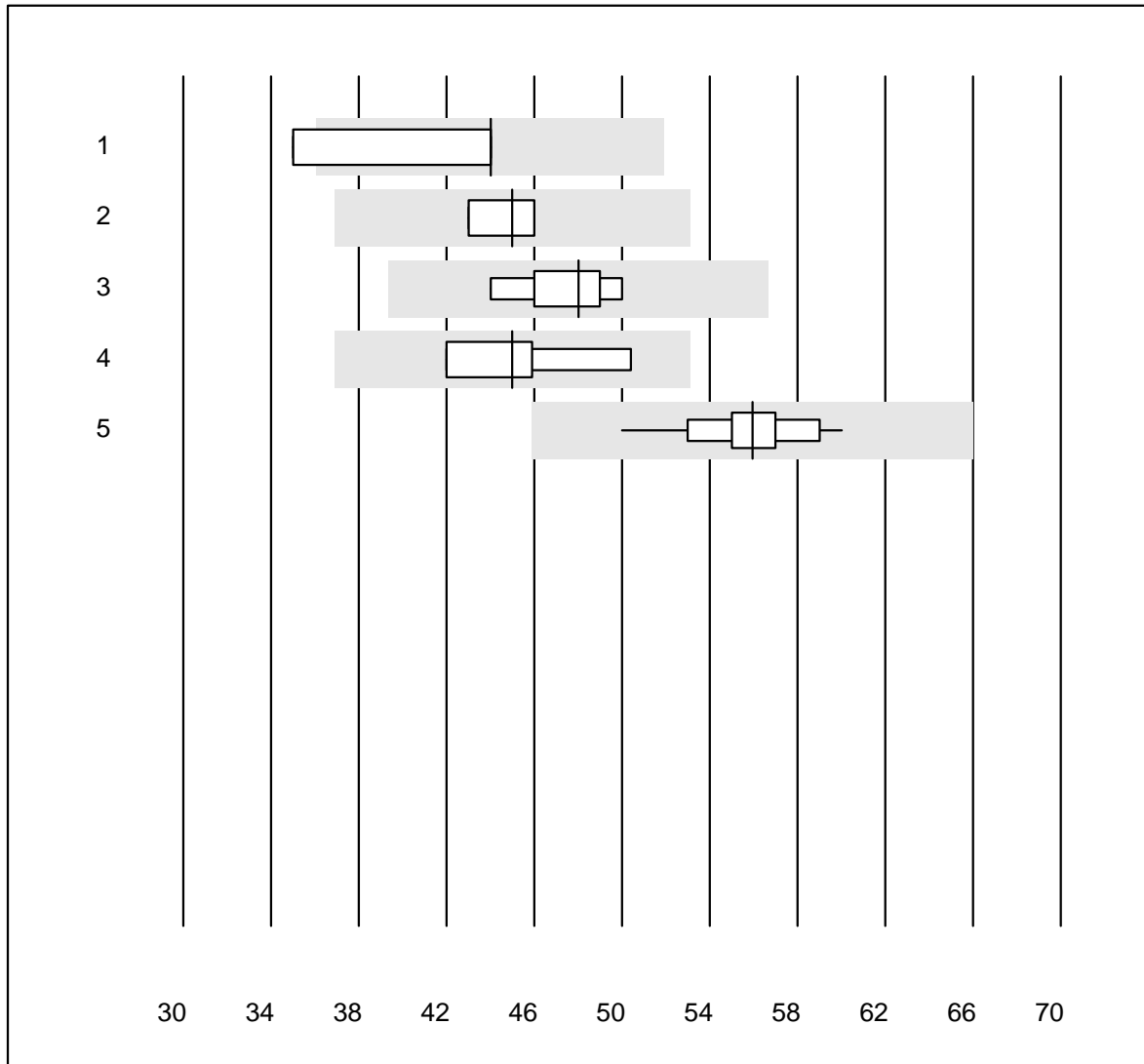


QUALAB tolerance : 15 %

Lactate (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	7	57.1	0.0	42.9	1.40	4.9	e*

Lipase

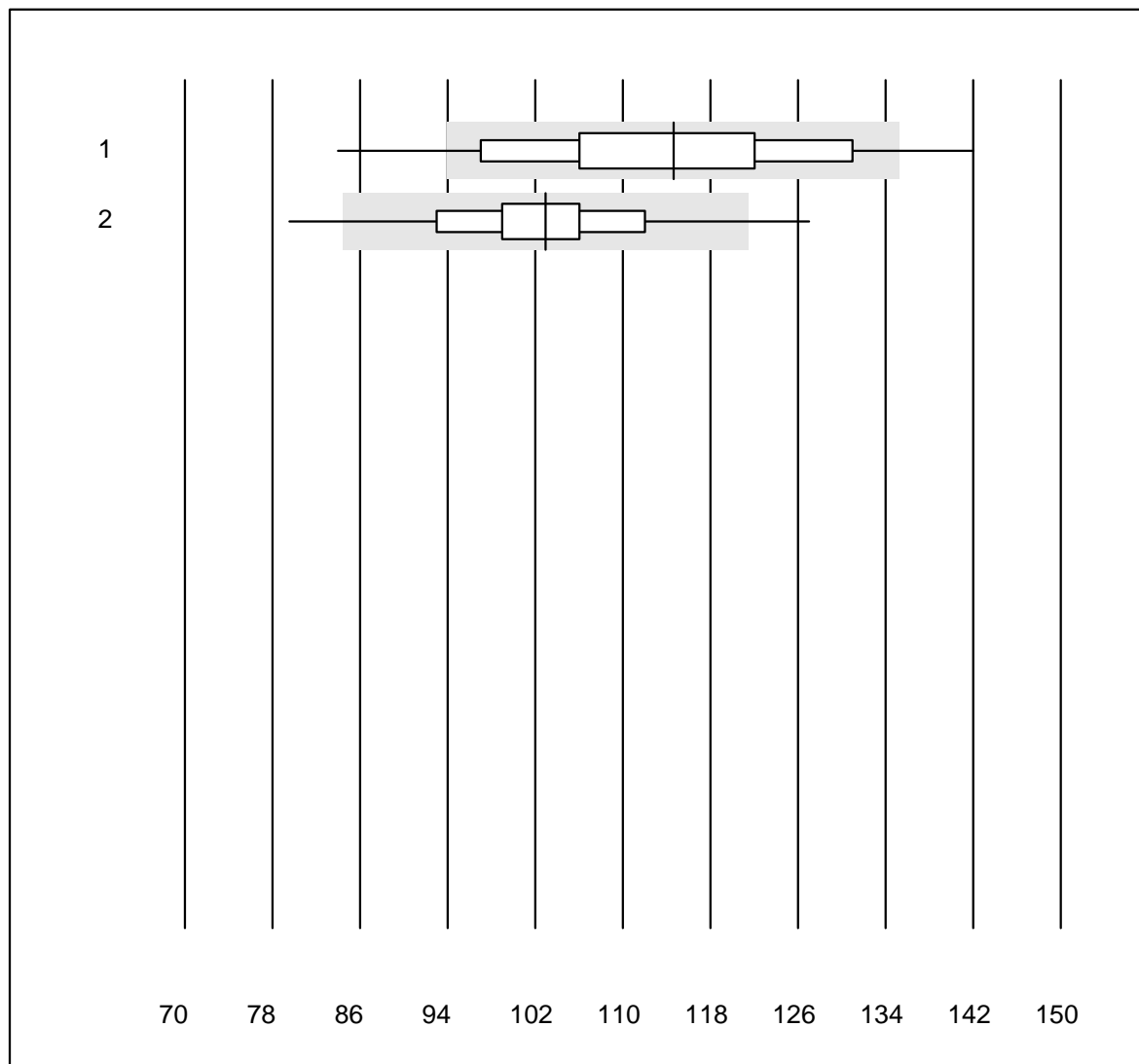


QUALAB tolerance : 18 %

Lipase (U/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Abx Mira	5	40.0	20.0	40.0	44.0	12.2	e*
2	Architect	4	100.0	0.0	0.0	45.0	3.4	e
3	Beckman DXC	5	100.0	0.0	0.0	48.0	5.1	e*
4	Cobas	9	88.9	0.0	11.1	45.0	6.5	e*
5	Fuji Dri-Chem	67	98.5	0.0	1.5	55.9	3.6	e

Creatinine SP

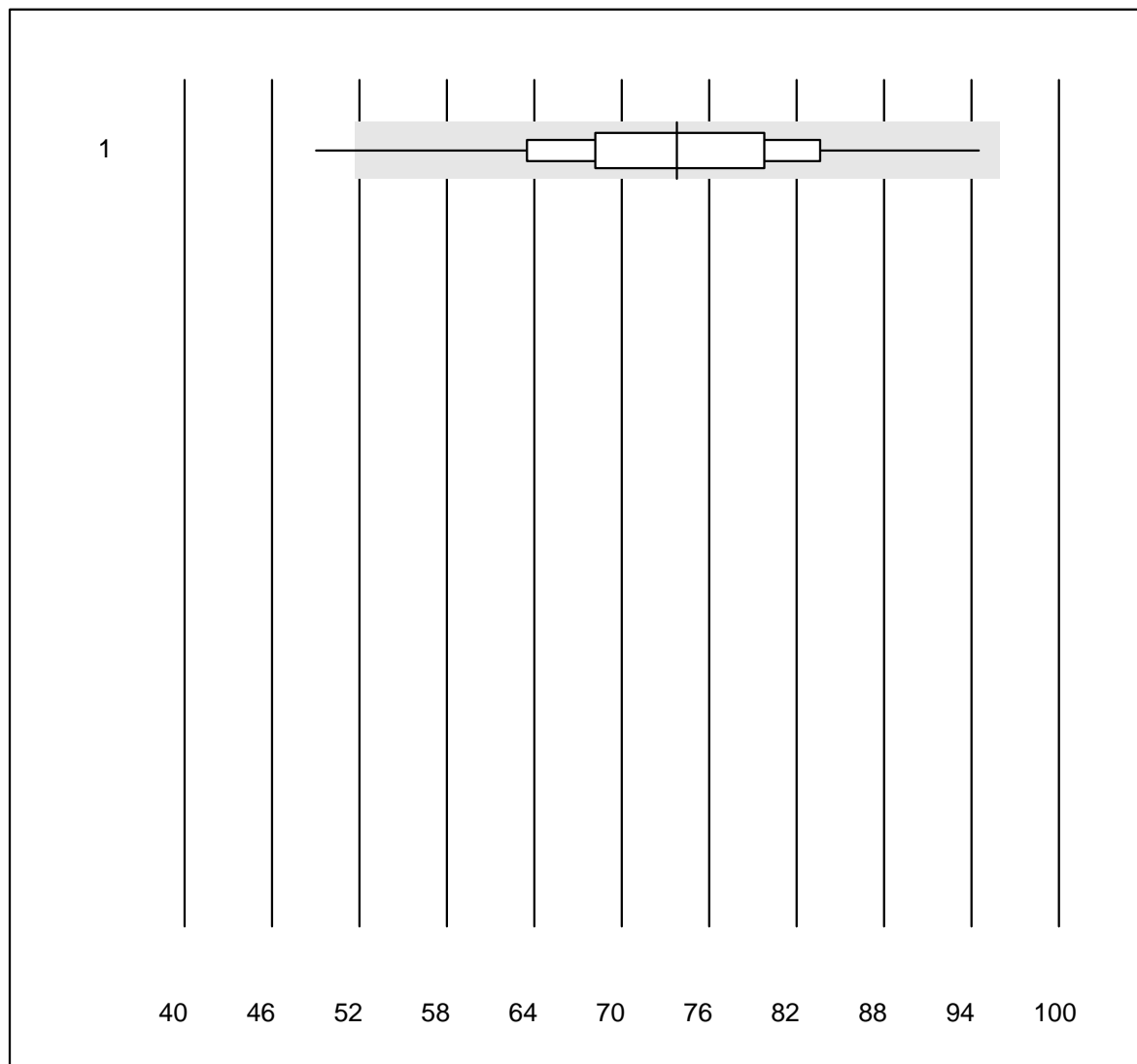


QUALAB tolerance : 18 %

Creatinine SP (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Spotchem/Ready	151	84.1	12.6	3.3	115	11.1	e
2	Spotchem D-Concept	141	96.5	2.8	0.7	103	7.1	e

eGFR (Spotchem)

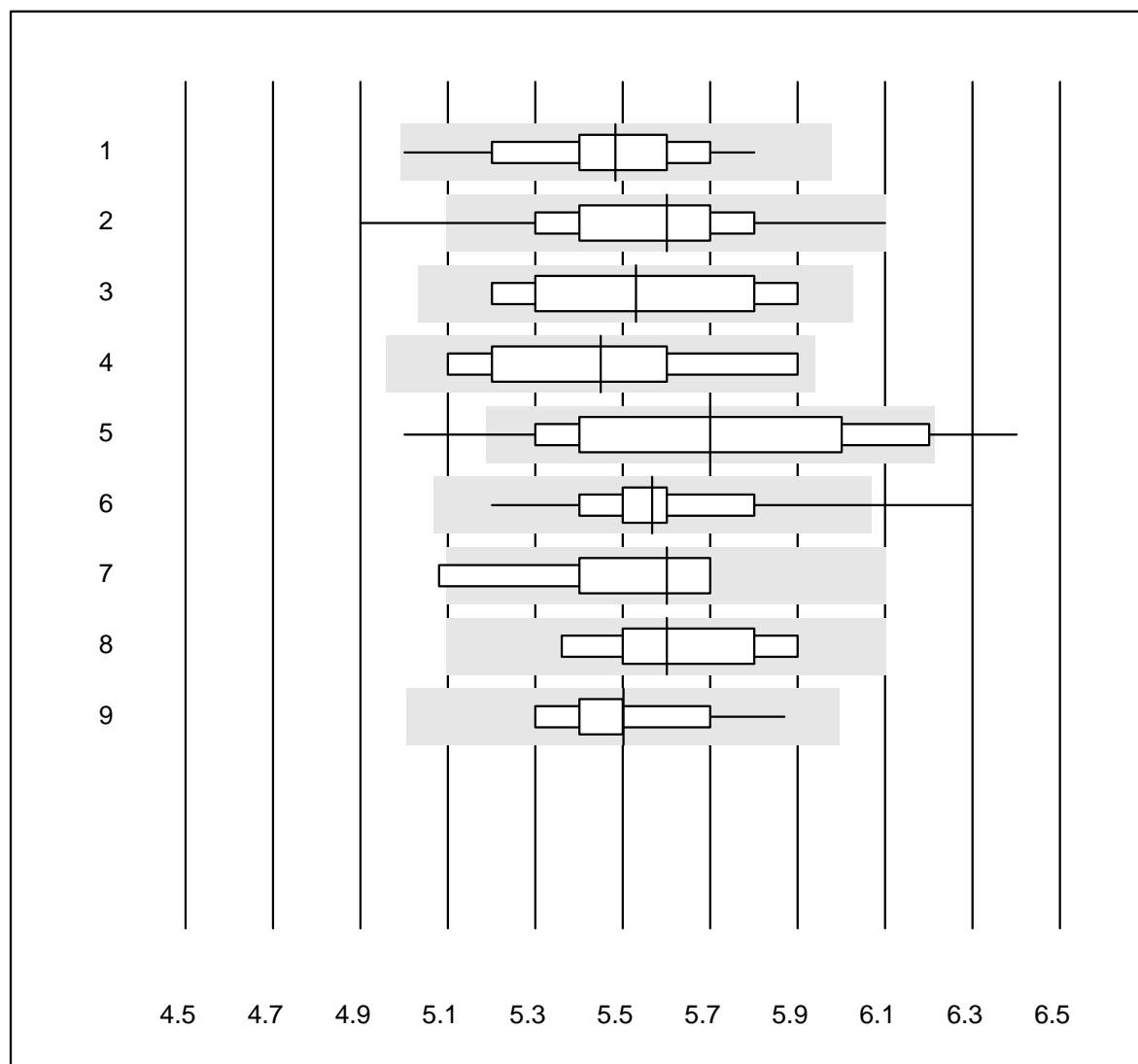


QUALAB tolerance : 30 %

eGFR (Spotchem) ()

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 CKD-EPI	98	93.9	1.0	5.1	74	11.9	e

HbA1c sample A

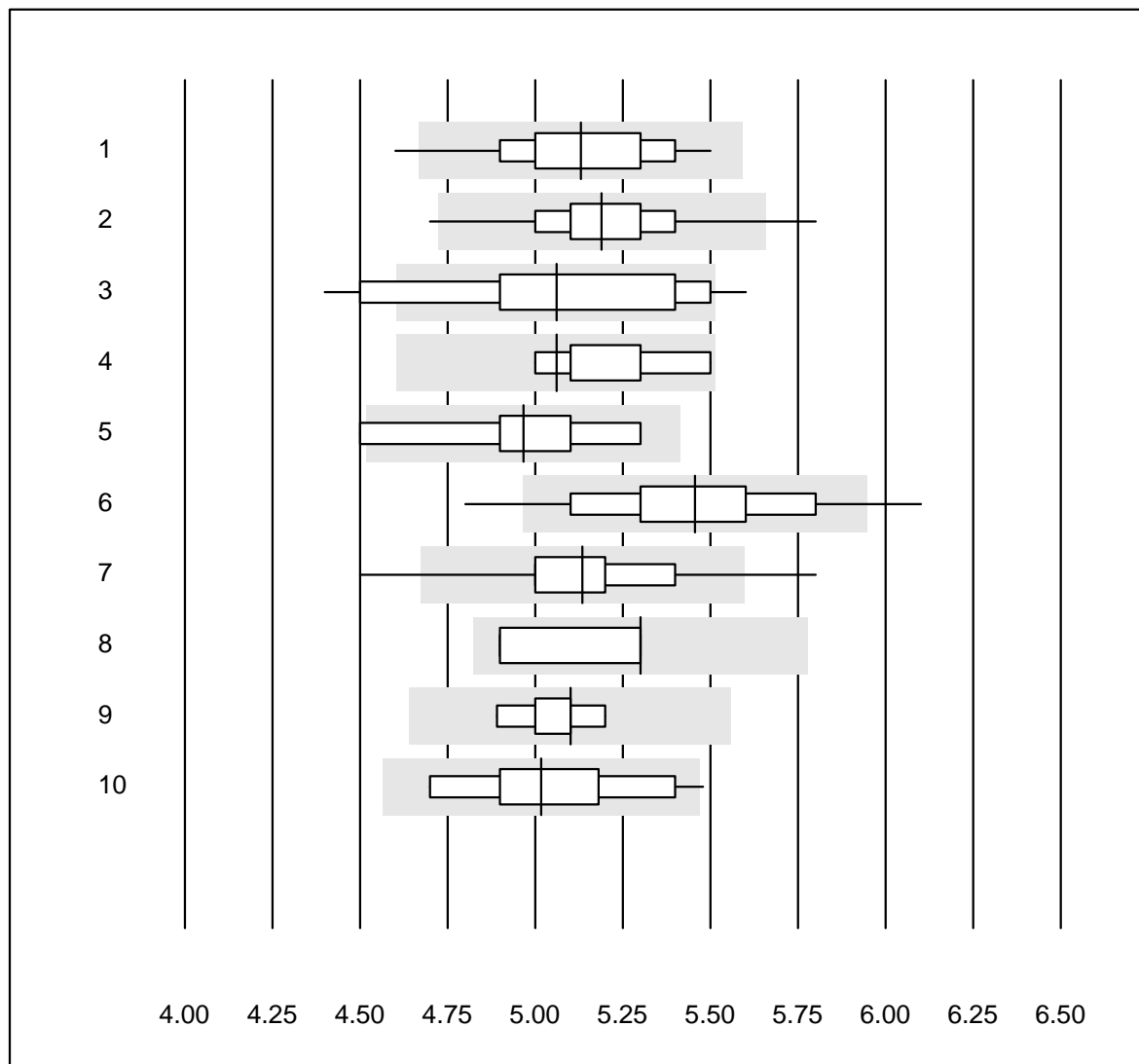


QUALAB tolerance : 9 %

HbA1c sample A (%)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b101	25	100.0	0.0	0.0	5.5	3.4	e
2	Afinion	672	98.7	0.9	0.4	5.6	3.5	e
3	Eurolyser	8	100.0	0.0	0.0	5.5	4.7	a
4	Hemocue HbA1c 501	8	100.0	0.0	0.0	5.5	4.9	e*
5	NycoCard	74	79.7	9.5	10.8	5.7	5.9	e
6	DCA2000/Vantage	208	97.1	2.4	0.5	5.6	3.3	e
7	Others	7	57.1	14.3	28.6	5.6	4.8	e*
8	HPLC	7	100.0	0.0	0.0	5.6	3.2	e*
9	Roche, Cobas	14	100.0	0.0	0.0	5.5	2.8	e

HbA1c sample B

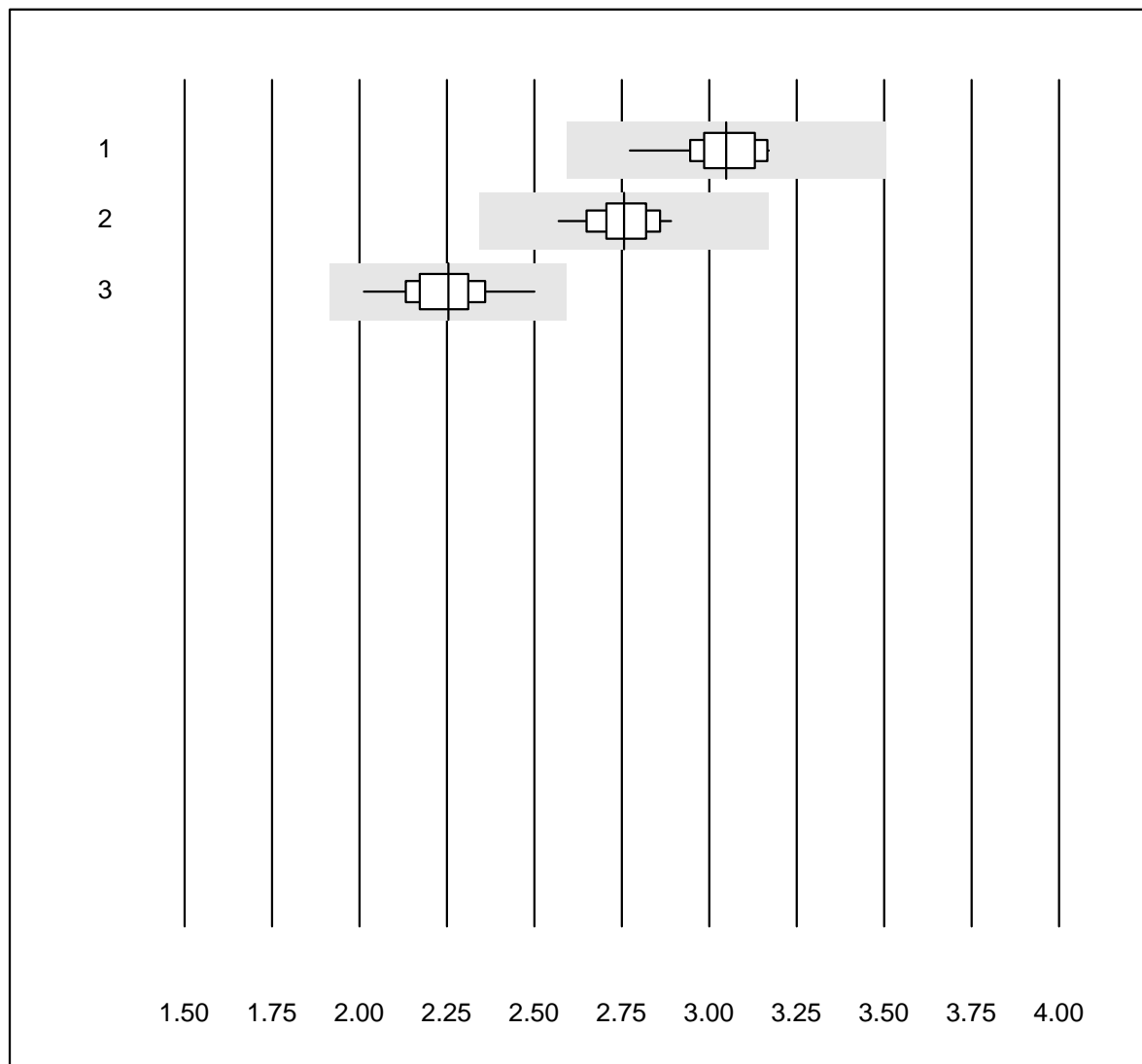


QUALAB tolerance : 9 %

HbA1c sample B (%)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b101	33	93.9	6.1	0.0	5.1	4.4	e
2	Afinion	534	98.3	1.1	0.6	5.2	3.4	e
3	Eurolyser	18	66.6	27.8	5.6	5.1	7.6	a
4	A1c Now	5	100.0	0.0	0.0	5.1	3.7	a
5	Hemocue HbA1c 501	11	72.7	9.1	18.2	5.0	4.5	e*
6	NycoCard	104	81.7	5.8	12.5	5.5	5.0	e
7	DCA2000/Vantage	209	96.1	2.9	1.0	5.1	3.4	e
8	Others	5	80.0	0.0	20.0	5.3	3.7	e*
9	HPLC	5	100.0	0.0	0.0	5.1	2.3	e
10	Roche, Cobas	17	94.1	5.9	0.0	5.0	4.8	e*

pCO2



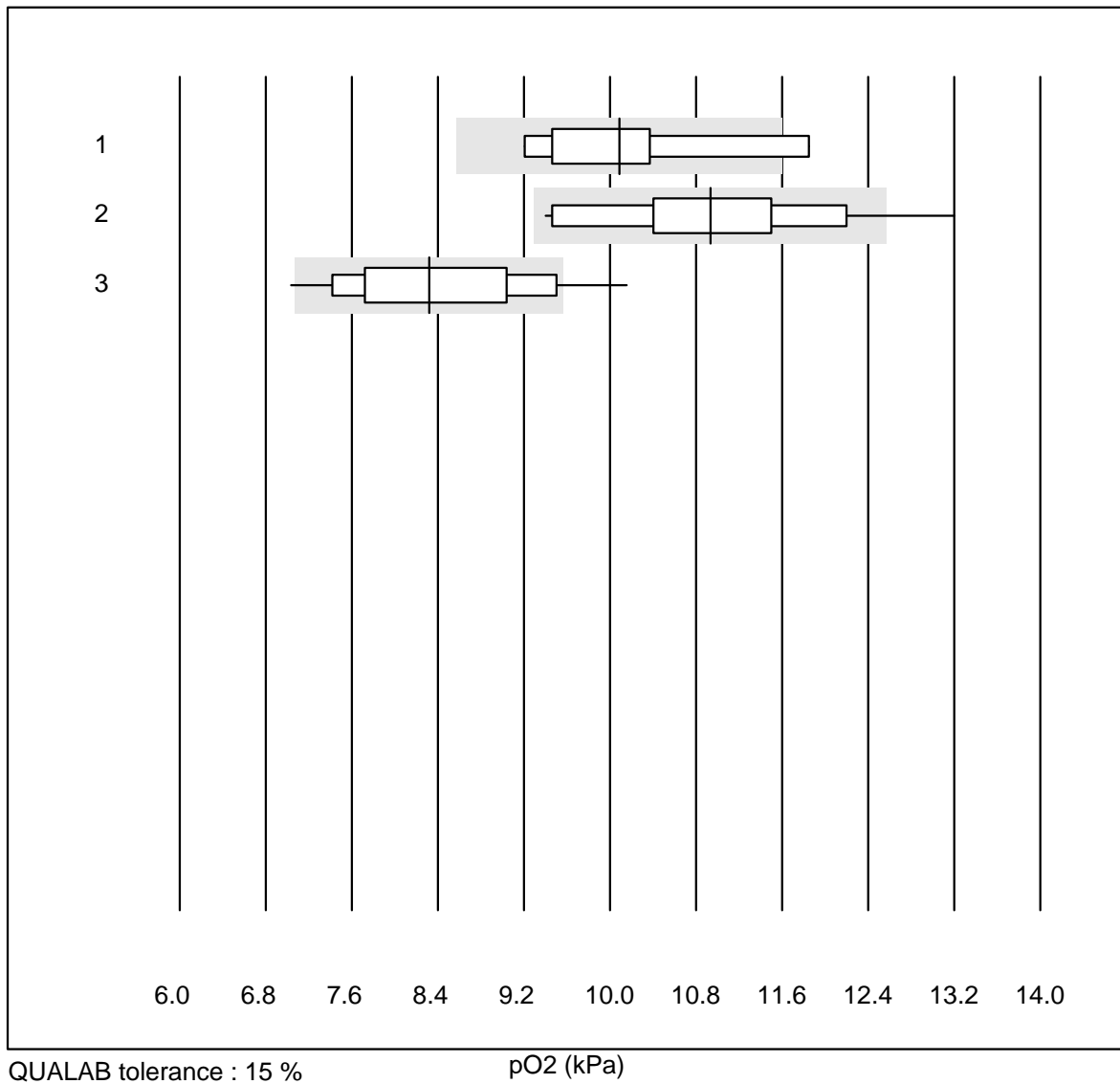
QUALAB tolerance : 15 %

pCO2 (kPa)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	14	100.0	0.0	0.0	3.05	3.6	e
2	iStat	32	100.0	0.0	0.0	2.76	2.9	e
3	EPOC	26	96.2	0.0	3.8	2.25	5.0	e

K4 Blood gases

pO2

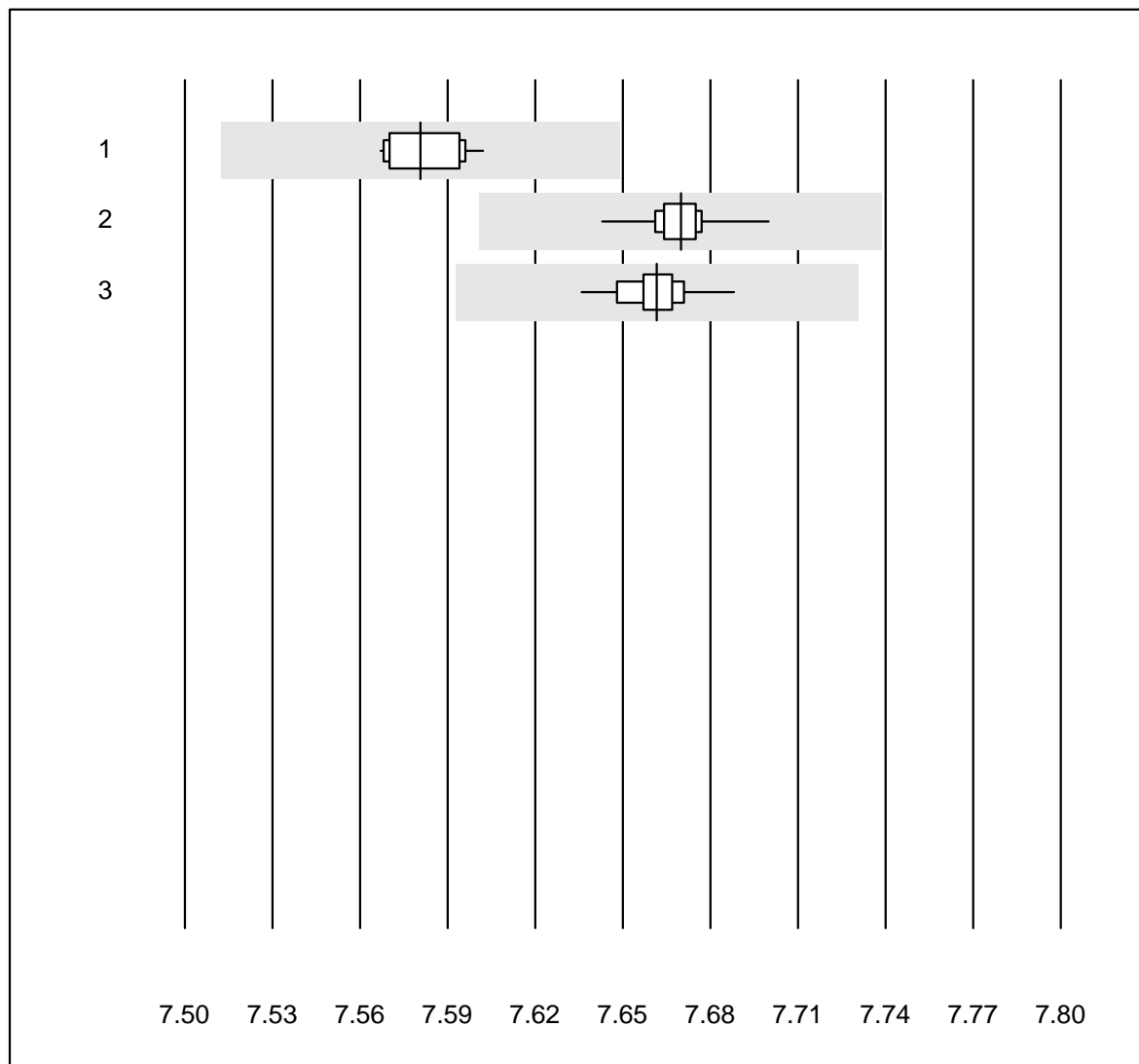


QUALAB tolerance : 15 %

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	11	63.6	9.1	27.3	10.08	8.1	e*
2	iStat	31	90.3	6.5	3.2	10.94	8.8	e
3	EPOC	26	73.1	11.5	15.4	8.32	10.0	e*

K4 Blood gases

pH

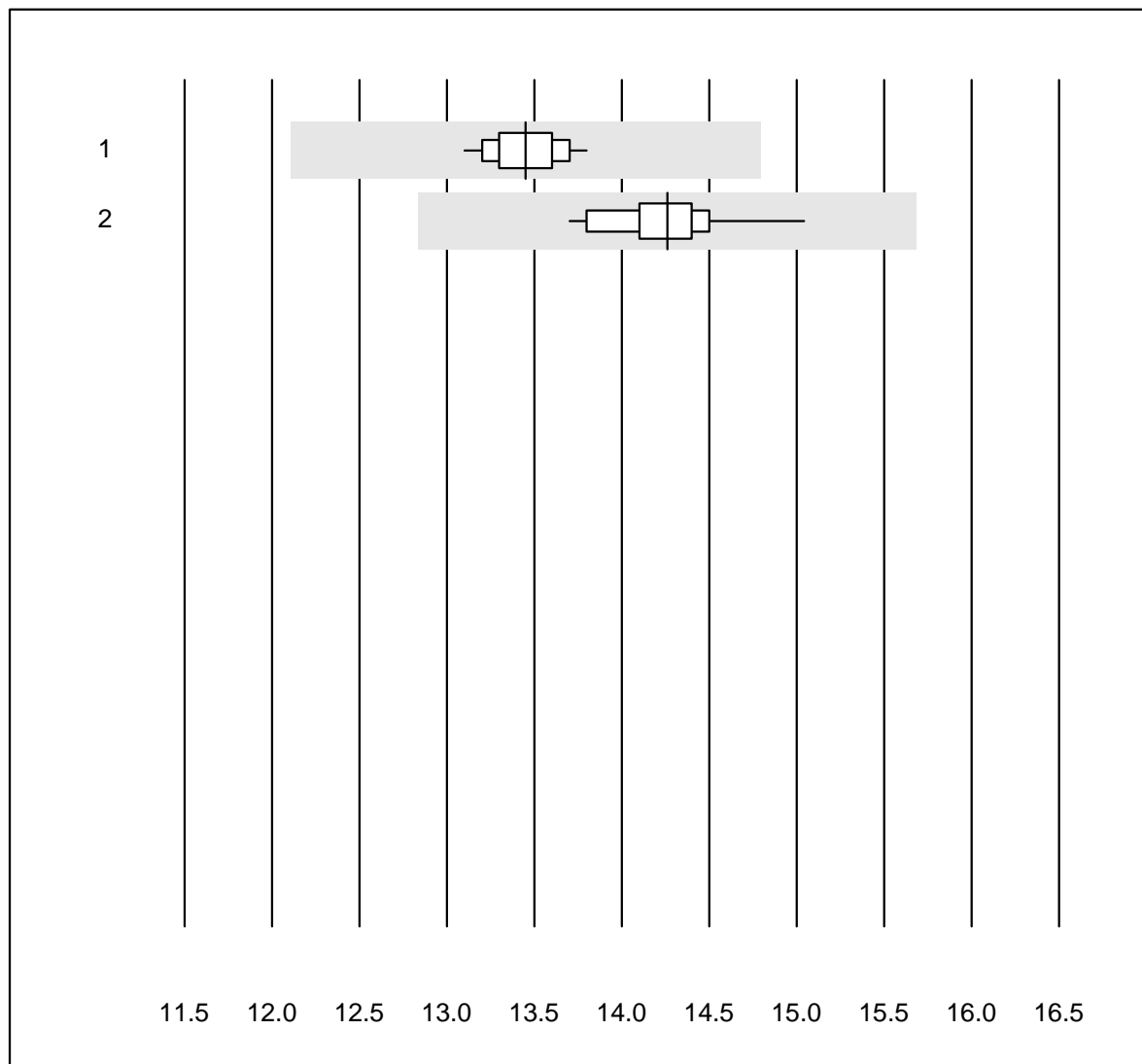


QUALAB tolerance : 1 %

pH ()

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	13	100.0	0.0	0.0	7.58	0.2	e
2	iStat	32	100.0	0.0	0.0	7.67	0.1	e
3	EPOC	26	100.0	0.0	0.0	7.66	0.1	e

Glucose BG

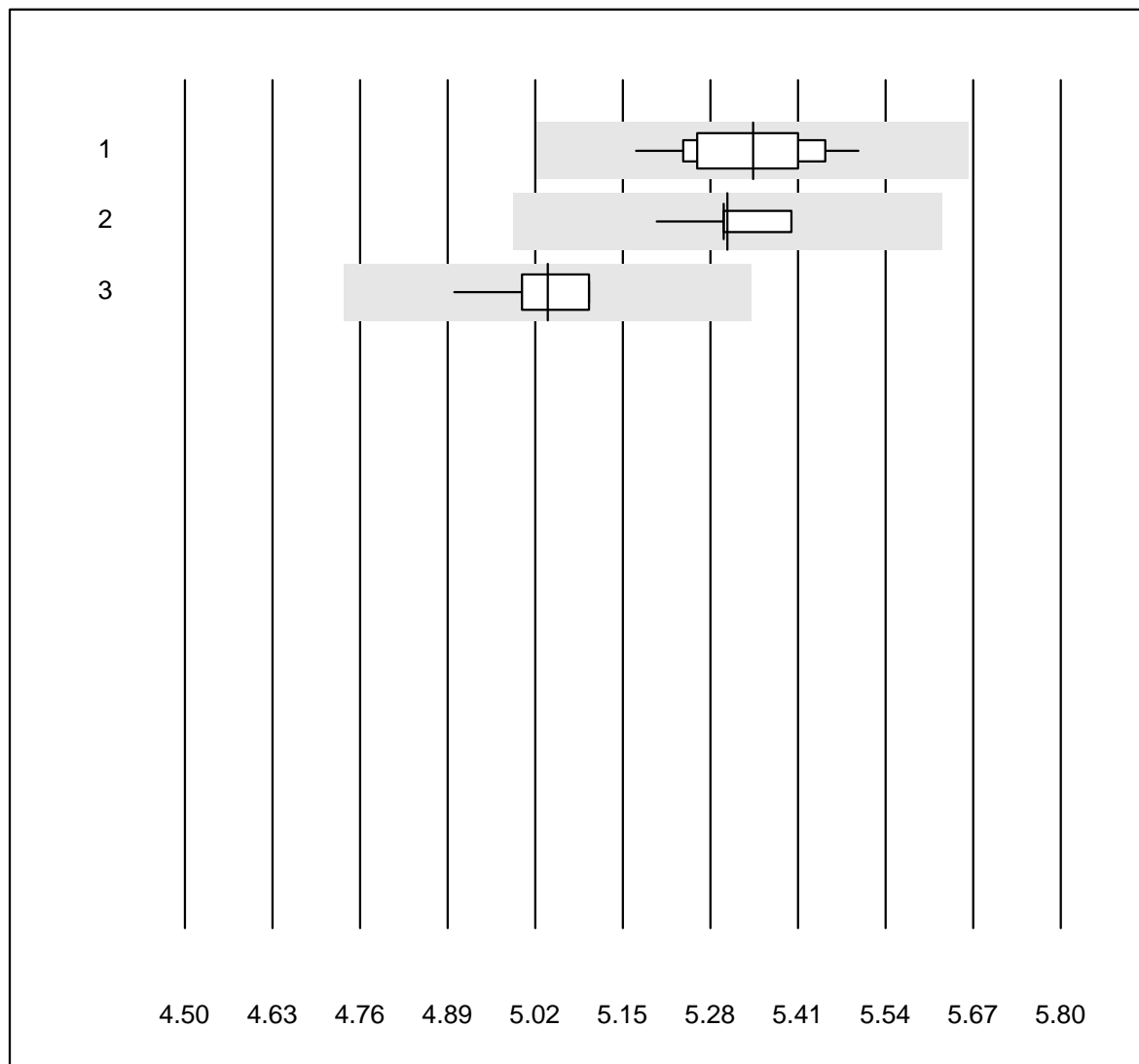


QUALAB tolerance : 10 %

Glucose BG (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	iStat	12	100.0	0.0	0.0	13.5	1.6	e
2	EPOC	18	100.0	0.0	0.0	14.3	2.1	e

Potassium BG

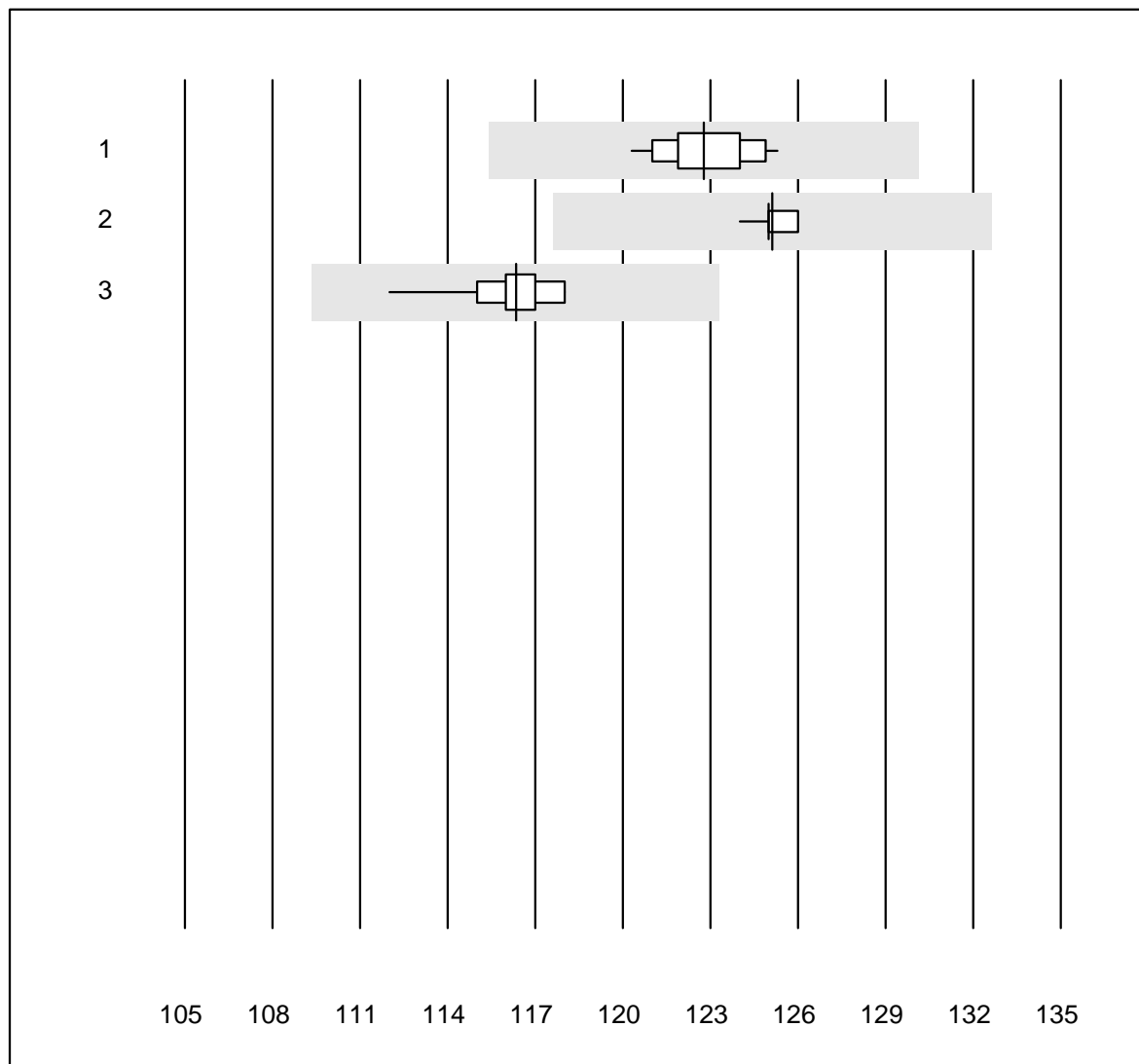


QUALAB tolerance : 6 %

Potassium BG (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	12	100.0	0.0	0.0	5.3	1.8	e
2	iStat	19	94.7	0.0	5.3	5.3	0.8	e
3	EPOC	21	100.0	0.0	0.0	5.0	1.3	e

Sodium BG

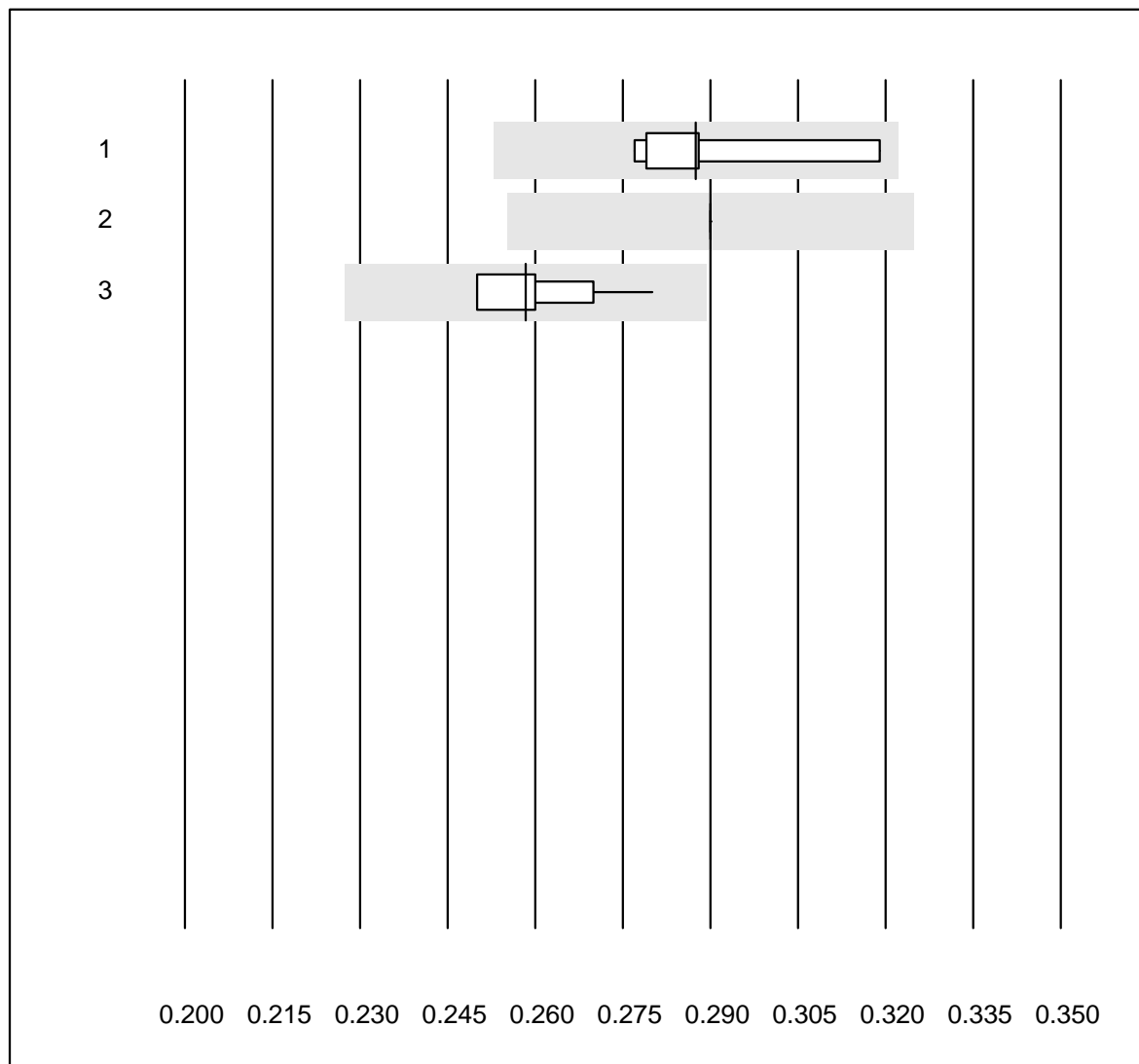


QUALAB tolerance : 6 %

Sodium BG (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	13	100.0	0.0	0.0	122.8	1.2	e
2	iStat	19	94.7	0.0	5.3	125.1	0.4	e
3	EPOC	21	100.0	0.0	0.0	116.3	1.3	e

Calcium-BG

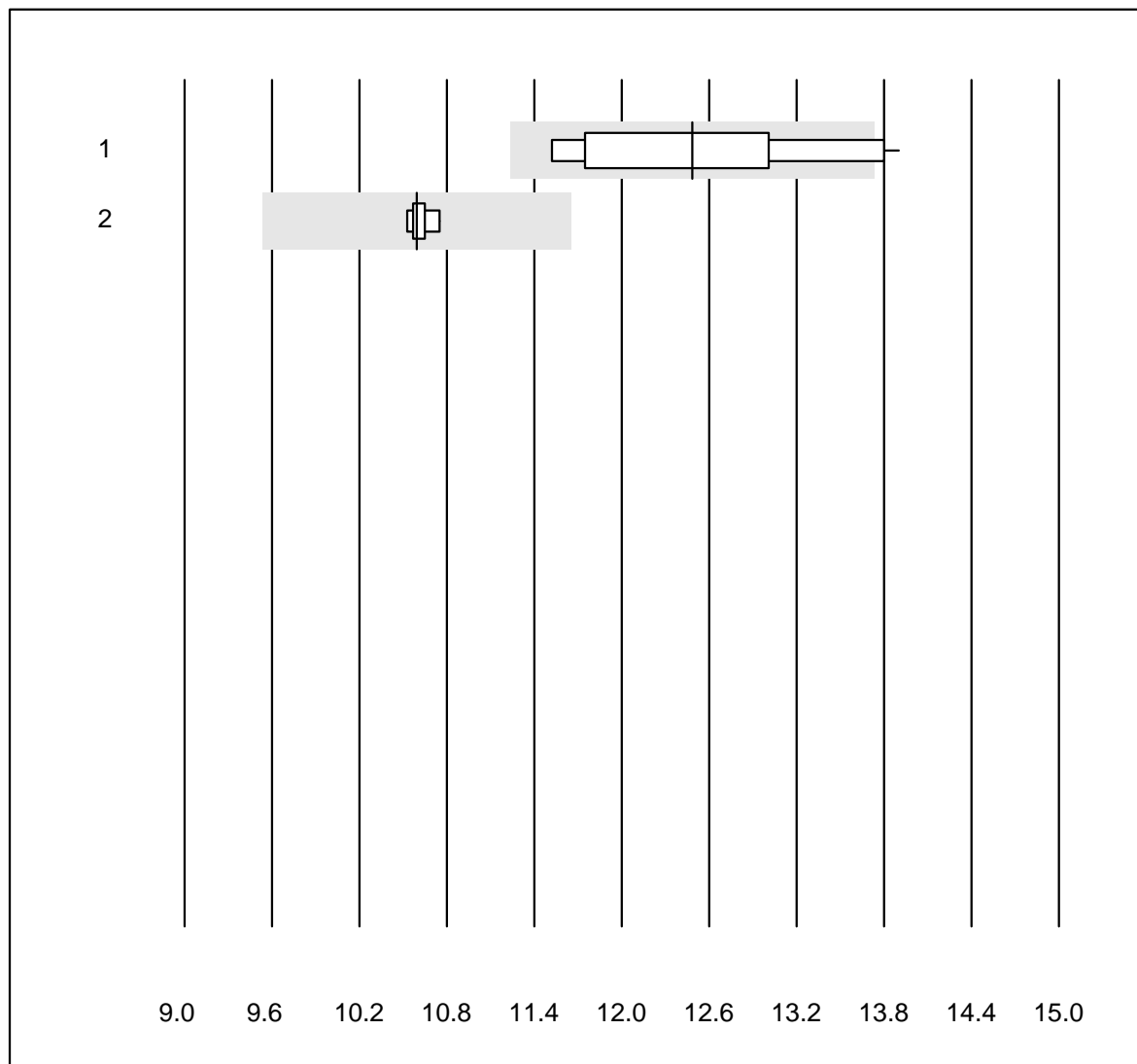


QUALAB tolerance : 12 %

Calcium-BG (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b121/123/221	8	62.5	0.0	37.5	0.29	5.8	e*
2	iStat	10	100.0	0.0	0.0	0.29	0.0	e
3	EPOC	19	100.0	0.0	0.0	0.26	3.5	e

Lactate-BG

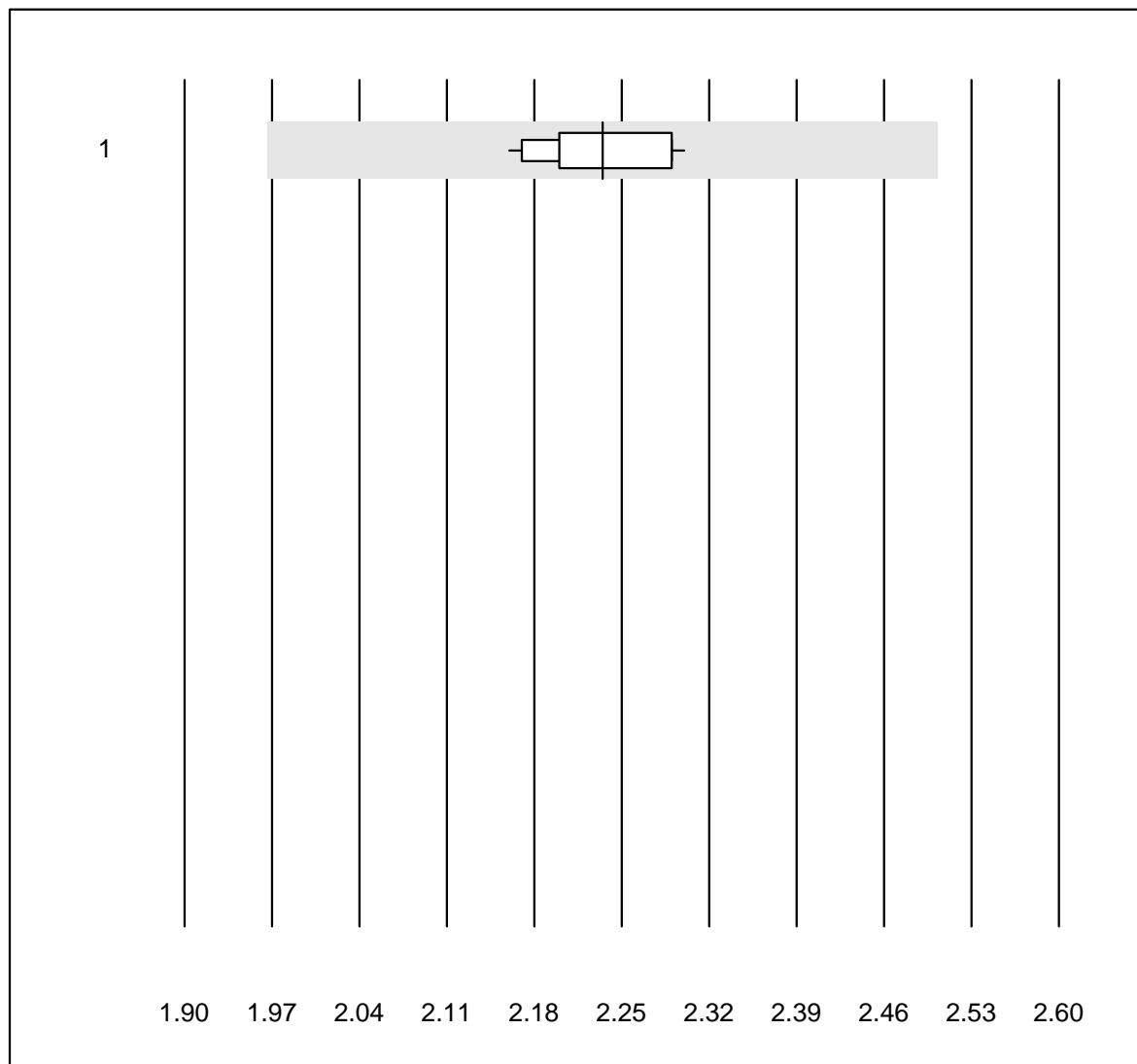


QUALAB tolerance : 10 %

Lactate-BG (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	EPOC	22	77.3	9.1	13.6	12.48	6.2	e*
2	iStat	6	100.0	0.0	0.0	10.60	0.7	e

Calcium - Urine

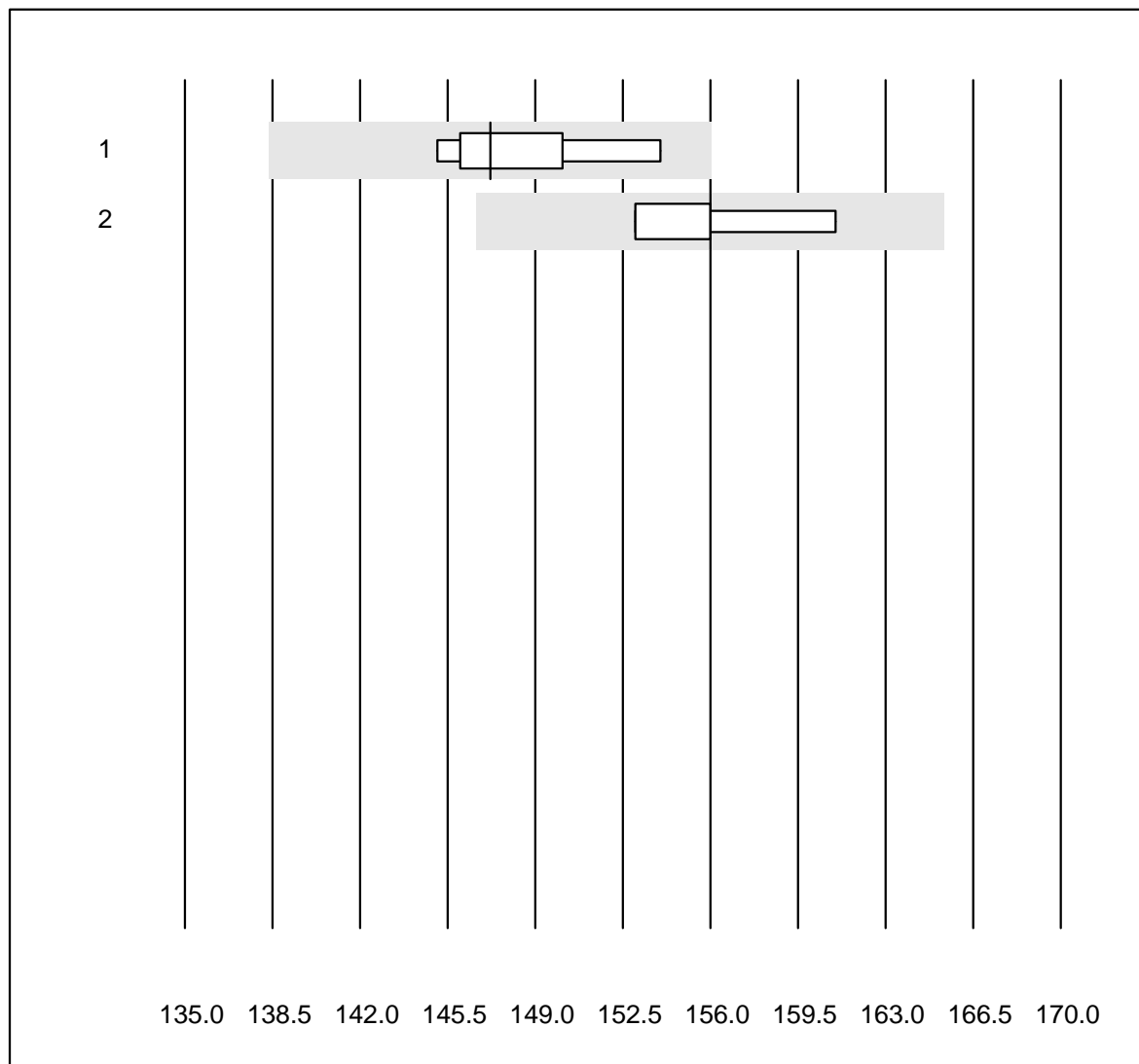


QUALAB tolerance : 12 %

Calcium - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Standard chemistry	13	100.0	0.0	0.0	2.23	2.3	e

Chloride - Urine

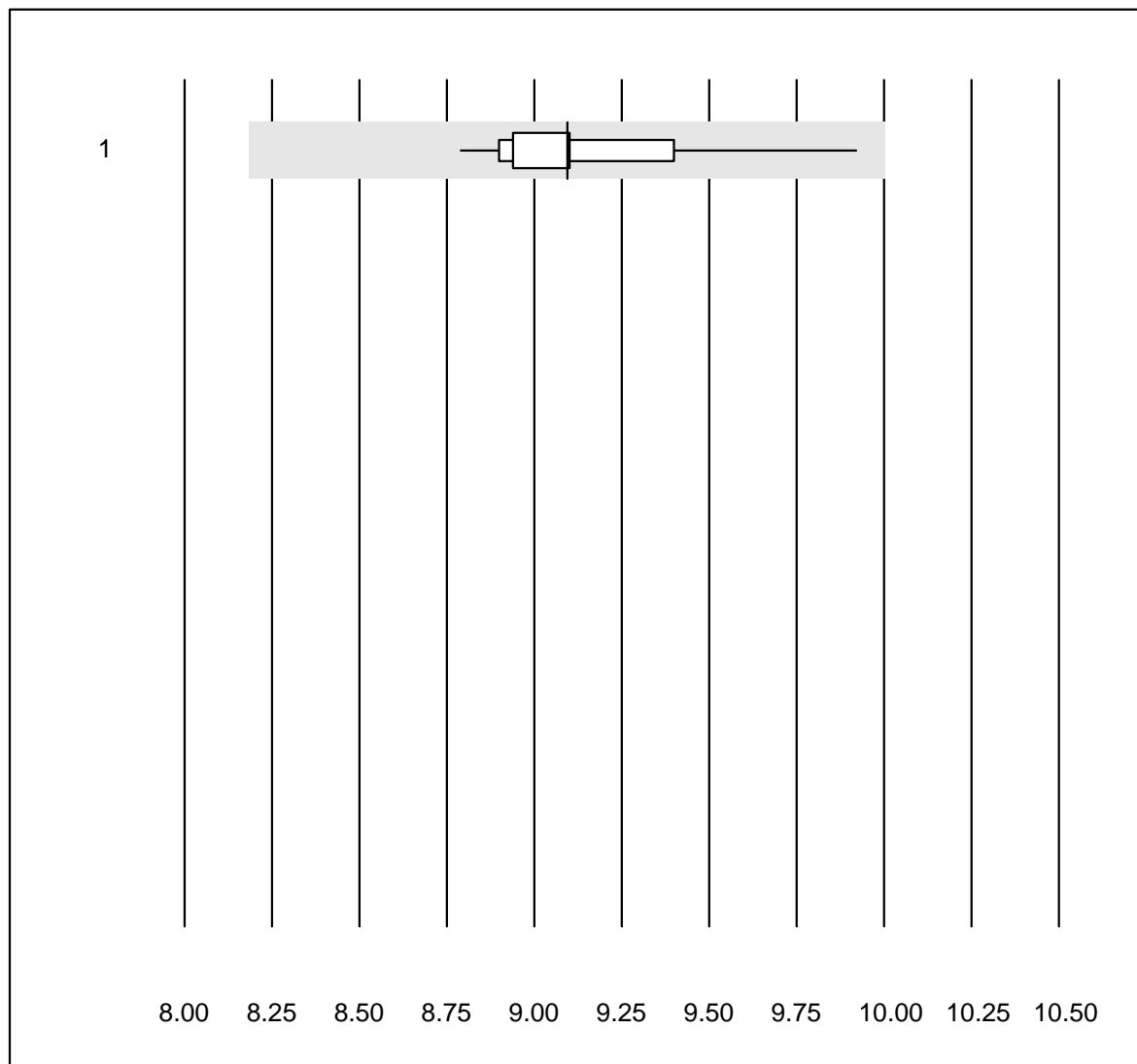


QUALAB tolerance : 6 %

Chloride - Urine (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	6	100.0	0.0	0.0	147	2.2	e*
2	ISE	4	100.0	0.0	0.0	156	2.1	e*

Glucose - Urine

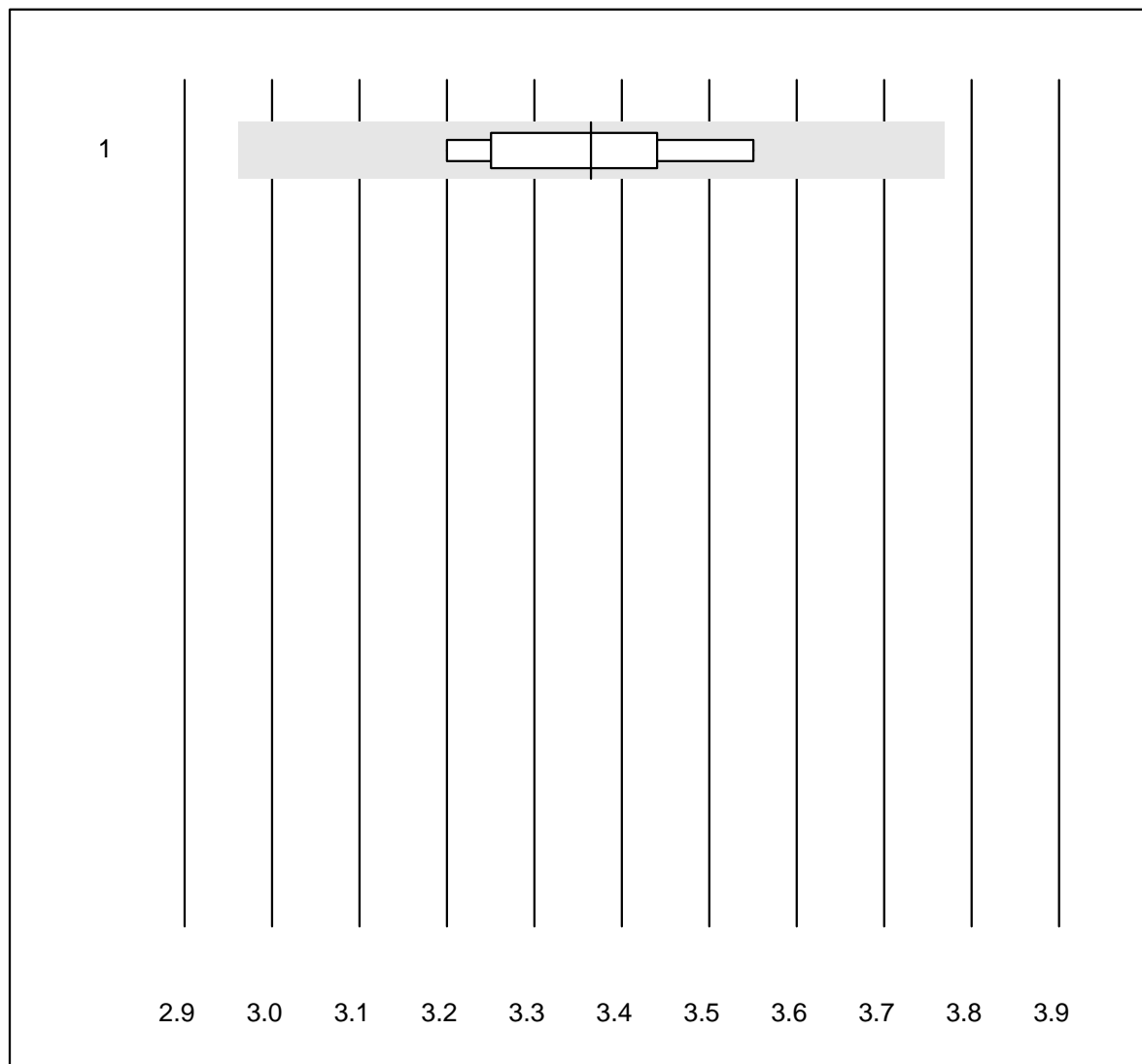


QUALAB tolerance : 10 %

Glucose - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	13	100.0	0.0	0.0	9.1	3.2	e

Magnesium - Urine

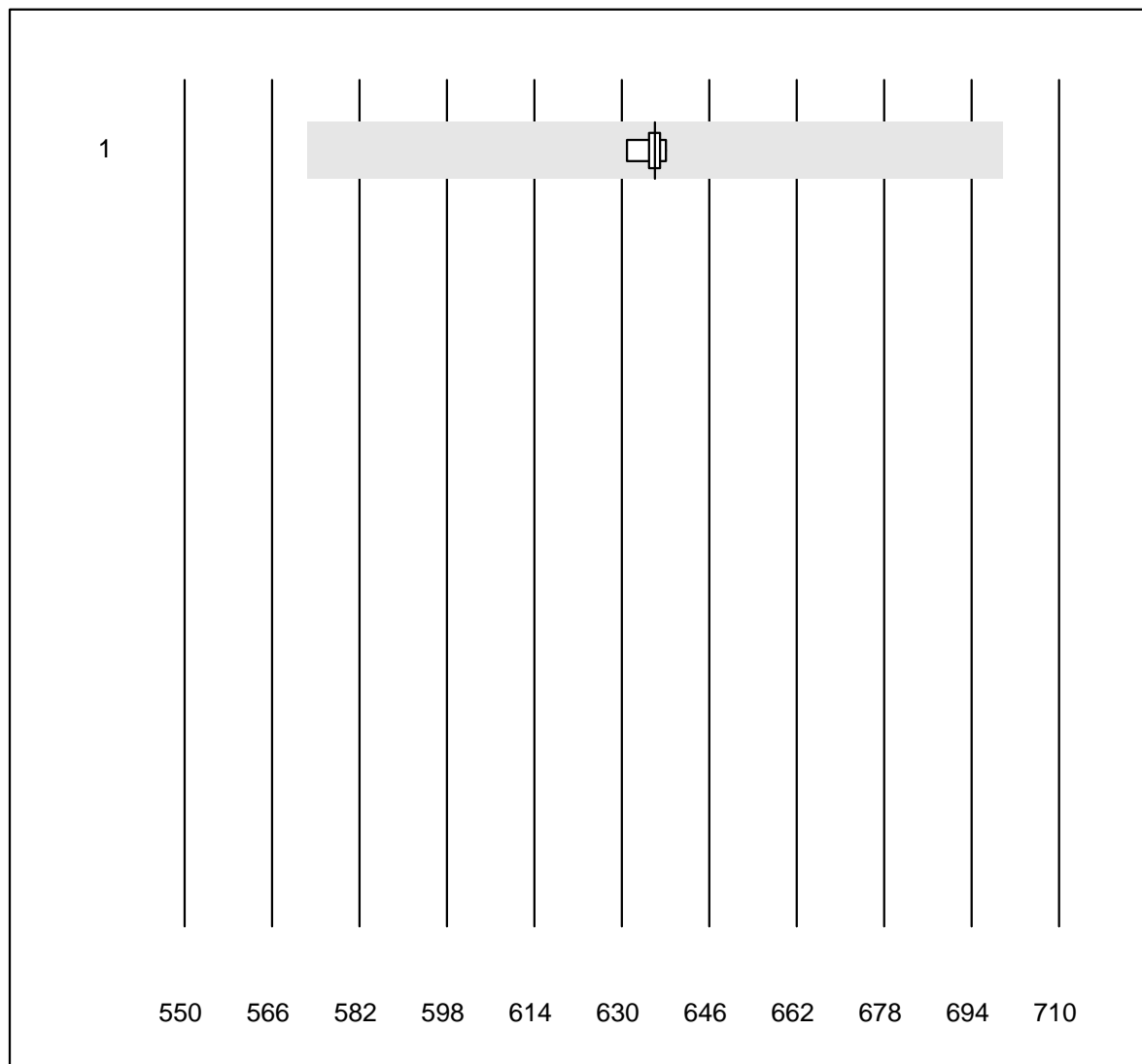


QUALAB tolerance : 12 %

Magnesium - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	8	100.0	0.0	0.0	3.4	3.5	e

Osmolality - Urine

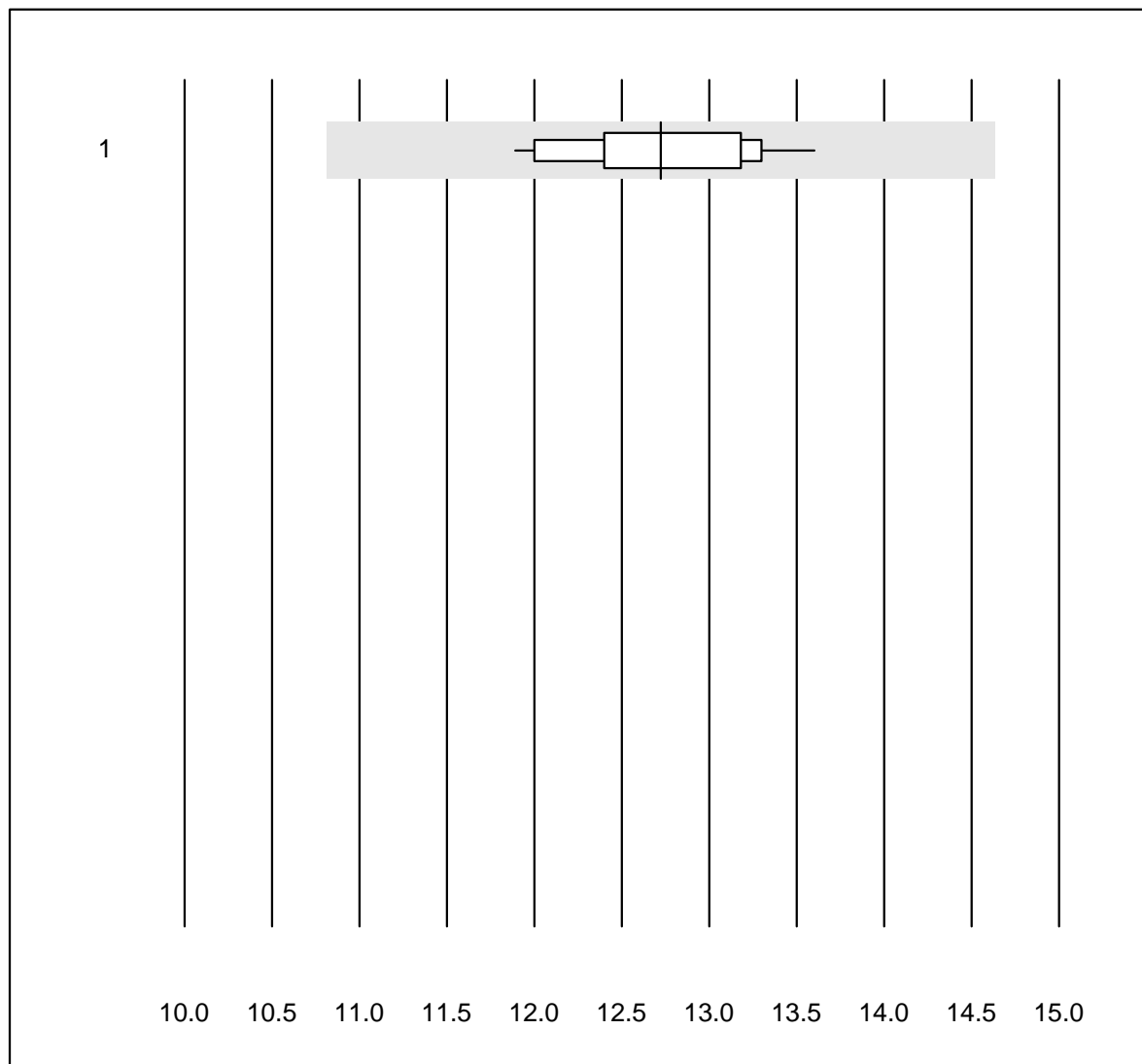


QUALAB tolerance : 10 %

Osmolality - Urine (mosm/kg)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Cryoscopy	6	100.0	0.0	0.0	636	0.4	e

Phosphate - Urine

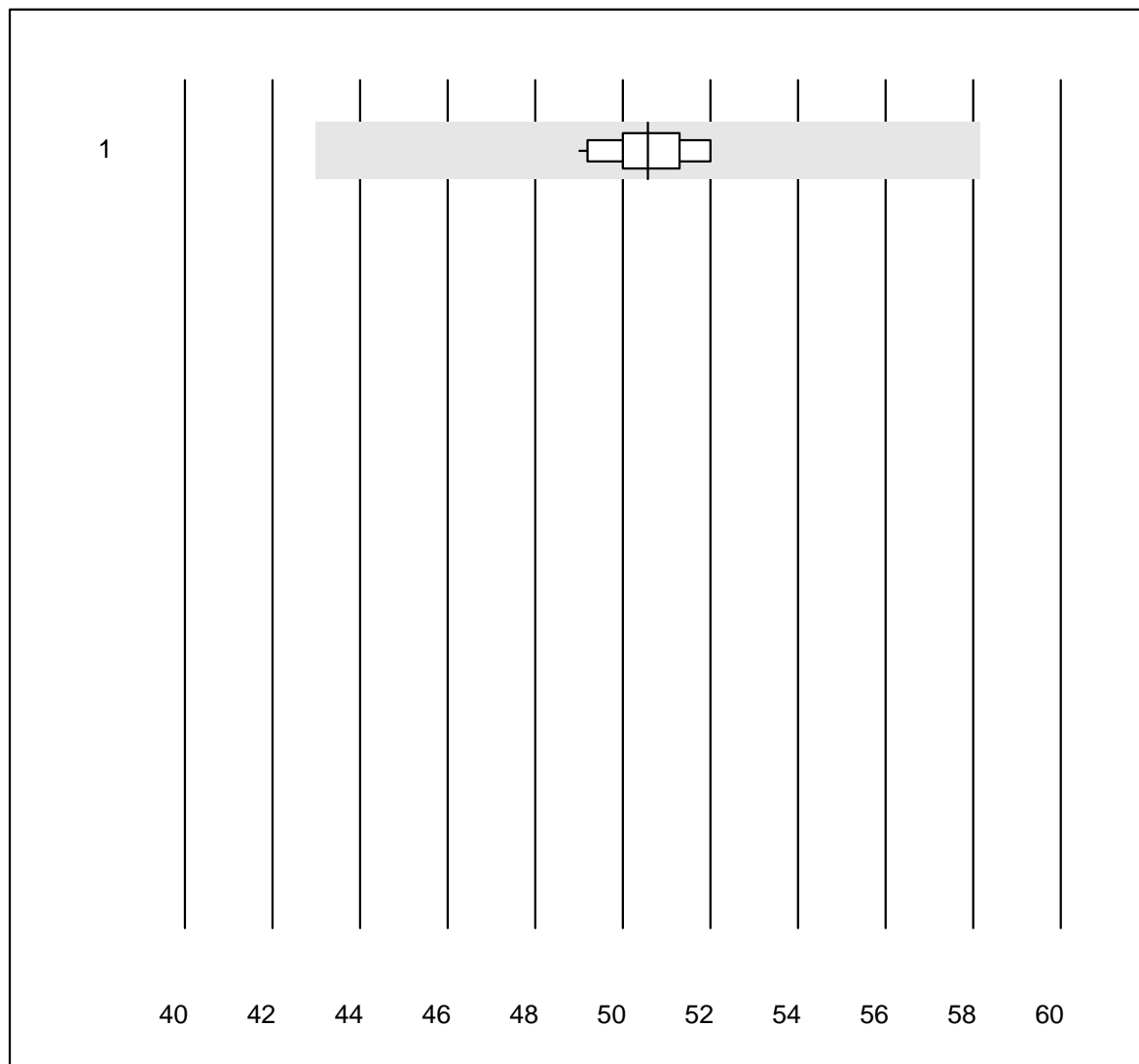


QUALAB tolerance : 15 %

Phosphate - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Standard chemistry	14	100.0	0.0	0.0	12.7	3.9	e

Potassium - Urine

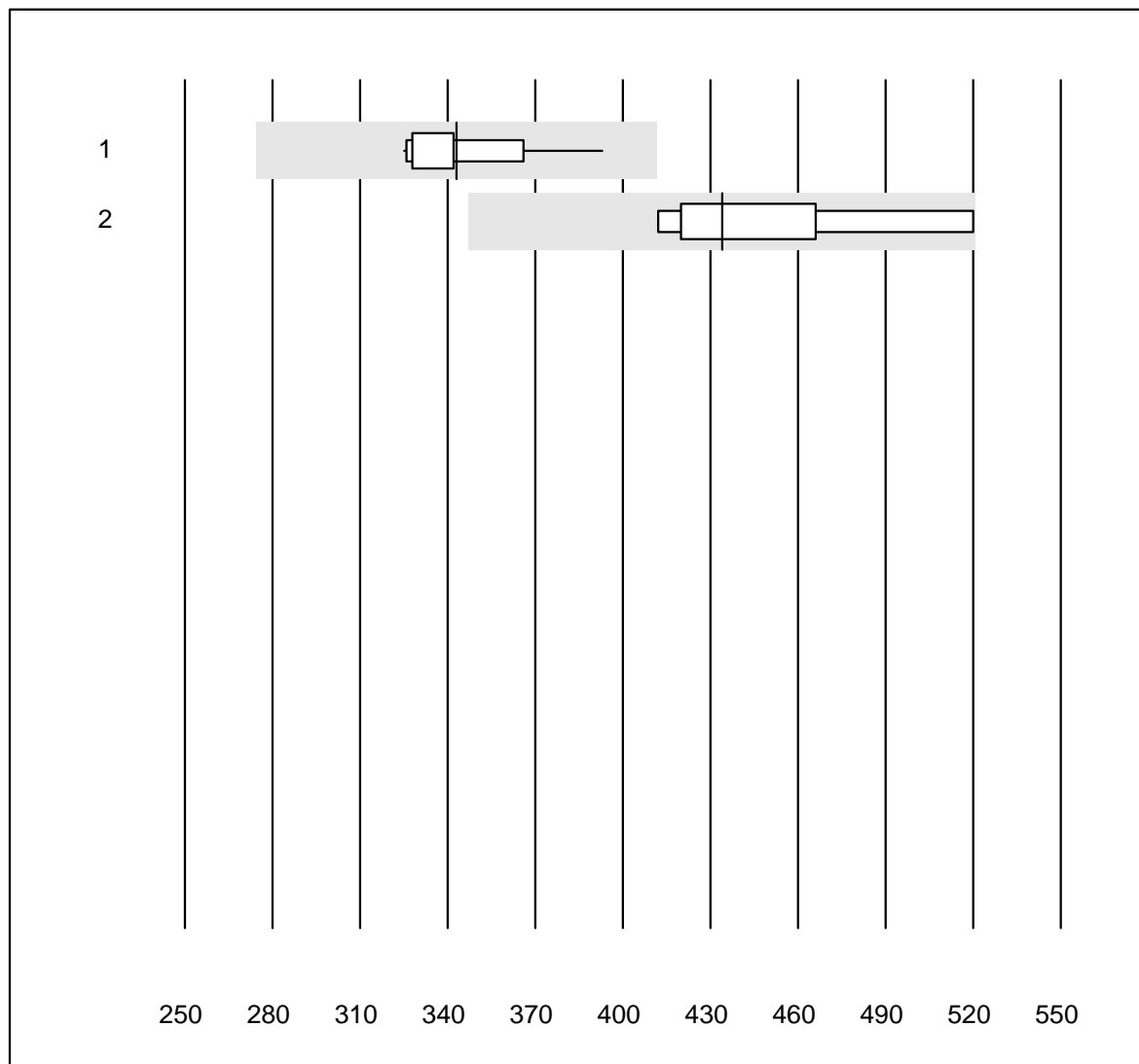


QUALAB tolerance : 15 %

Potassium - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	18	100.0	0.0	0.0	51	1.9	e

total Protein - Urine

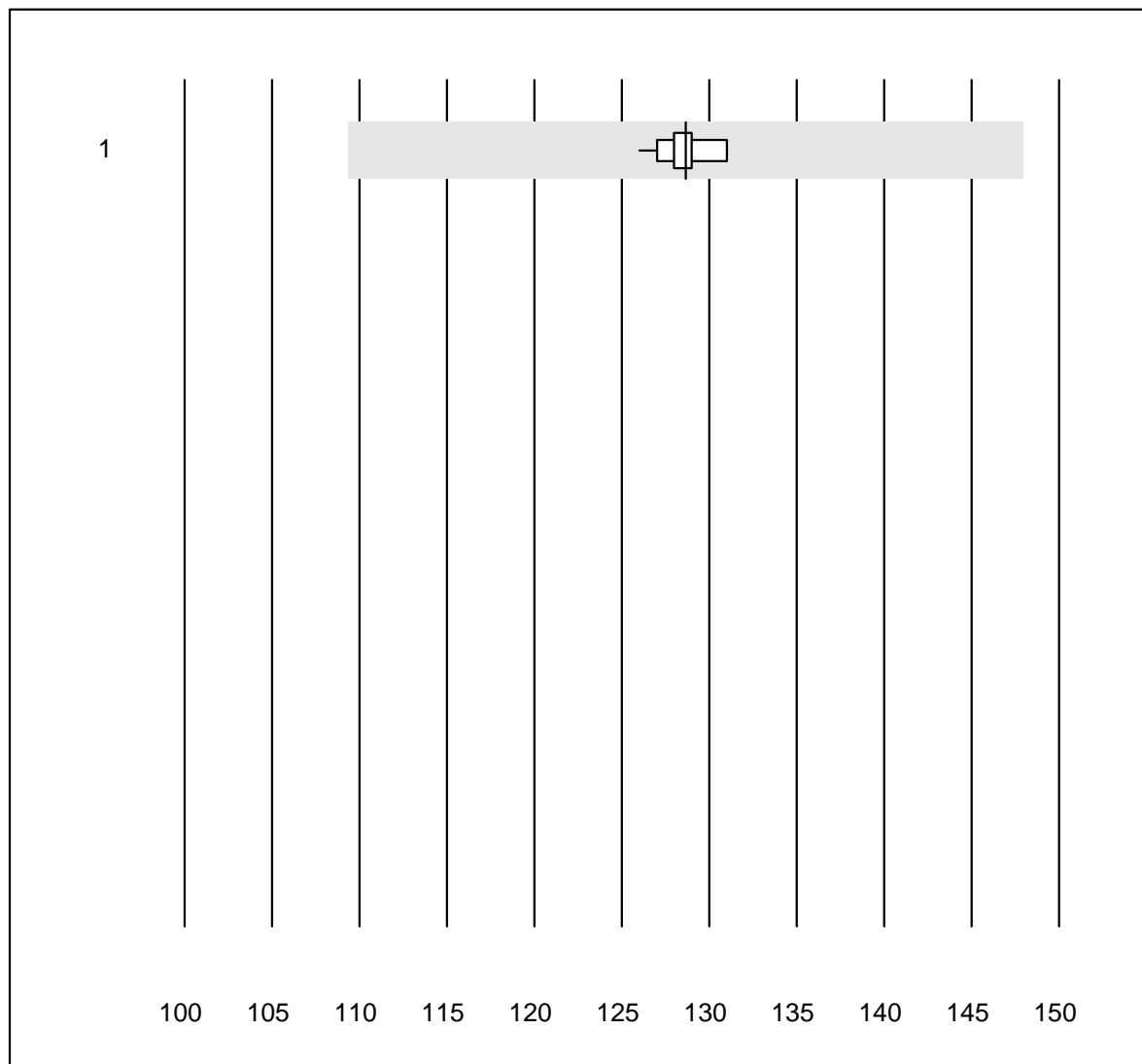


QUALAB tolerance : 20 %

total Protein - Urine (mg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas/Roche	12	100.0	0.0	0.0	342.9	5.7	e
2	Standard chemistry	5	100.0	0.0	0.0	434.0	9.8	e*

Sodium - Urine

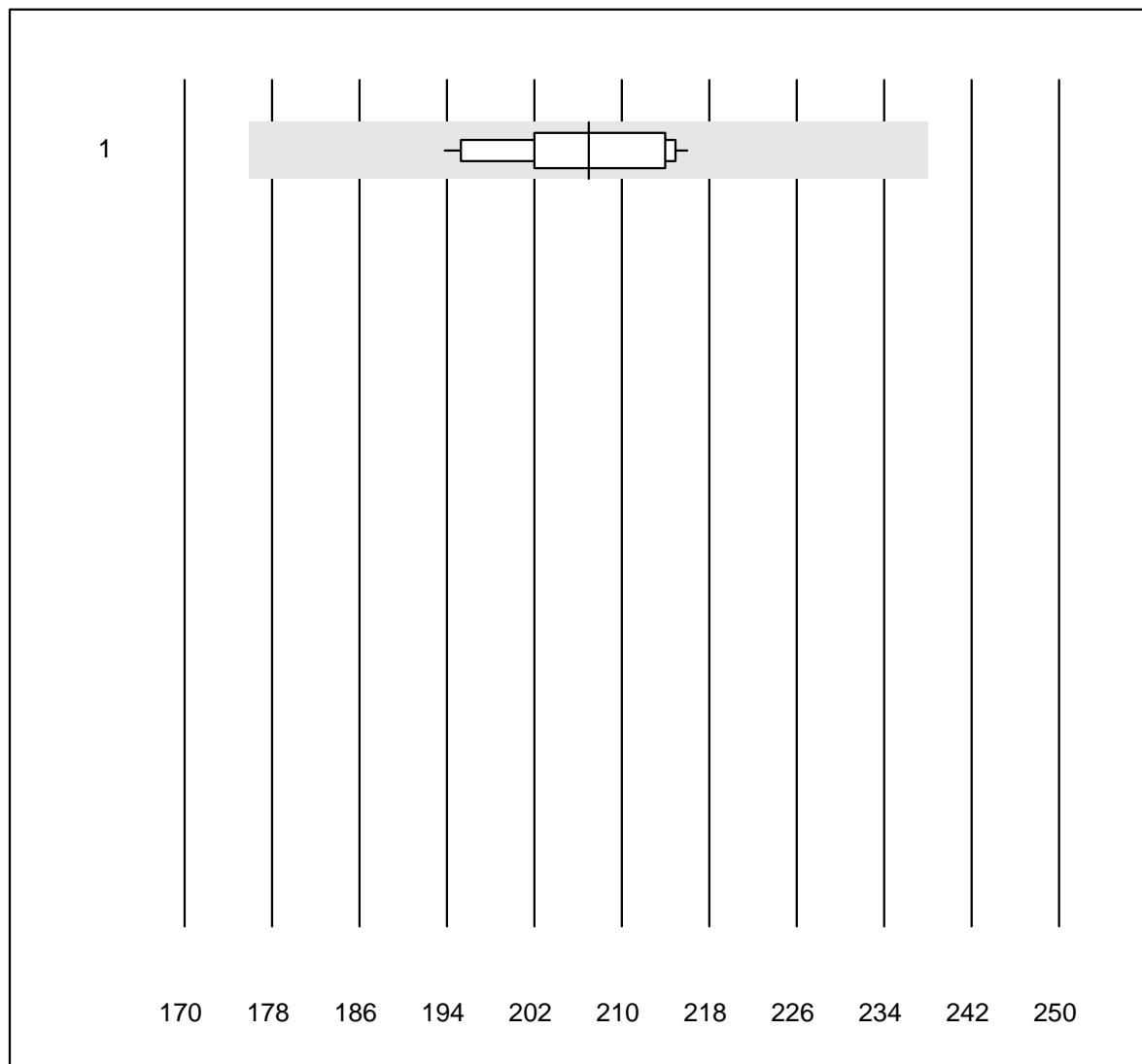


QUALAB tolerance : 15 %

Sodium - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	18	100.0	0.0	0.0	129	1.0	e

Urea - Urine

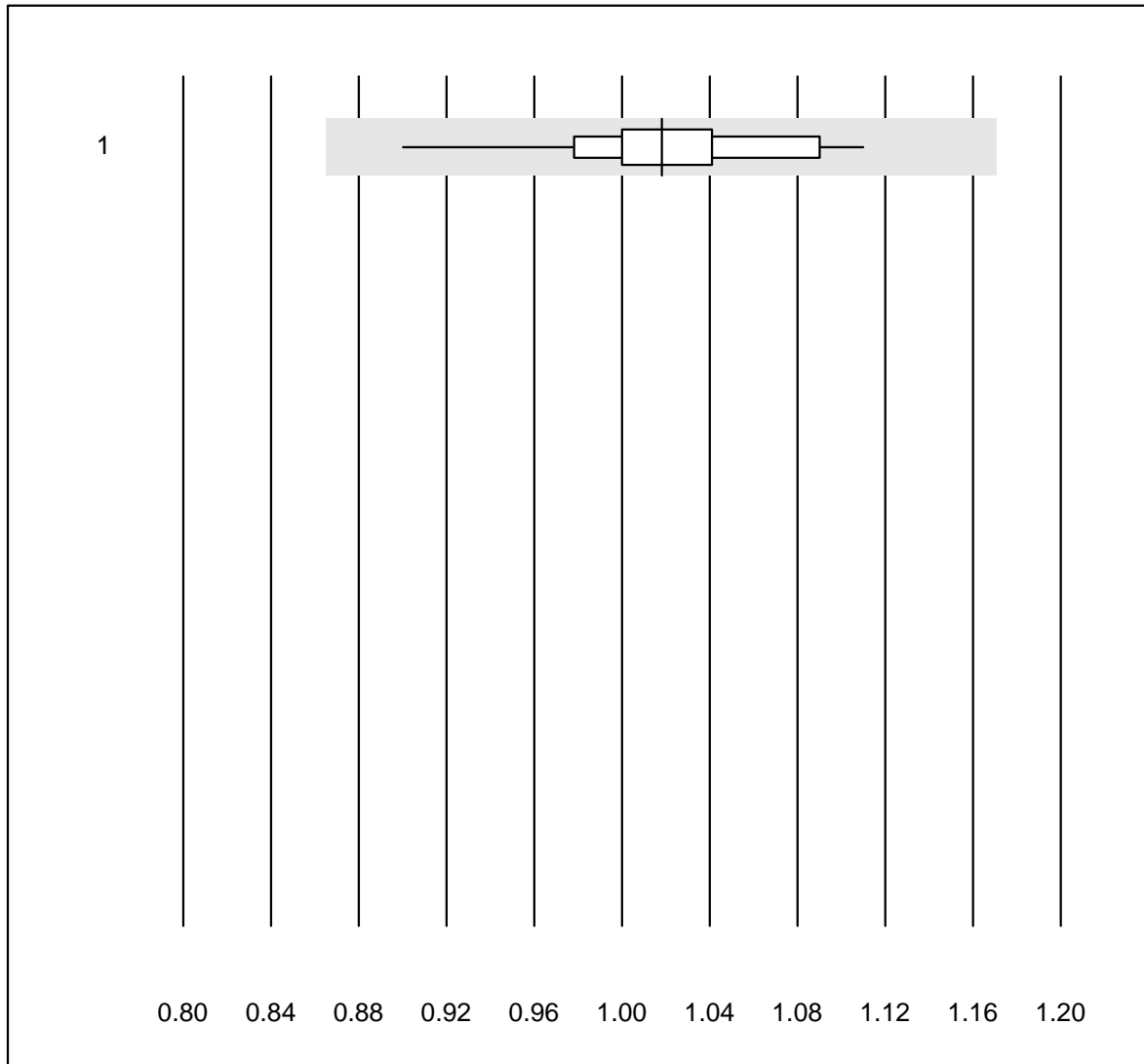


QUALAB tolerance : 15 %

Urea - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	14	100.0	0.0	0.0	207	3.5	e

Uric Acid - Urine

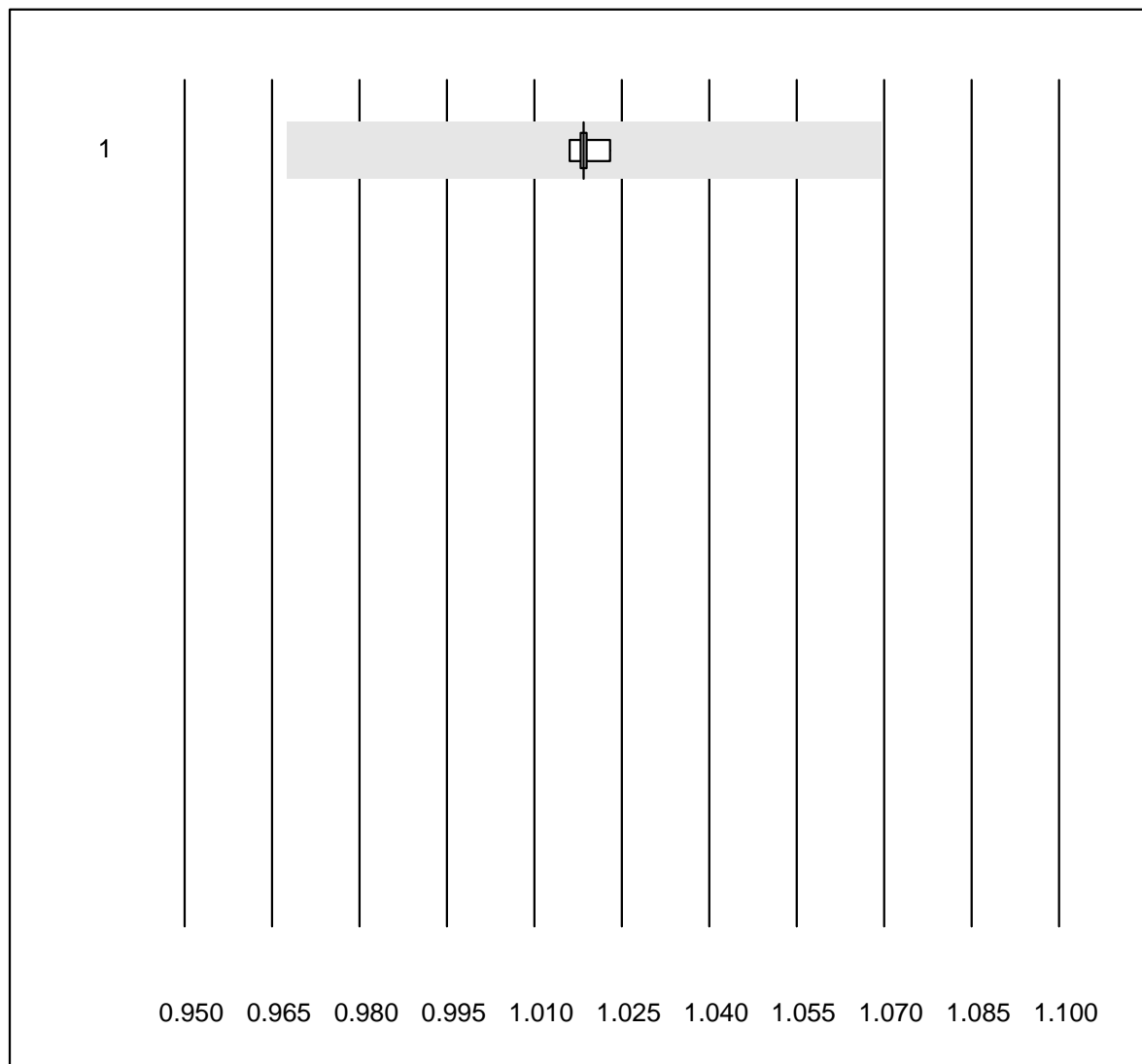


QUALAB tolerance : 15 %

Uric Acid - Urine (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	13	100.0	0.0	0.0	1.02	5.1	e

Specific Gravity - Urine



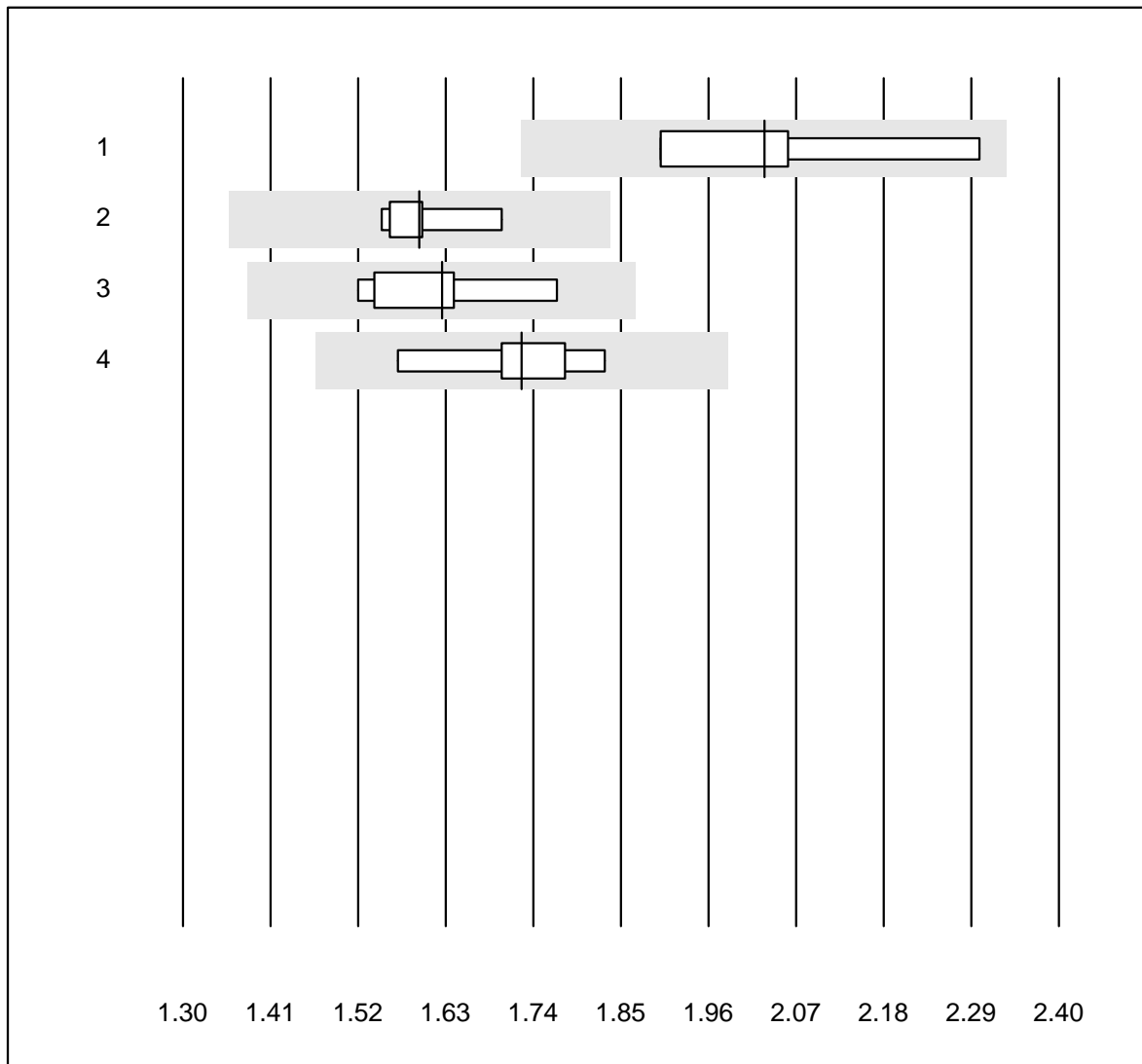
QUALAB tolerance : 5 %

Specific Gravity - Urine ()

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Refractometer	6	100.0	0.0	0.0	1.019	0.2	e

G1 Coagulation INR

INR

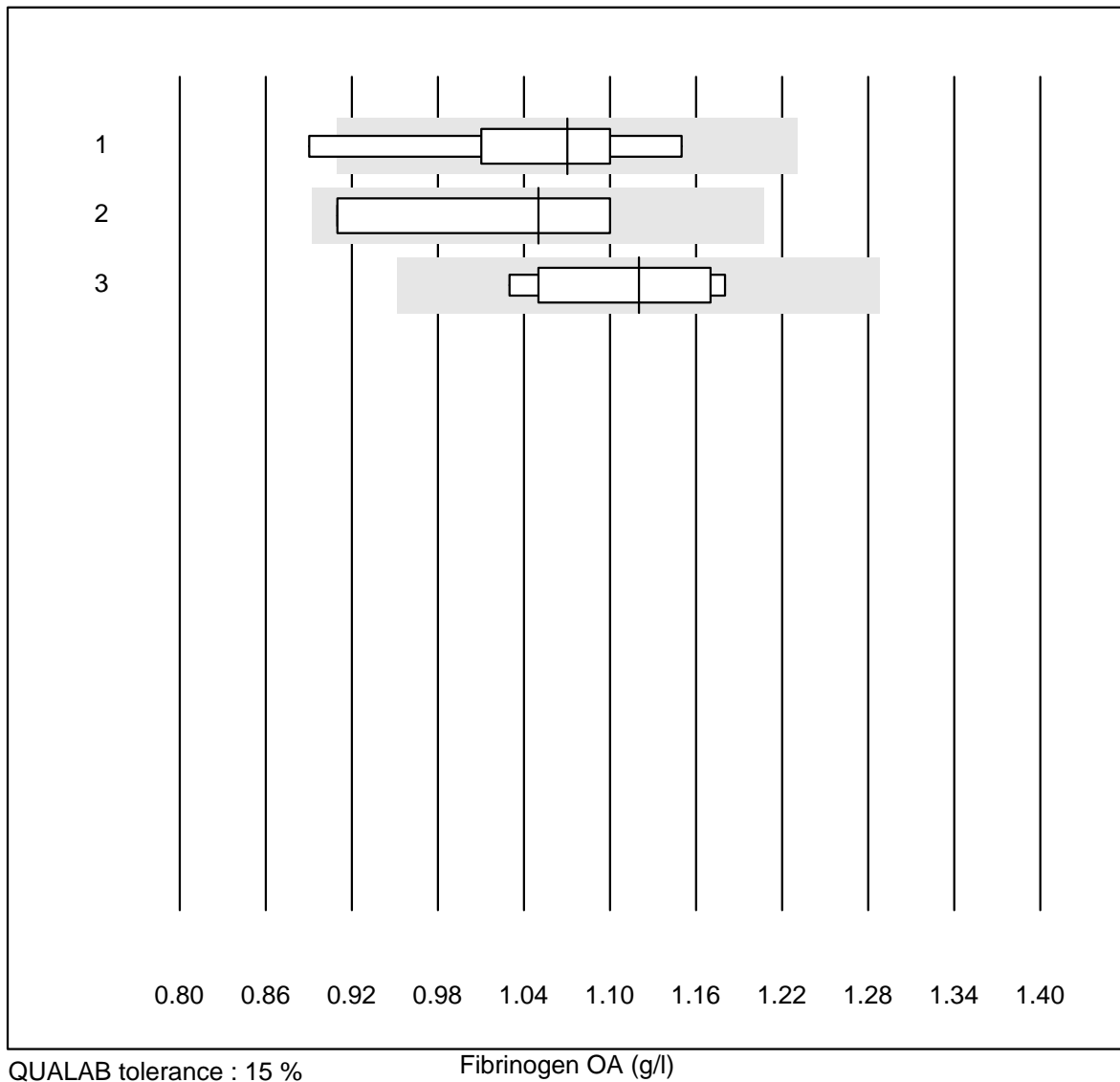


QUALAB tolerance : 15 %

INR ()

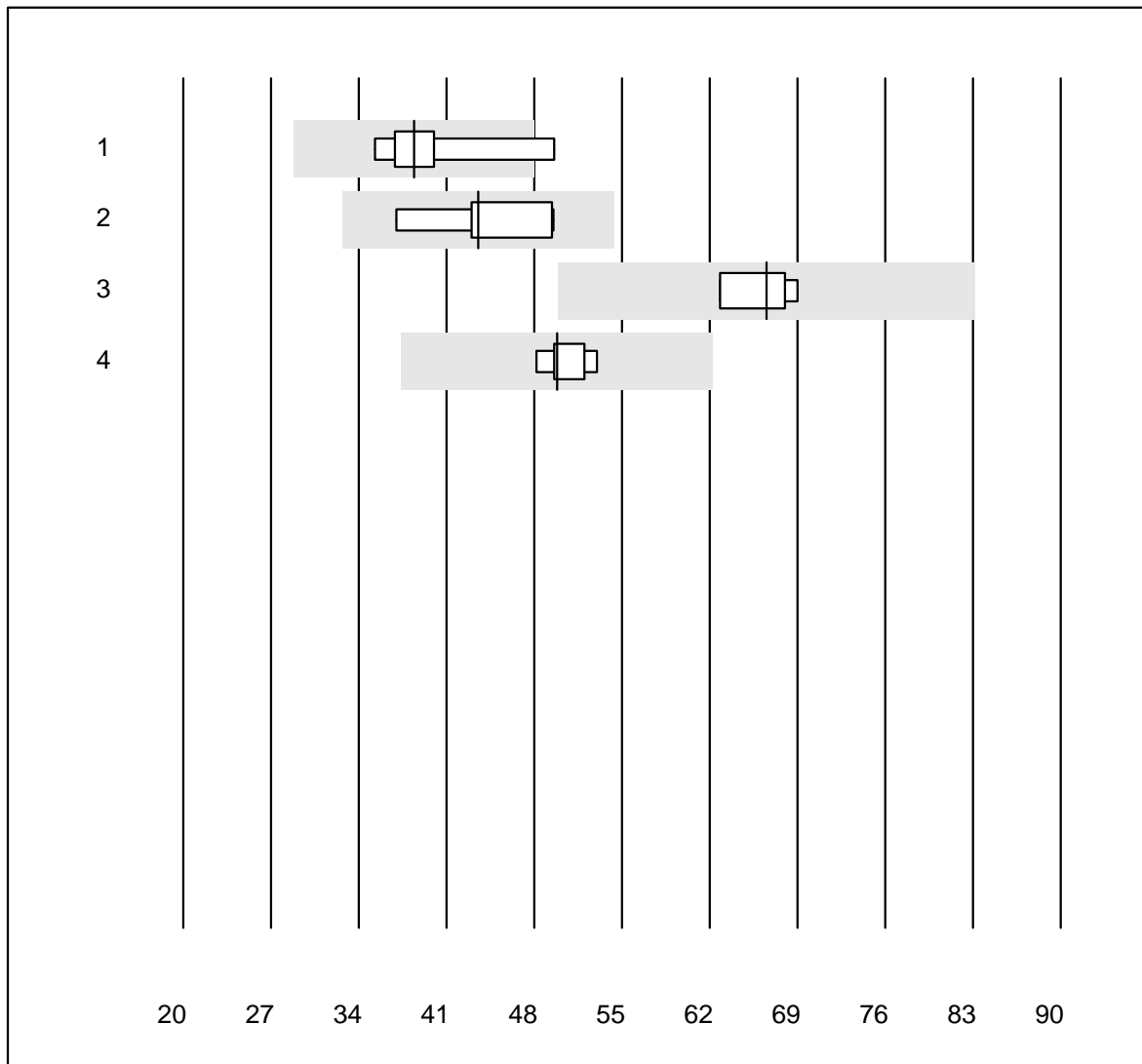
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Neoplastin Plus	5	100.0	0.0	0.0	2.03	8.0	e*
2	Innovin	16	100.0	0.0	0.0	1.60	3.0	e
3	Recombiplastin 2G	6	100.0	0.0	0.0	1.63	5.5	e*
4	Neoplastin R	8	100.0	0.0	0.0	1.73	4.7	e

Fibrinogen OA



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Other methods	9	77.8	22.2	0.0	1.07	9.2	e*
2	Siemens Thrombin	4	100.0	0.0	0.0	1.05	8.9	e*
3	Stago/STA	7	100.0	0.0	0.0	1.12	5.3	e*

Activated Prothrombin Time

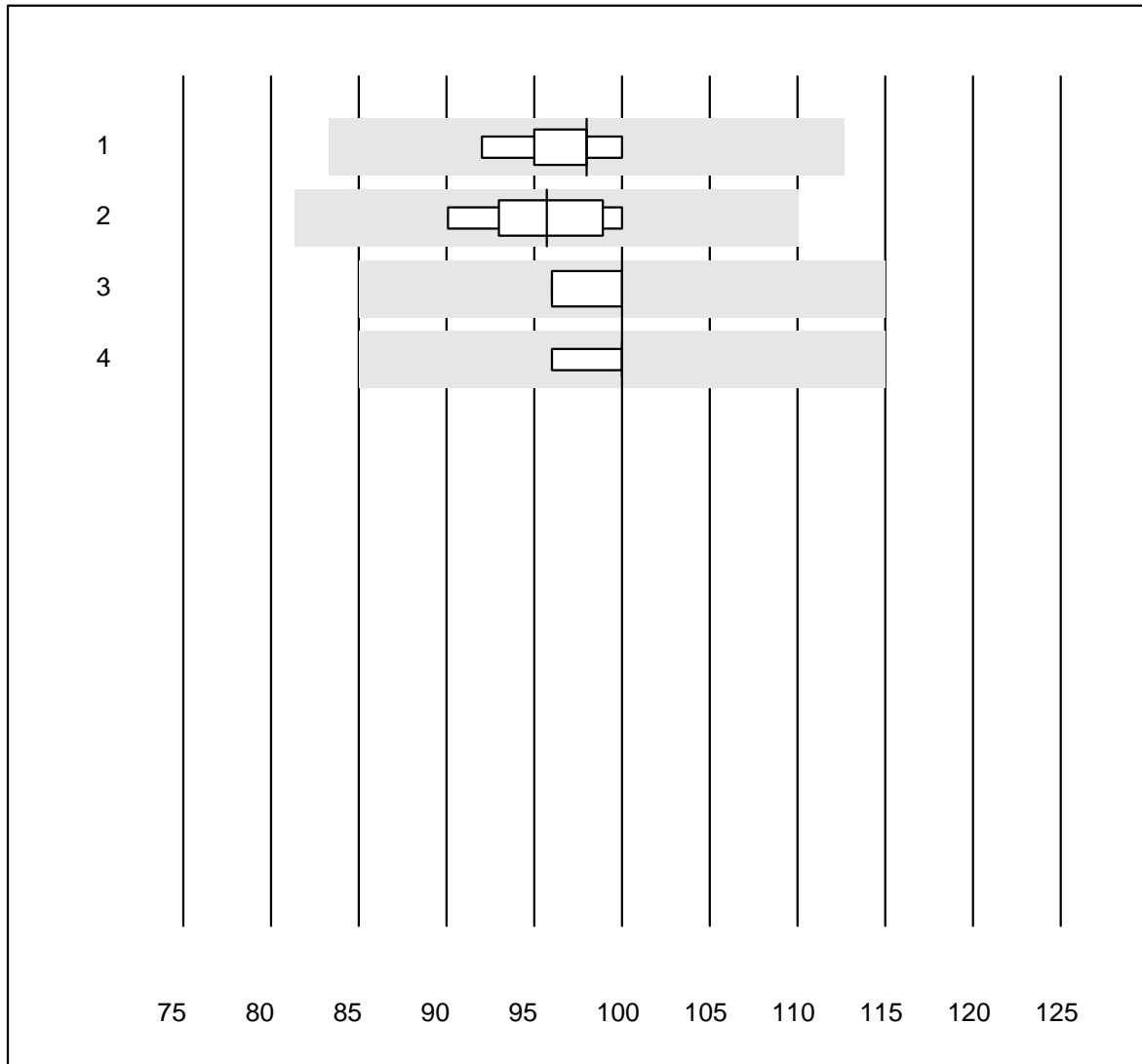


QUALAB tolerance : 25 %

Activated Prothrombin Time (Sek)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Other methods	9	88.9	11.1	0.0	38.4	10.9	e*
2	Actin FS	7	85.7	0.0	14.3	43.5	10.6	e*
3	Pathromtin SL	4	100.0	0.0	0.0	66.5	4.3	e
4	Stago/STA	6	100.0	0.0	0.0	49.8	3.5	e

Prothrombin time NT

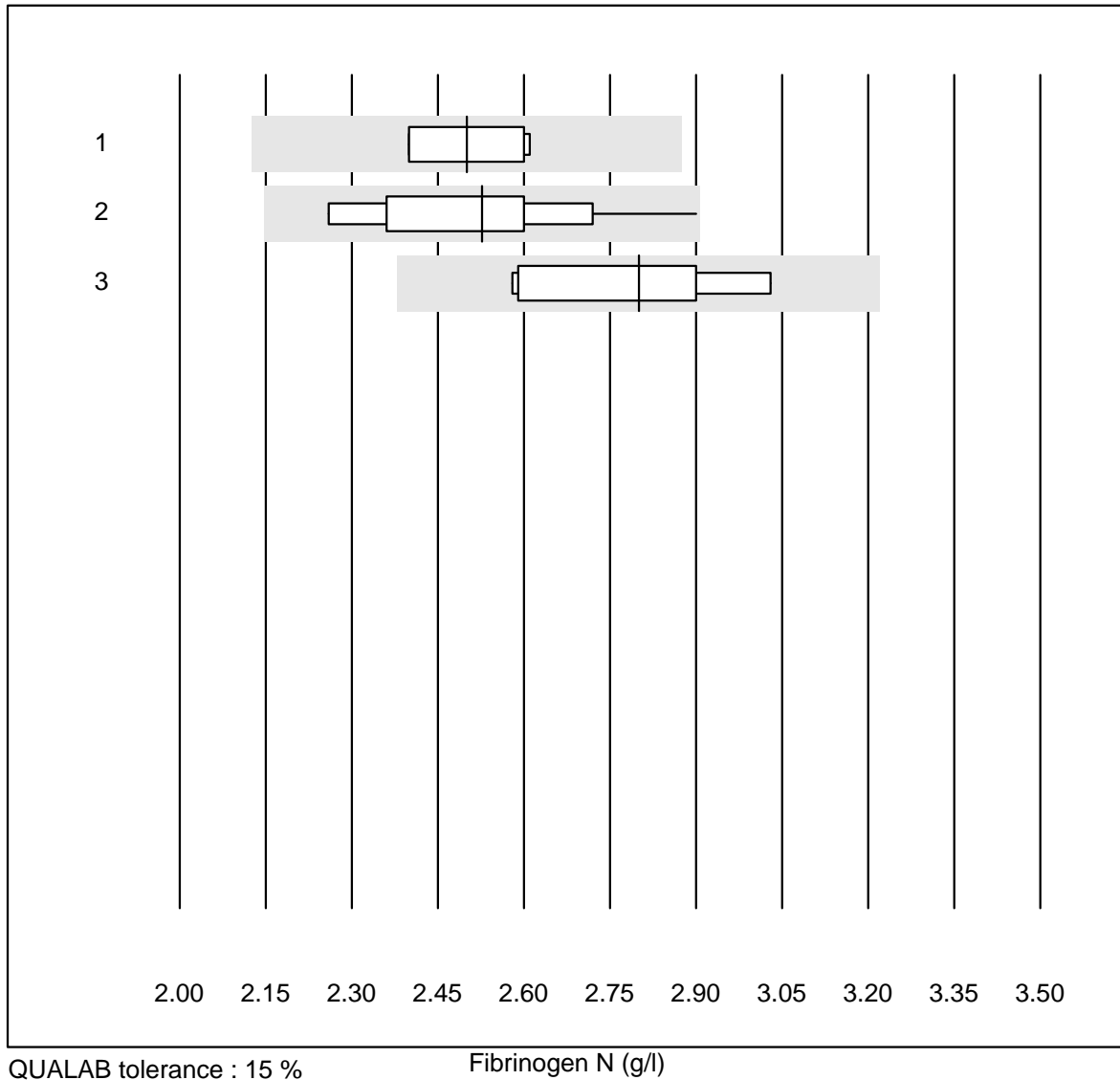


QUALAB tolerance : 15 %

Prothrombin time NT (%)

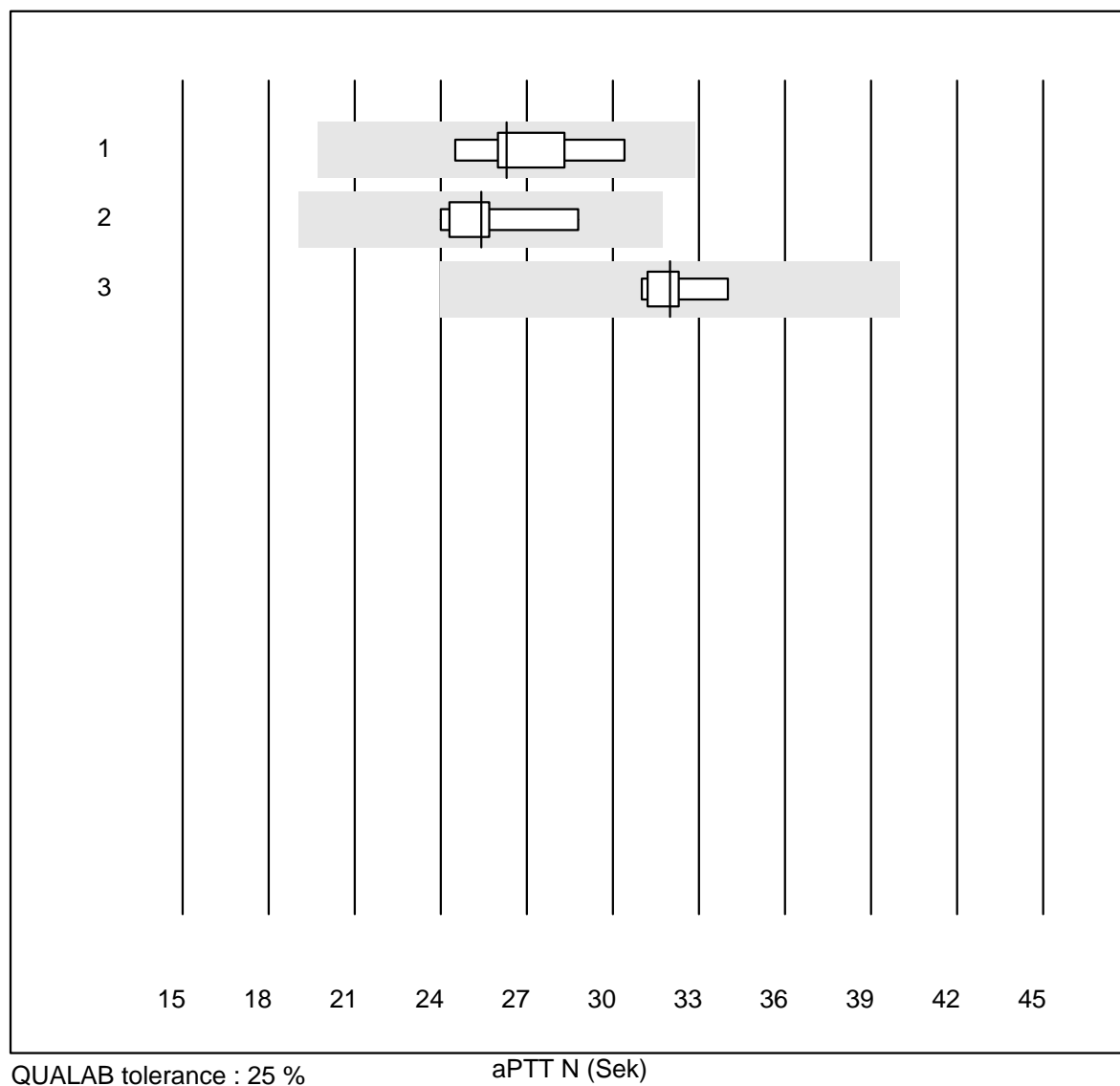
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Neoplastin R	5	100.0	0.0	0.0	98	3.2	e
2	Innovin	10	100.0	0.0	0.0	96	3.5	e
3	all Participants	4	100.0	0.0	0.0	100	2.0	e
4	Recombiplastin 2G	7	100.0	0.0	0.0	100	1.5	e

Fibrinogen N



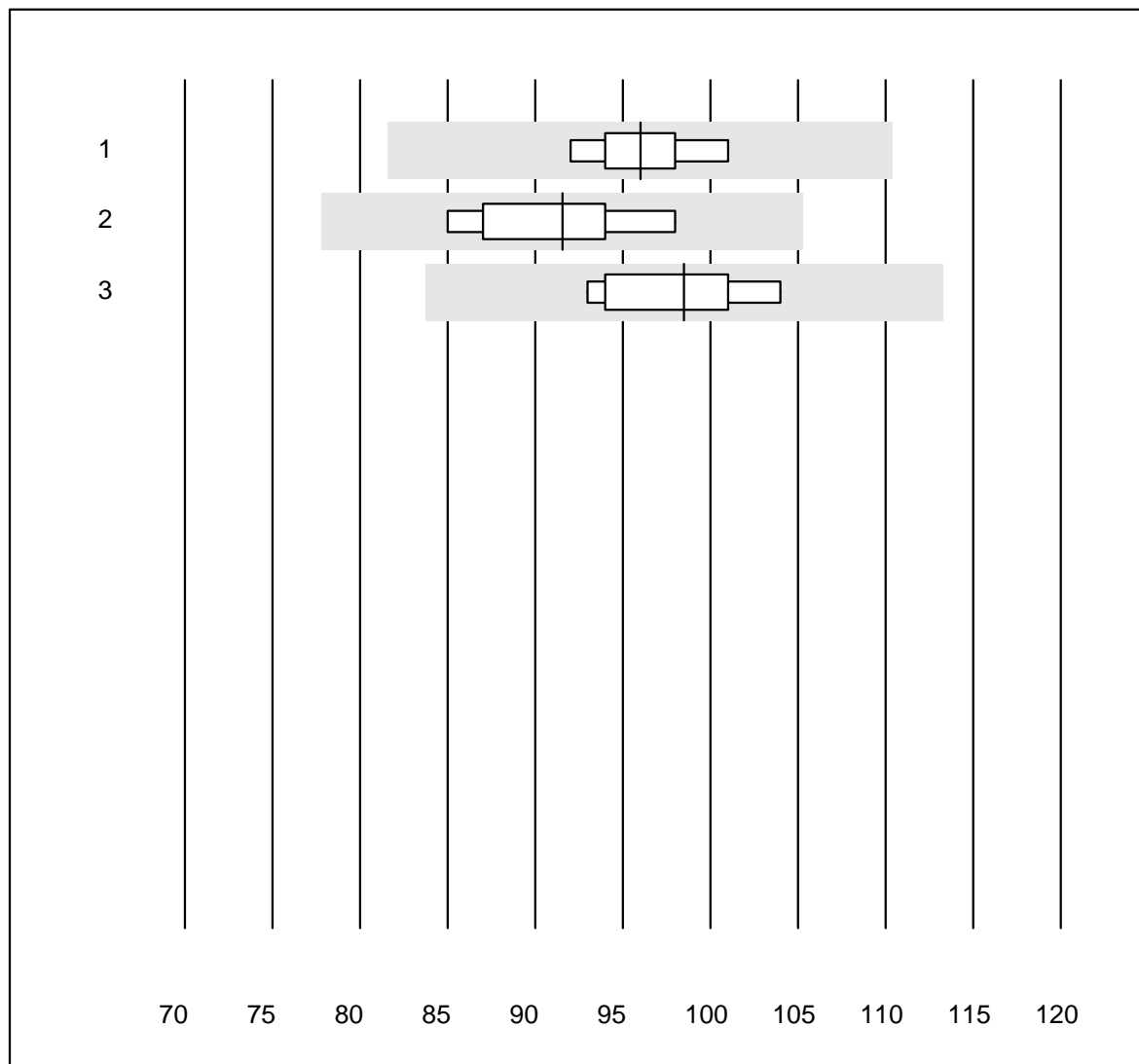
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Siemens Thrombin	4	100.0	0.0	0.0	2.50	4.7	e*
2	Other methods	10	100.0	0.0	0.0	2.53	7.5	e*
3	Stago/STA	7	100.0	0.0	0.0	2.80	6.3	e*

aPTT N



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Actin FS	7	100.0	0.0	0.0	26.3	7.1	e
2	Other methods	9	100.0	0.0	0.0	25.4	5.7	e
3	Stago/STA	7	100.0	0.0	0.0	32.0	3.0	e

Prothrombin time HT

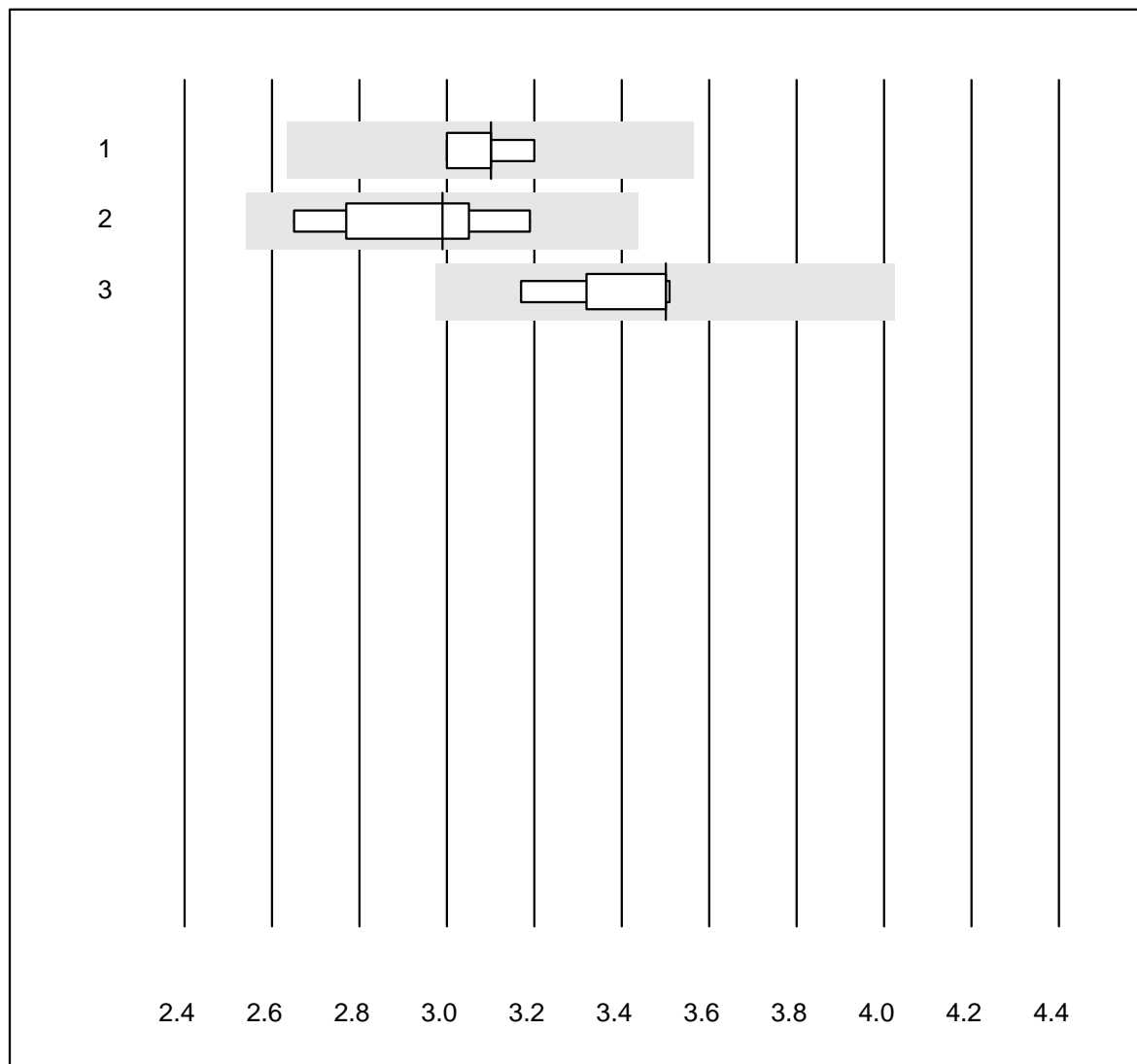


QUALAB tolerance : 15 %

Prothrombin time HT (%)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Neoplastin R	5	100.0	0.0	0.0	96	3.6	e
2	Innovin	8	100.0	0.0	0.0	92	4.6	e
3	Recombiplastin 2G	6	100.0	0.0	0.0	99	4.3	e

Fibrinogen H

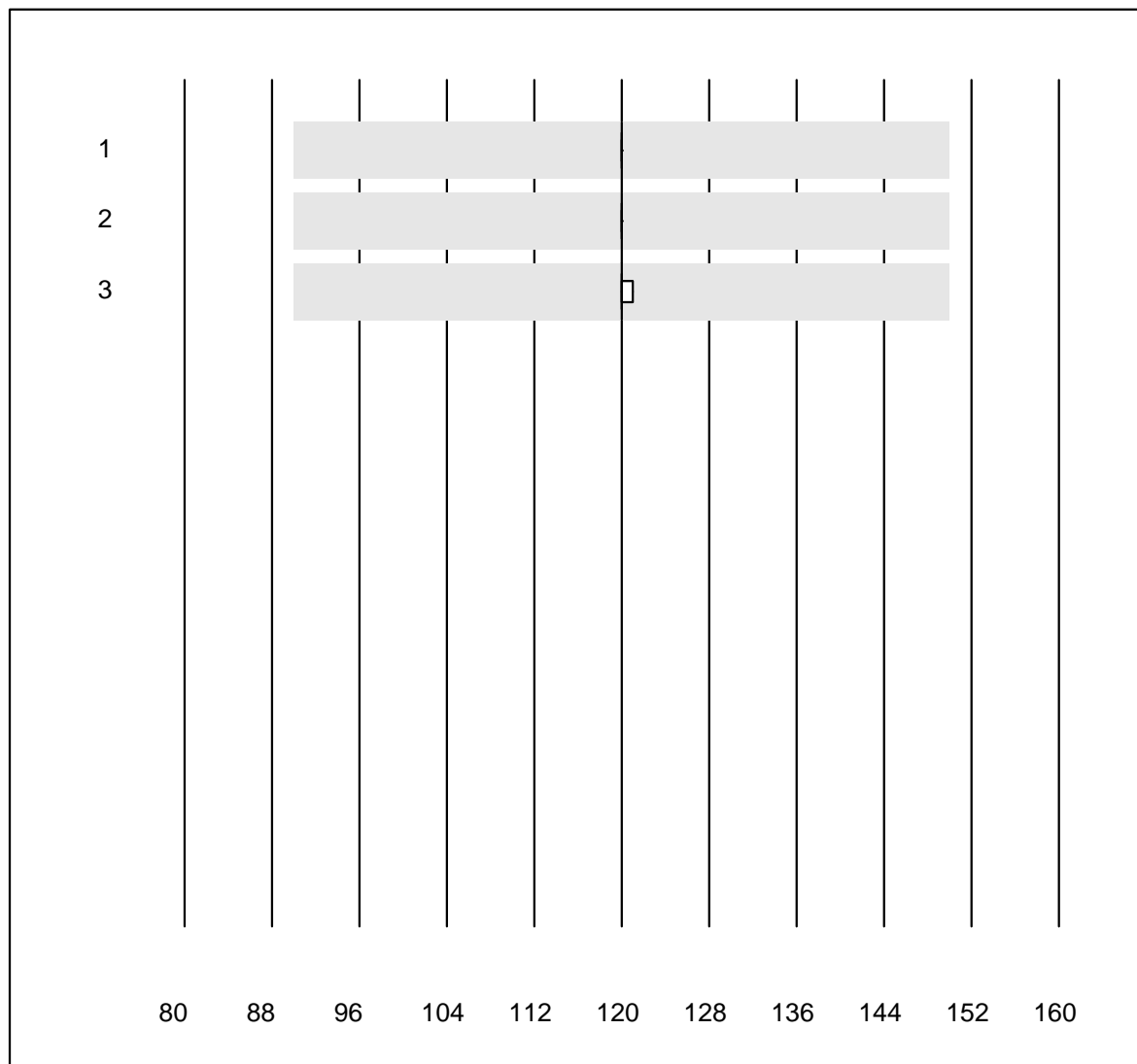


QUALAB tolerance : 15 %

Fibrinogen H (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Siemens Thrombin	4	100.0	0.0	0.0	3.10	2.6	e
2	Other methods	8	100.0	0.0	0.0	2.99	6.5	e*
3	Stago/STA	5	100.0	0.0	0.0	3.50	4.4	e*

aPTT H

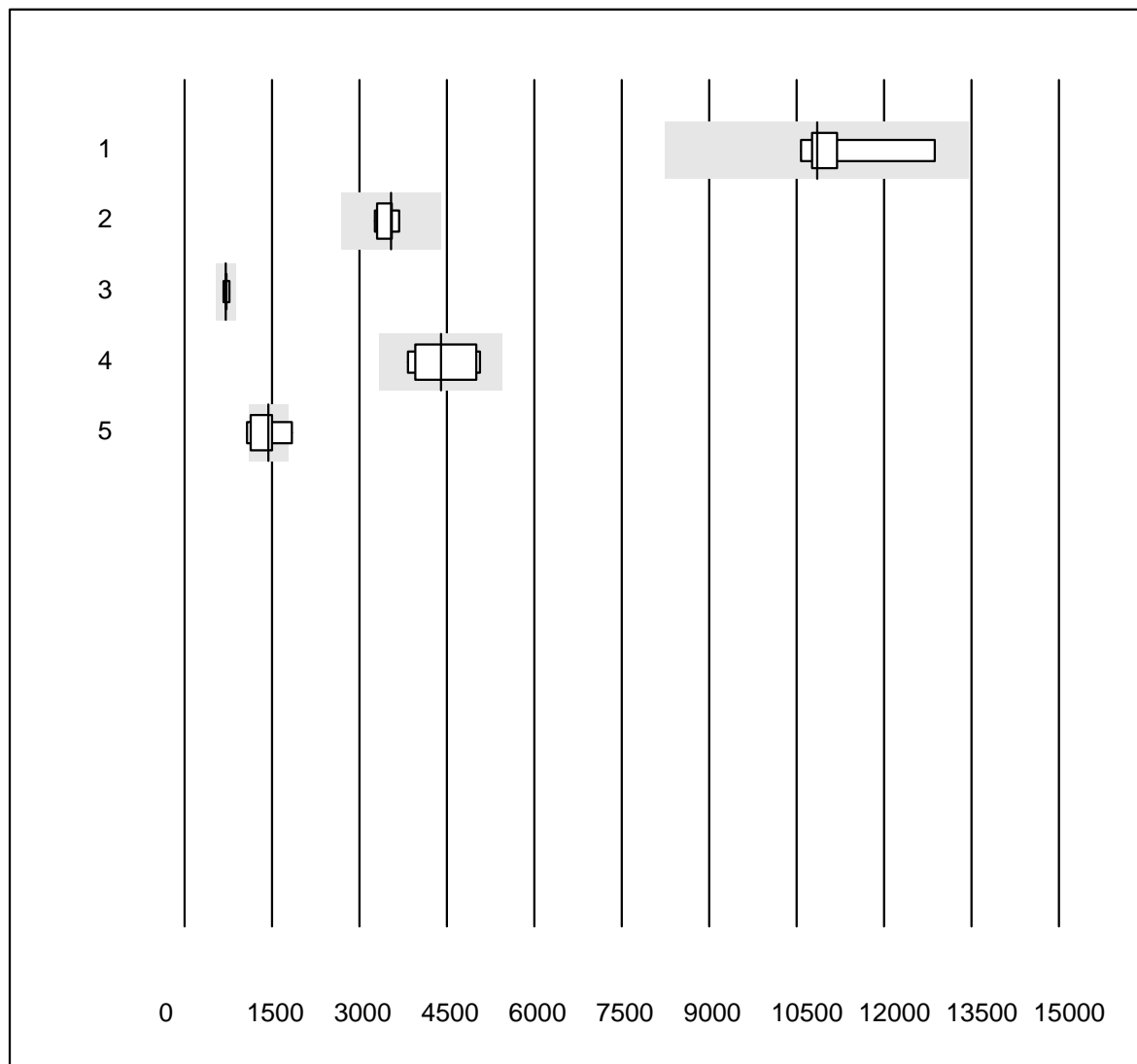


QUALAB tolerance : 25 %

aPTT H (Sek)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Actin FS	6	83.3	0.0	16.7	120.0	0.0	e
2	Other methods	4	100.0	0.0	0.0	120.0	0.0	e
3	Stago/STA	5	80.0	0.0	20.0	120.0	0.4	e

Troponin I

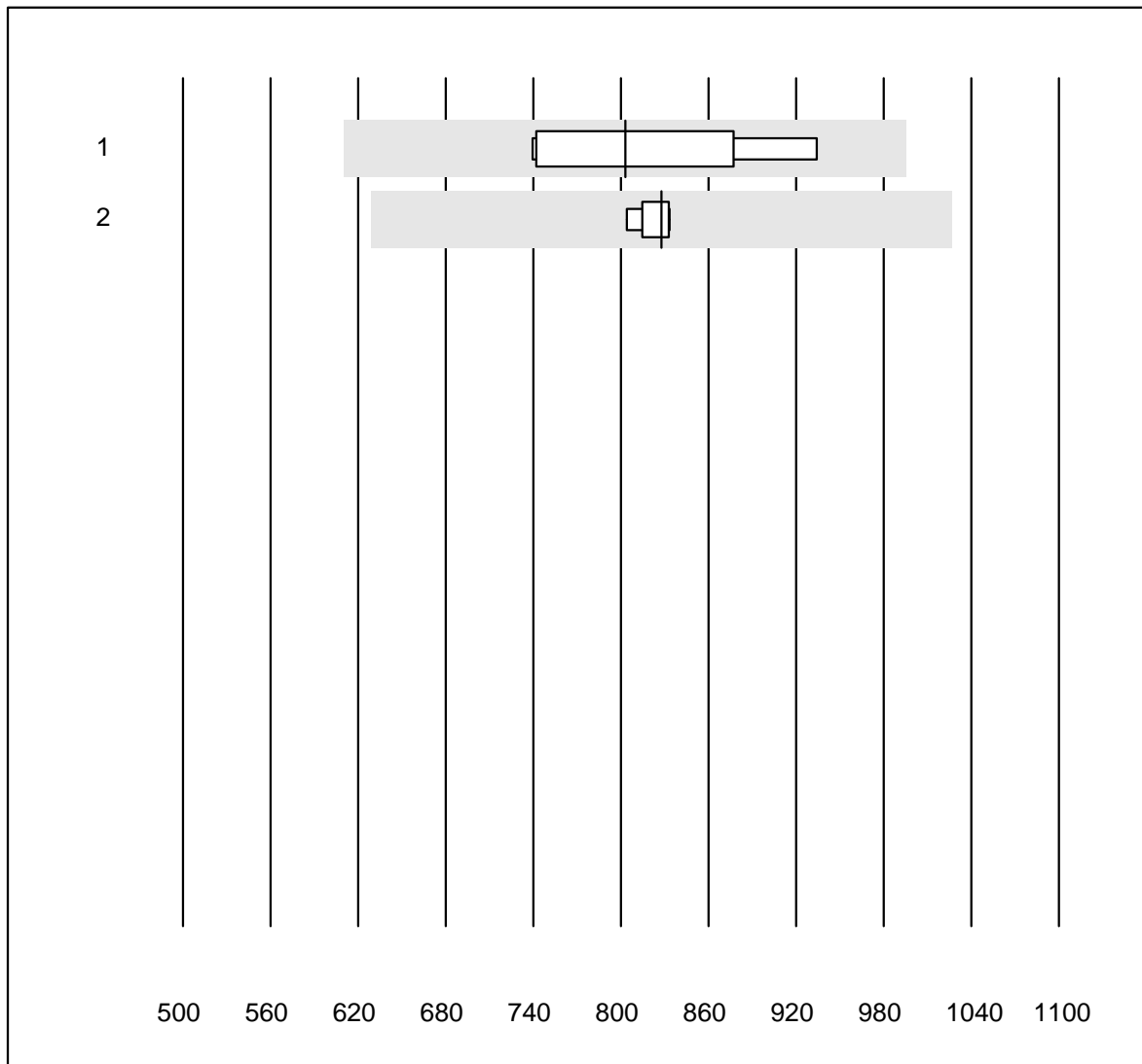


QUALAB tolerance : 24 %

Troponin I (ng/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Vidas	5	100.0	0.0	0.0	10850.0	8.3	e*
2	Architect High Sensi	5	100.0	0.0	0.0	3548.0	5.2	e
3	AQT 90 FLEX	6	100.0	0.0	0.0	710.0	4.6	e
4	ADVIA Centaur XP/CP	5	100.0	0.0	0.0	4393.0	13.5	a
5	Eurolyser	10	40.0	20.0	40.0	1437.1	21.1	e*

Troponin T

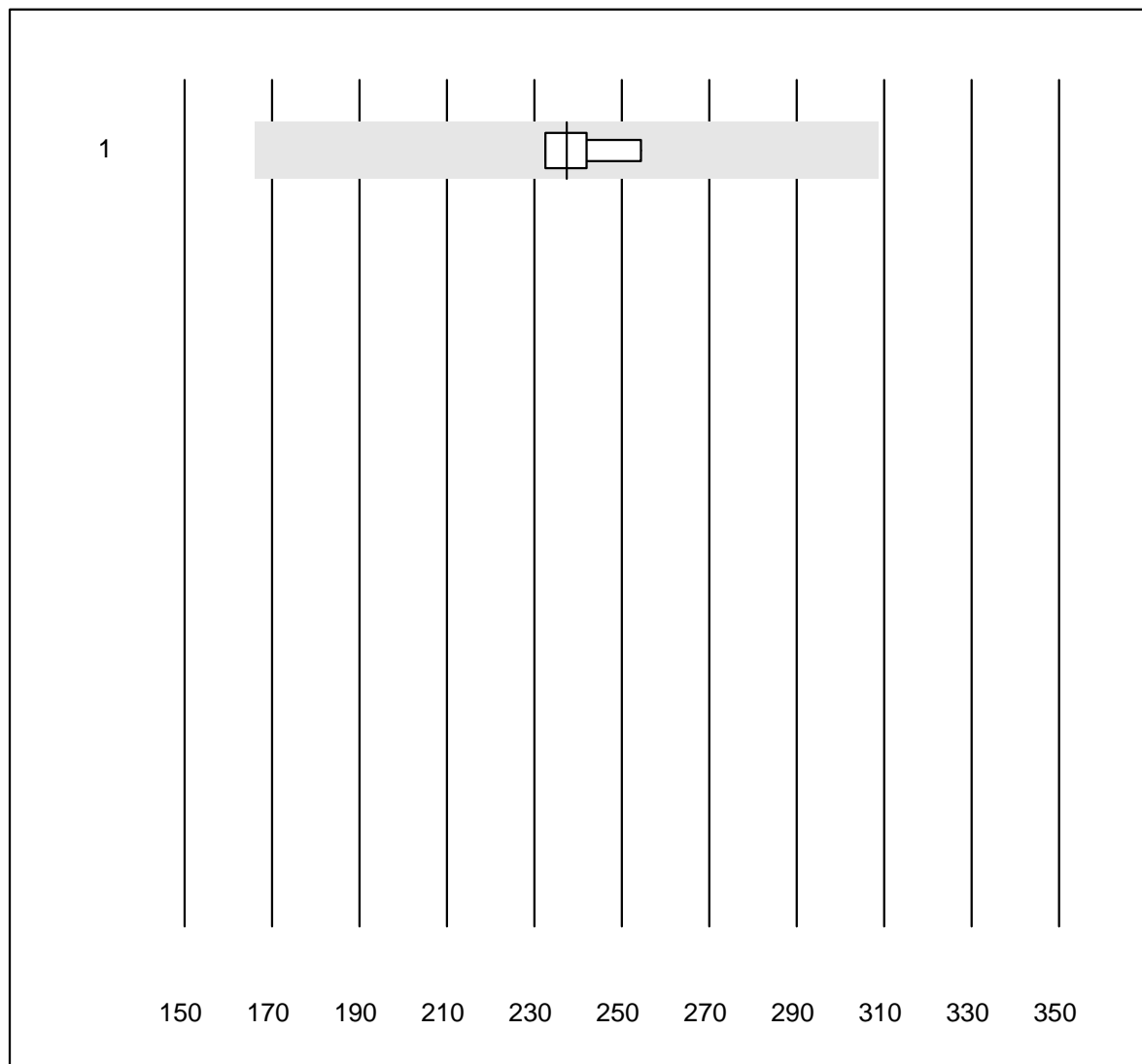


QUALAB tolerance : 24 %

Troponin T (ng/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas hs	5	100.0	0.0	0.0	803.00	10.4	e*
2	Cobas hs STAT	6	100.0	0.0	0.0	827.95	1.4	e

Myoglobin

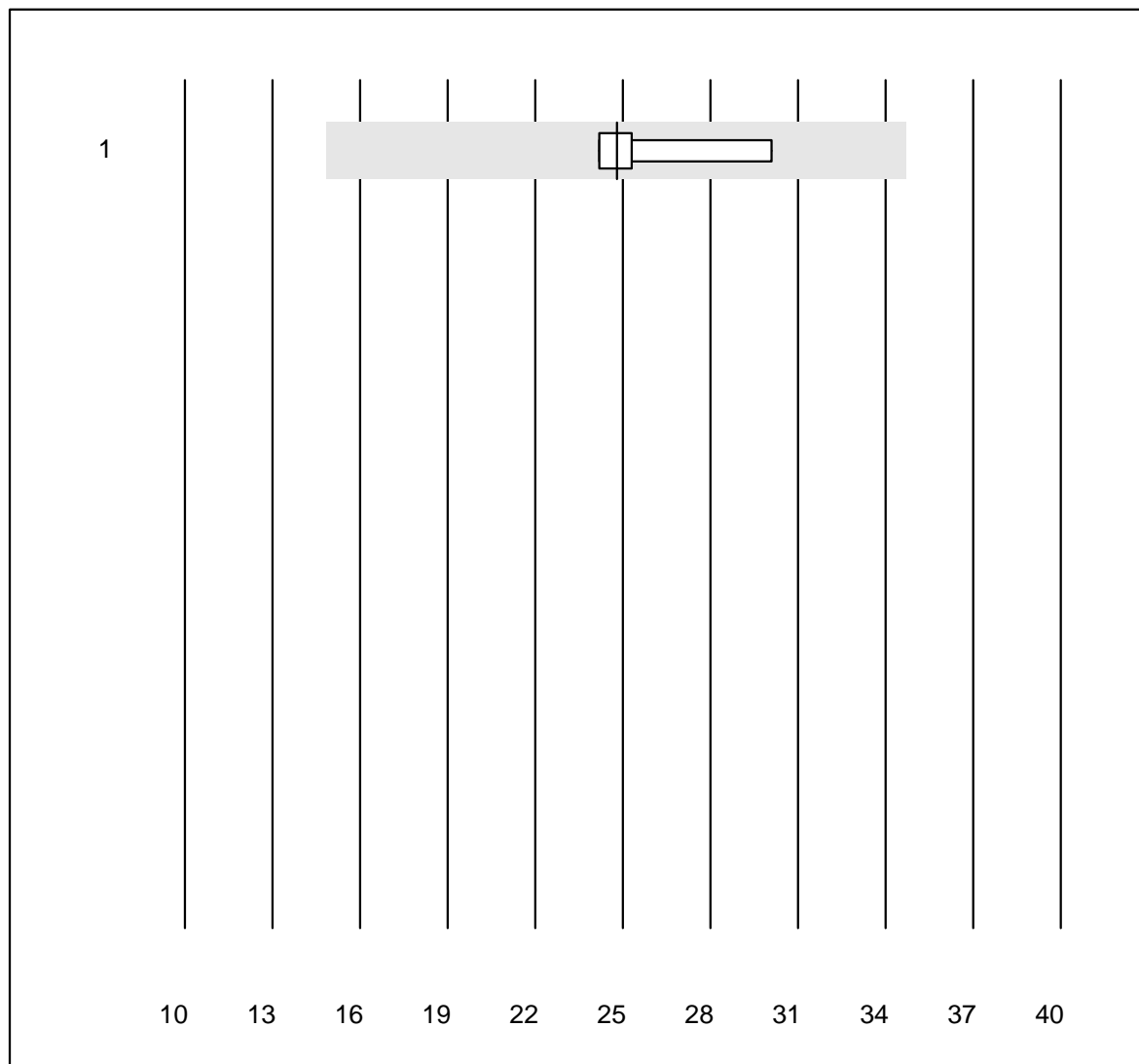


QUALAB tolerance : 30 %

Myoglobin (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Cobas E / Elecsys	4	100.0	0.0	0.0	237.4	4.3	e

CK-MB mass

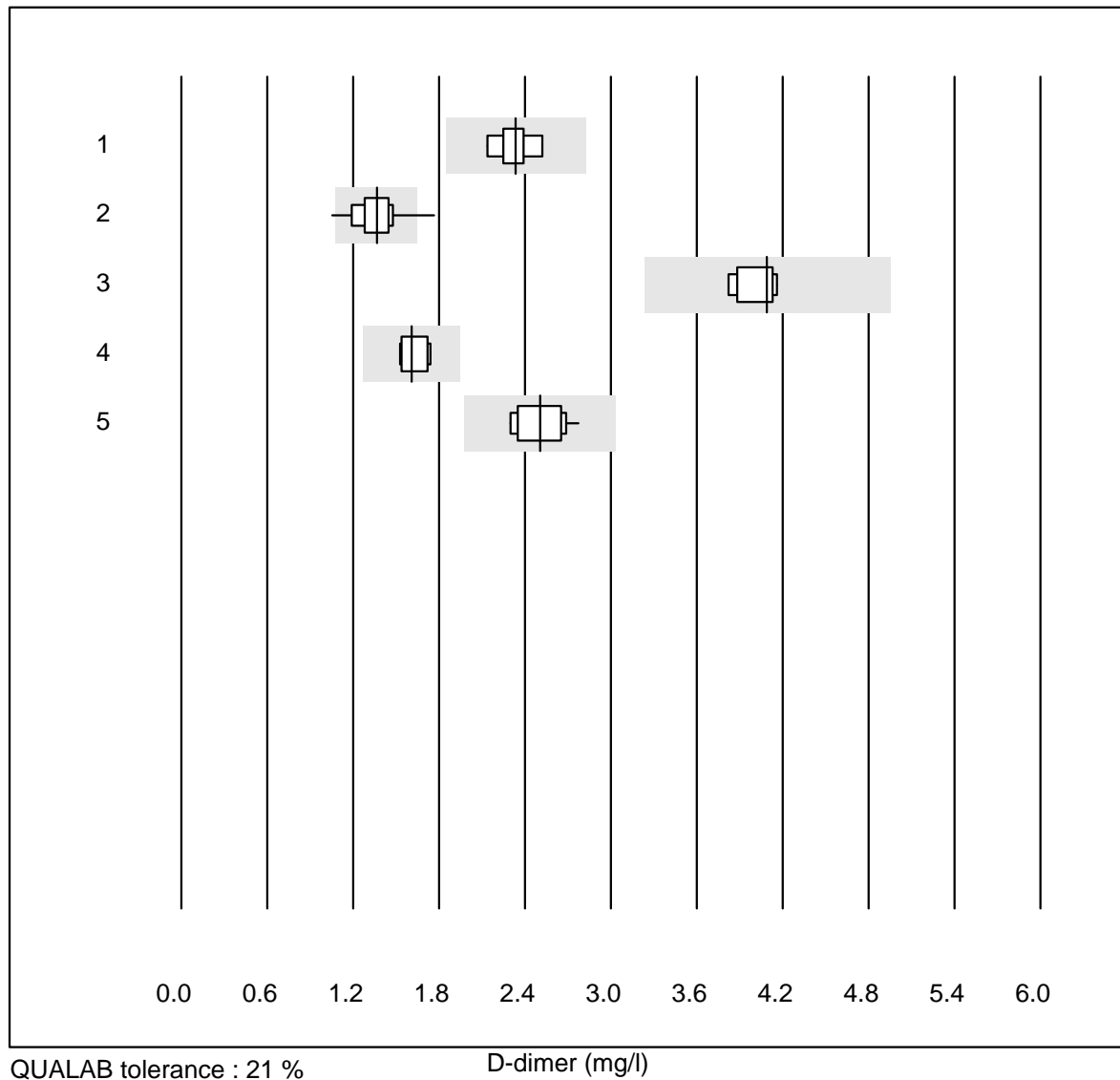


QUALAB tolerance : 40 %

CK-MB mass (µg/l)

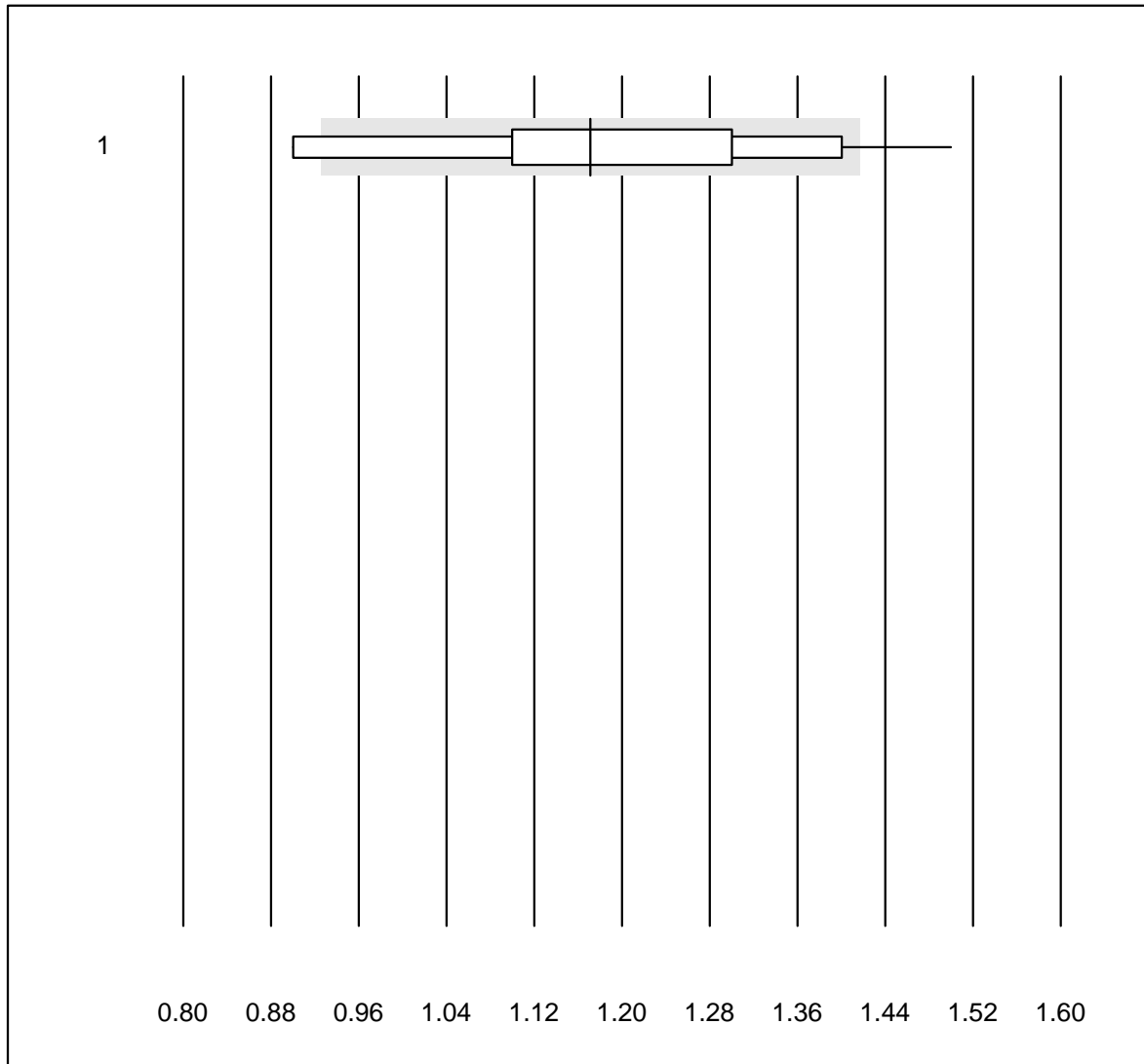
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Other methods	4	100.0	0.0	0.0	24.8	10.8	e*

D-dimer



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	STA Liatest	8	87.5	0.0	12.5	2.34	5.2	e
2	Eurolyser	25	88.0	8.0	4.0	1.36	10.5	e
3	ACL	5	100.0	0.0	0.0	4.09	3.9	e
4	AQT 90 FLEX	7	100.0	0.0	0.0	1.61	5.5	e
5	Vidas	10	100.0	0.0	0.0	2.50	6.9	e

D-Dimer NC



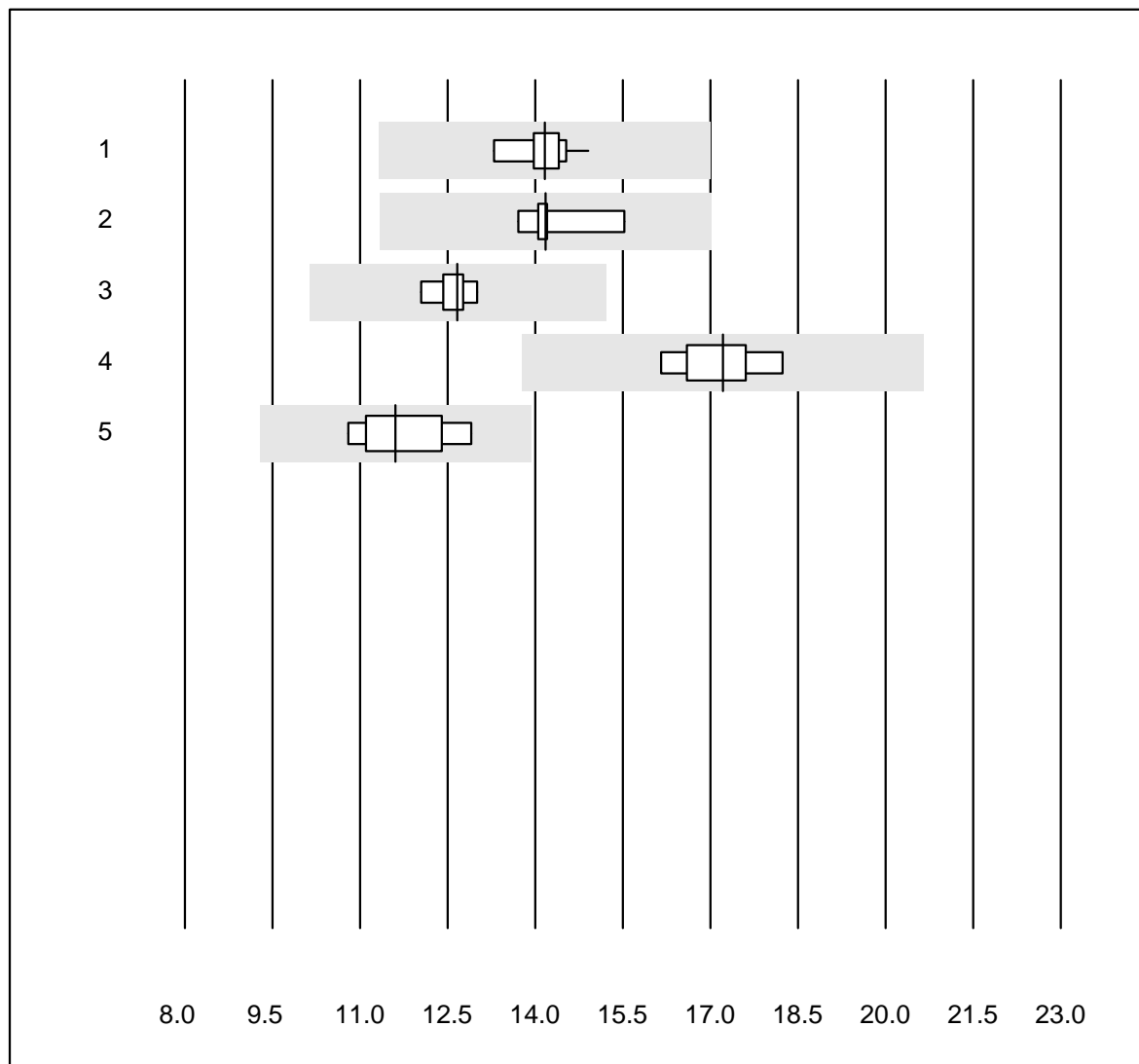
QUALAB tolerance : 21 %

D-Dimer NC (mg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	NycoCard	30	56.7	13.3	30.0	1.17	14.8	e*

K6 Hormones

TSH



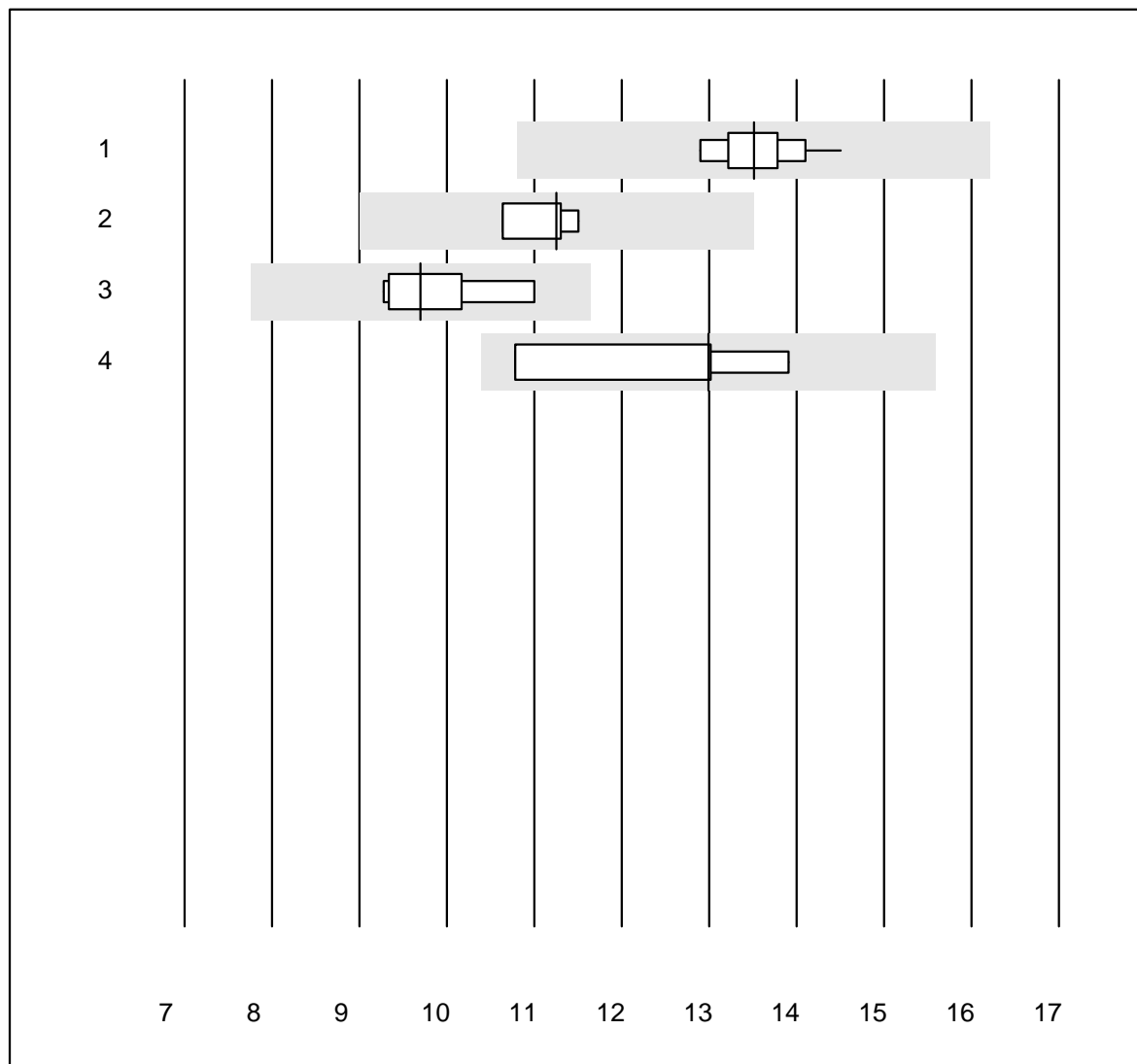
QUALAB tolerance : 20 %

TSH (mU/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	10	100.0	0.0	0.0	14.2	3.1	e
2	ADVIA Centaur XP/CP	5	100.0	0.0	0.0	14.2	4.9	e
3	Architect	8	100.0	0.0	0.0	12.7	2.3	e
4	Vidas	10	90.0	0.0	10.0	17.2	4.2	e
5	Qualigen	5	100.0	0.0	0.0	11.6	7.5	e*

K6 Hormones

FT3



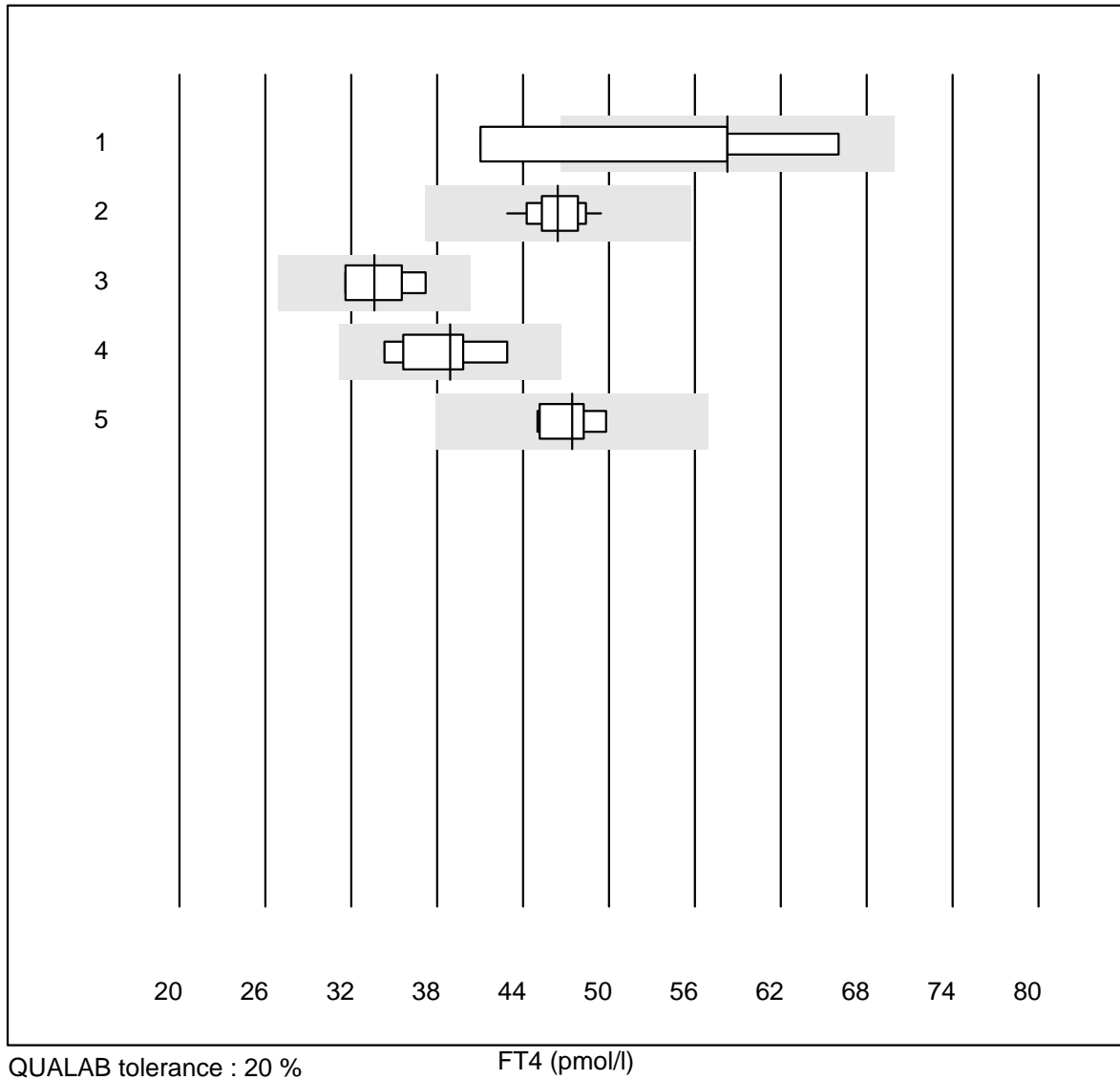
QUALAB tolerance : 20 %

FT3 (pmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	10	100.0	0.0	0.0	13.5	3.7	e
2	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	11.3	3.3	e
3	Architect	7	100.0	0.0	0.0	9.7	6.2	e
4	Vidas	4	100.0	0.0	0.0	13.0	10.5	e*

K6 Hormones

FT4

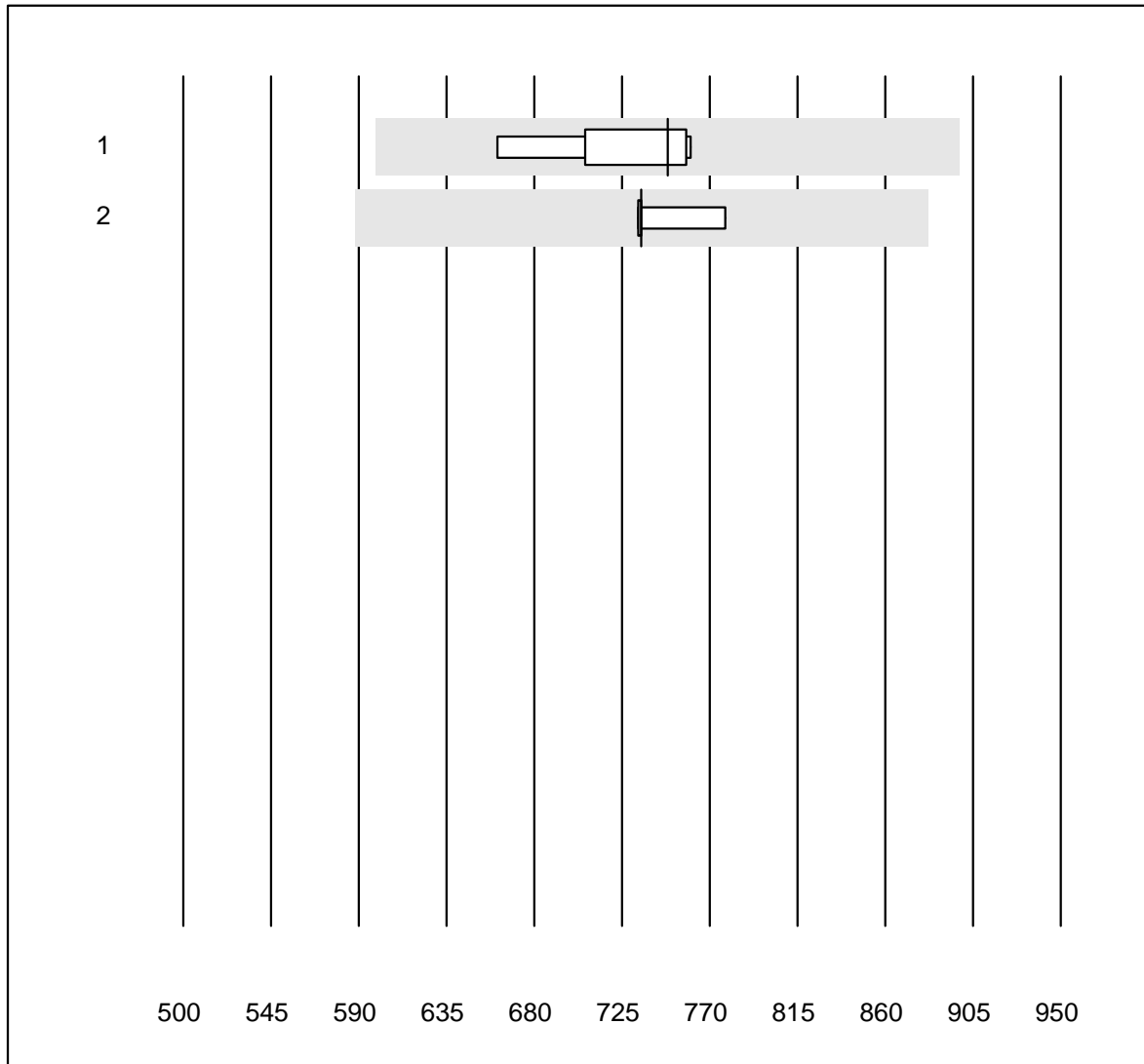


QUALAB tolerance : 20 %

FT4 (pmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Qualigen	4	75.0	25.0	0.0	58.3	18.9	e*
2	Cobas E / Elecsys	11	100.0	0.0	0.0	46.4	4.1	e
3	ADVIA Centaur XP	4	100.0	0.0	0.0	33.6	8.2	e*
4	Architect	8	100.0	0.0	0.0	38.9	7.2	e*
5	Vidas	6	100.0	0.0	0.0	47.4	3.9	e

Cortisol

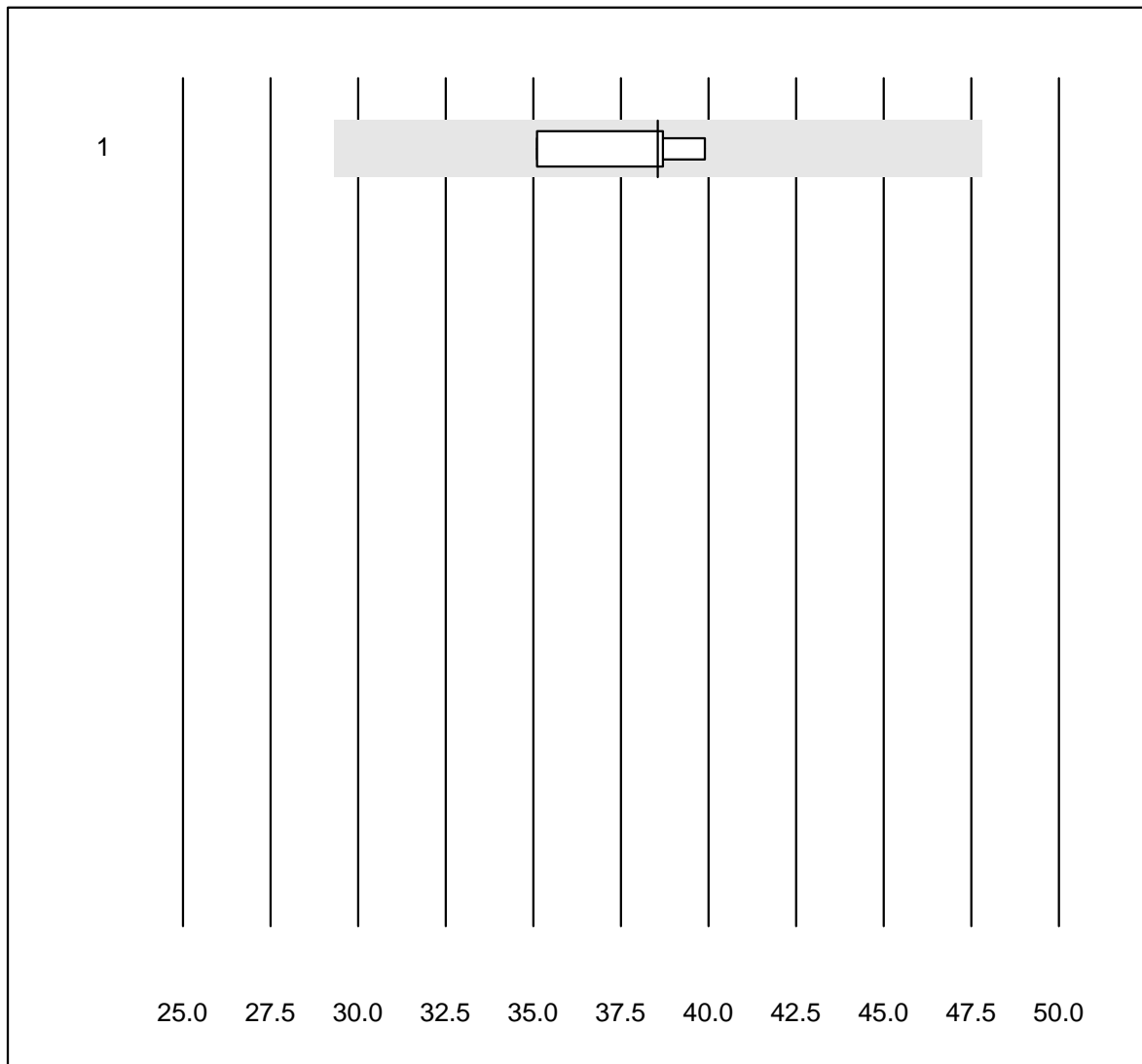


QUALAB tolerance : 20 %

Cortisol (nmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	7	100.0	0.0	0.0	748	5.0	e
2	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	735	2.9	e

Luteinizing hormone

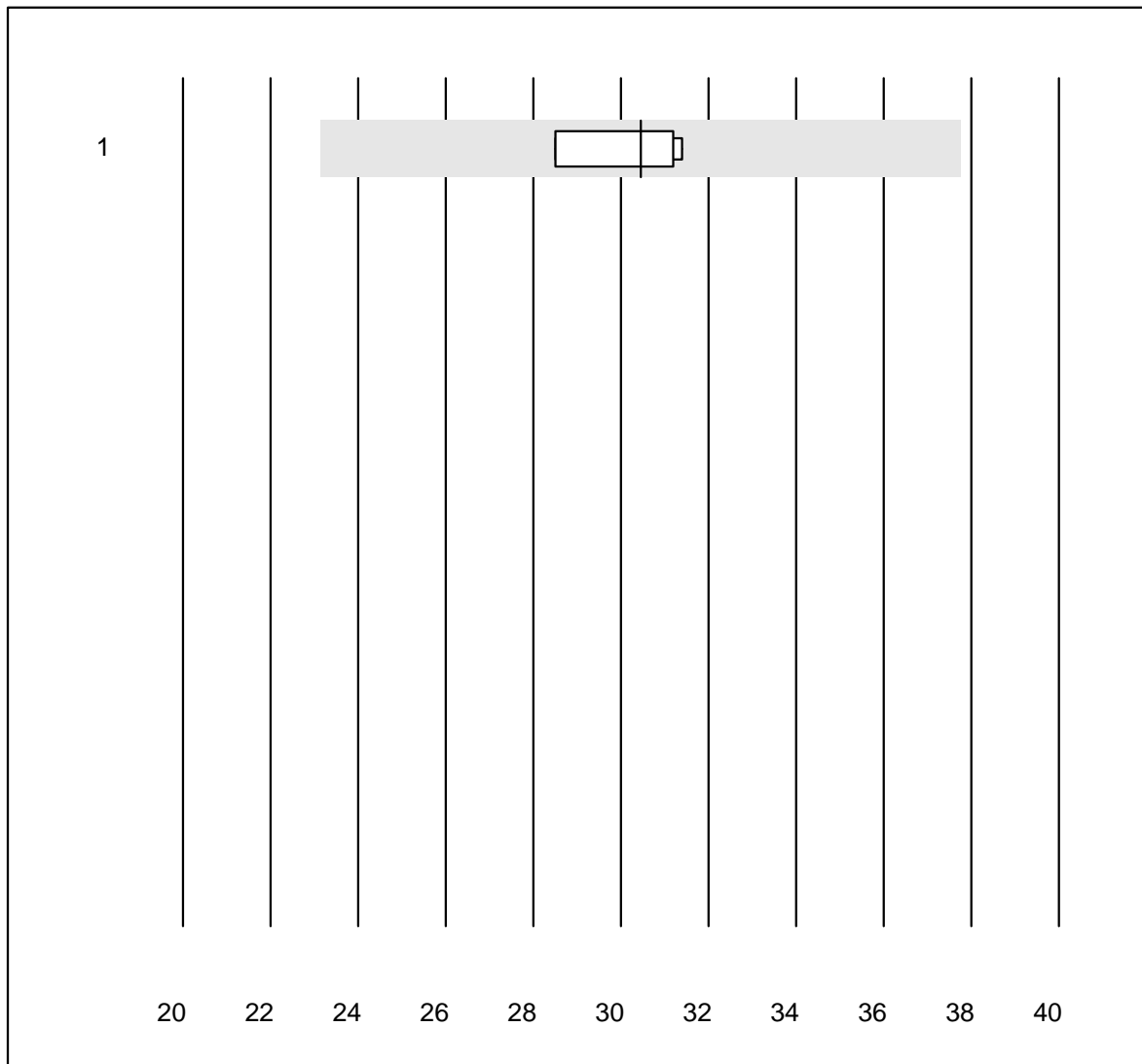


QUALAB tolerance : 24 %

Luteinizing hormone (U/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	38.6	5.4	e

Follicle-stimulating hormone

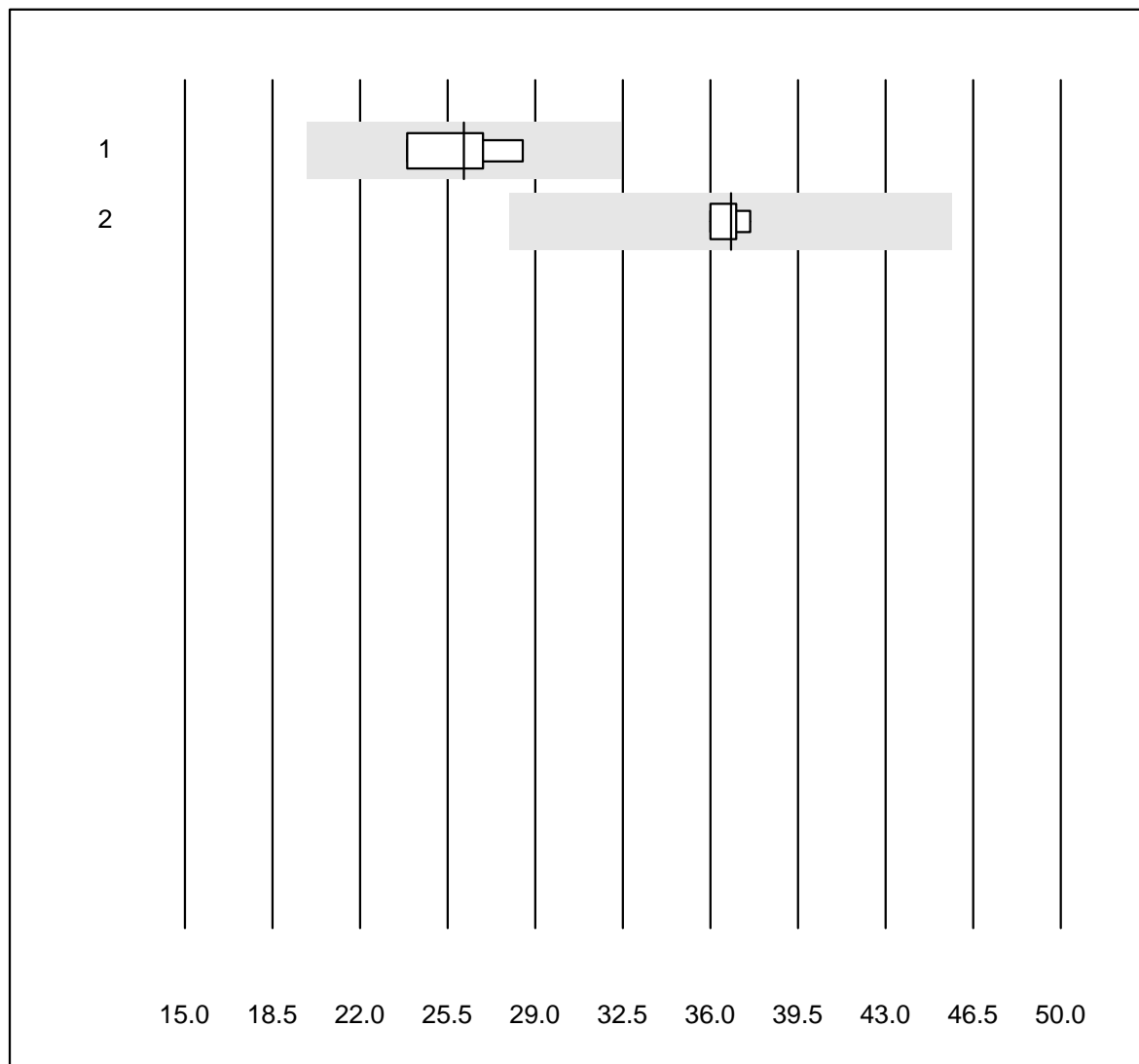


QUALAB tolerance : 24 %

Follicle-stimulating hormone (U/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	30.5	4.5	e

Prolactine

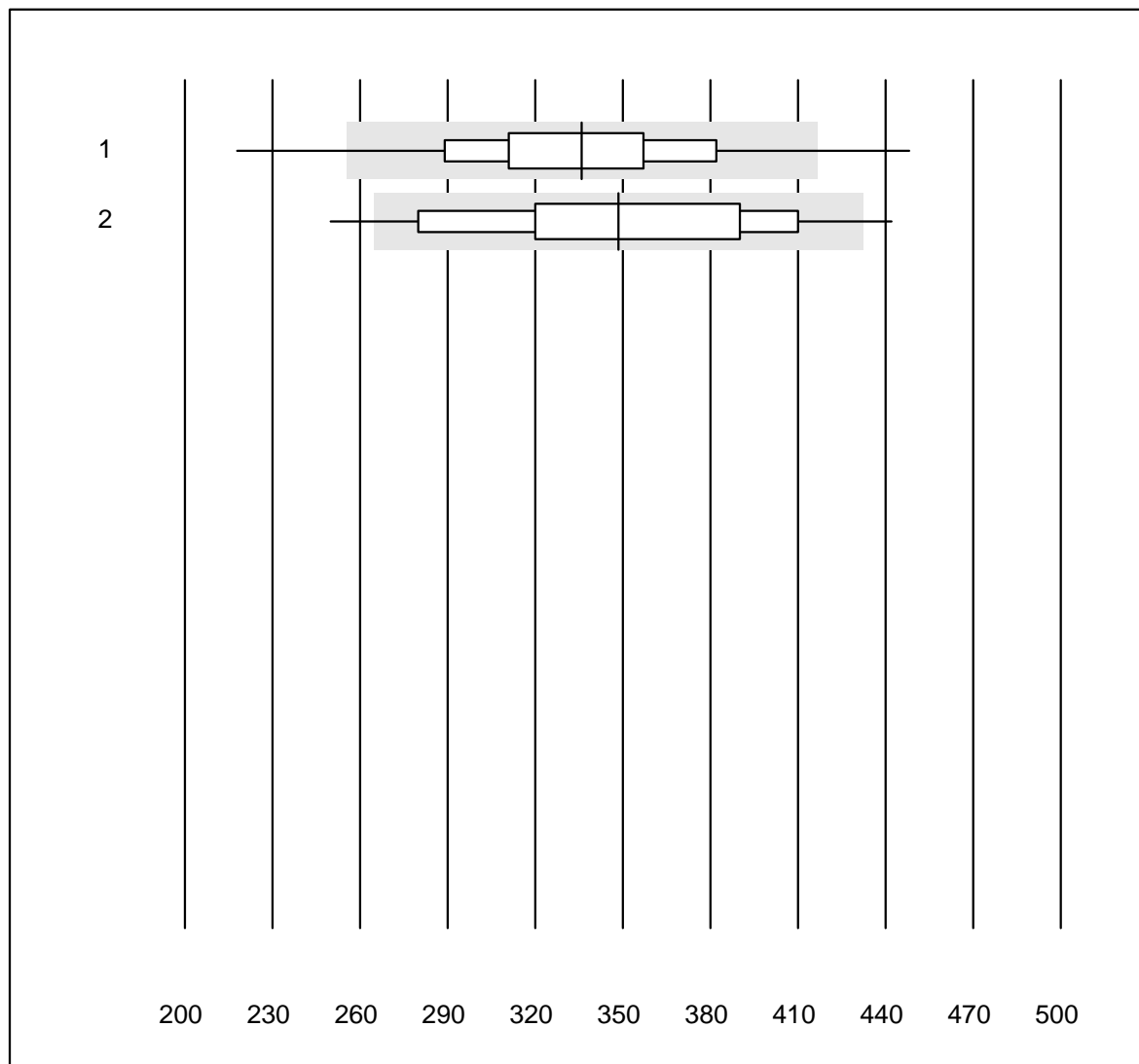


QUALAB tolerance : 24 %

Prolactine (µg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	26.1	7.6	e*
2	Cobas/Roche	4	100.0	0.0	0.0	36.8	1.8	e

Troponin T CR

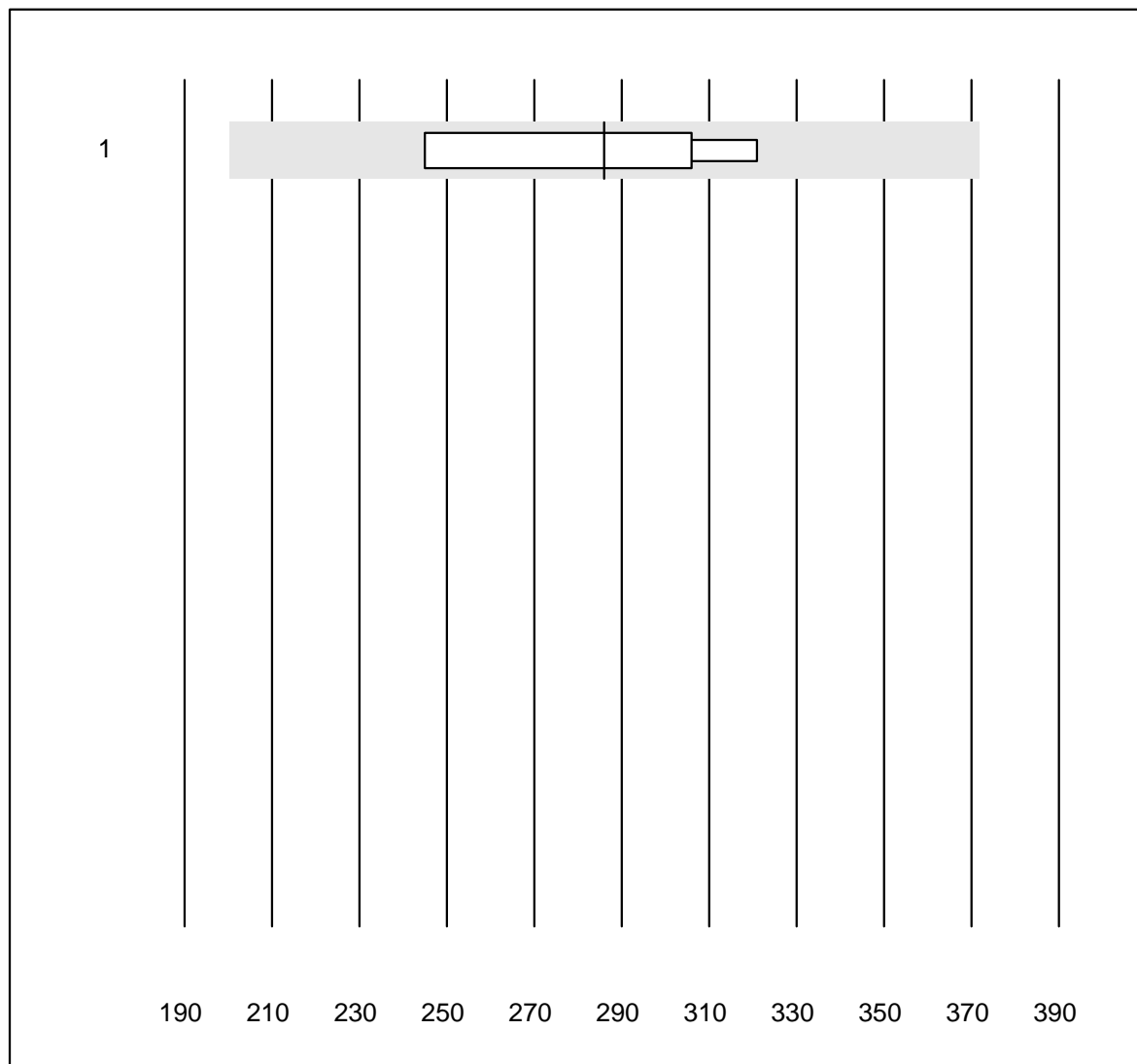


QUALAB tolerance : 24 %

Troponin T CR (ng/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas h 232	807	96.4	2.4	1.2	336.00	10.6	e
2	Cardiac Reader	55	92.7	7.3	0.0	348.53	14.0	e

Myoglobin CR

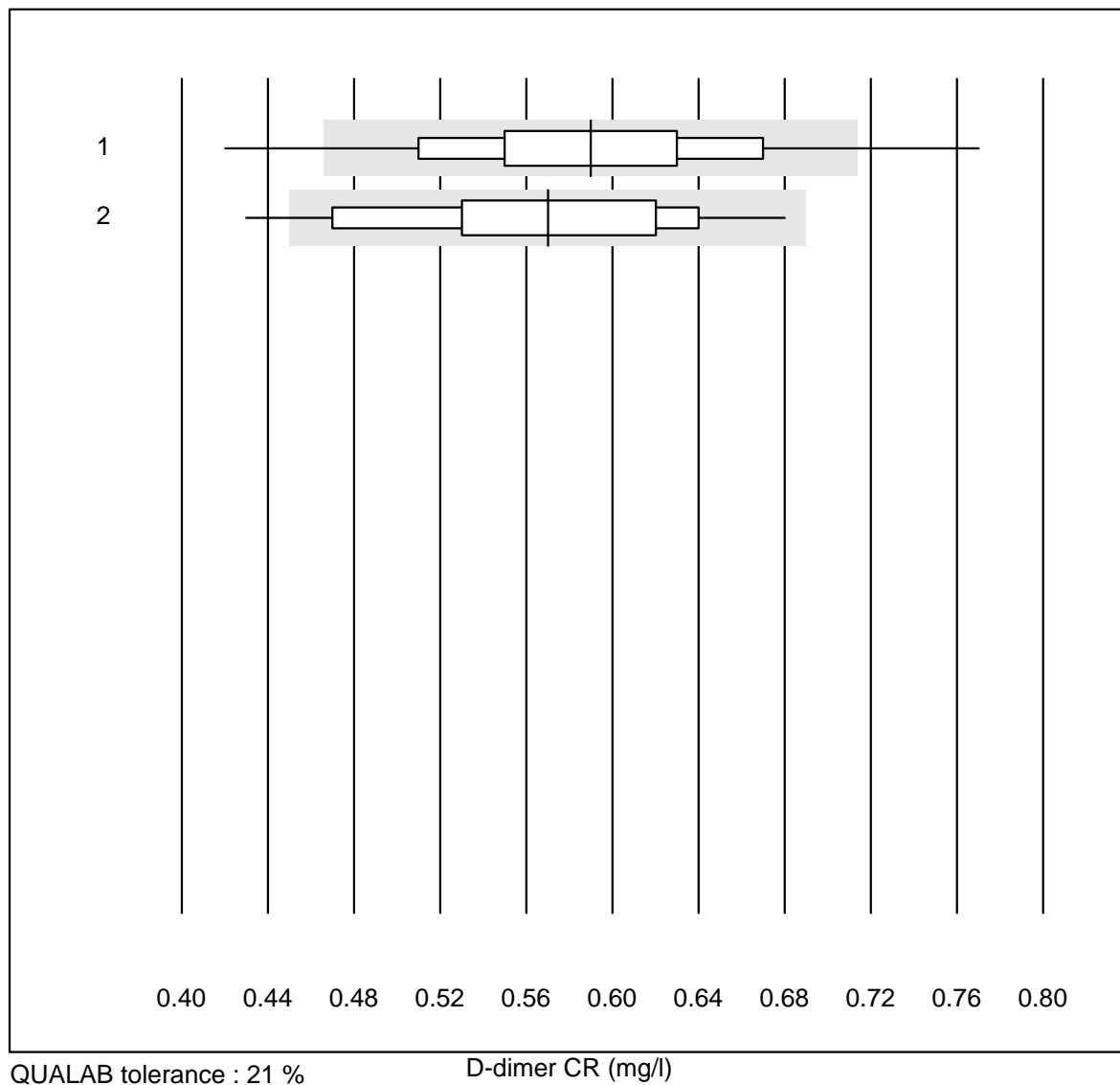


QUALAB tolerance : 30 %

Myoglobin CR (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas h 232	4	100.0	0.0	0.0	286.0	12.3	e*

D-dimer CR

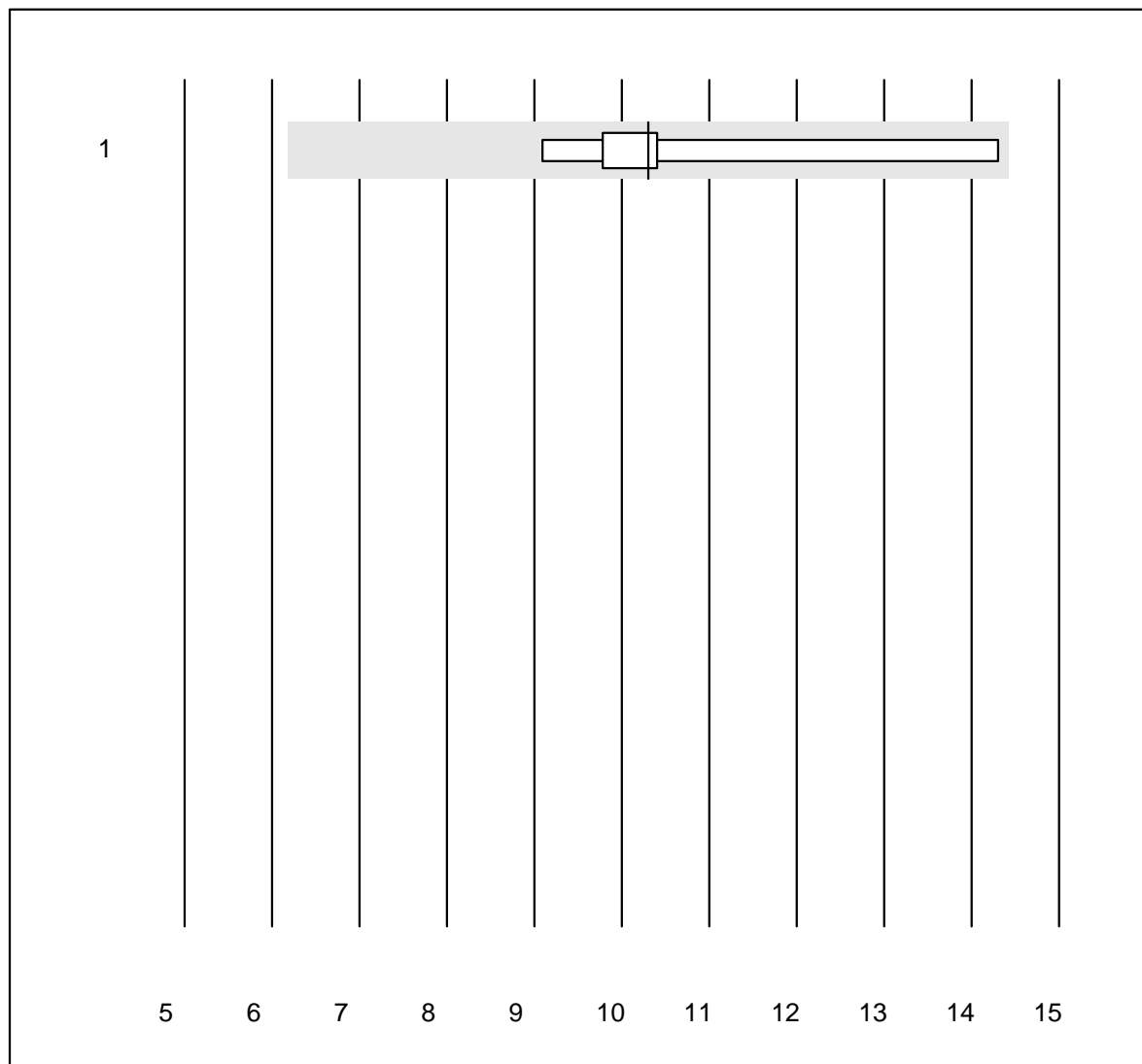


QUALAB tolerance : 21 %

D-dimer CR (mg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas h 232	825	92.8	4.5	2.7	0.59	10.4	e
2	Cardiac Reader	48	91.7	8.3	0.0	0.57	10.9	e

CKMB - K8

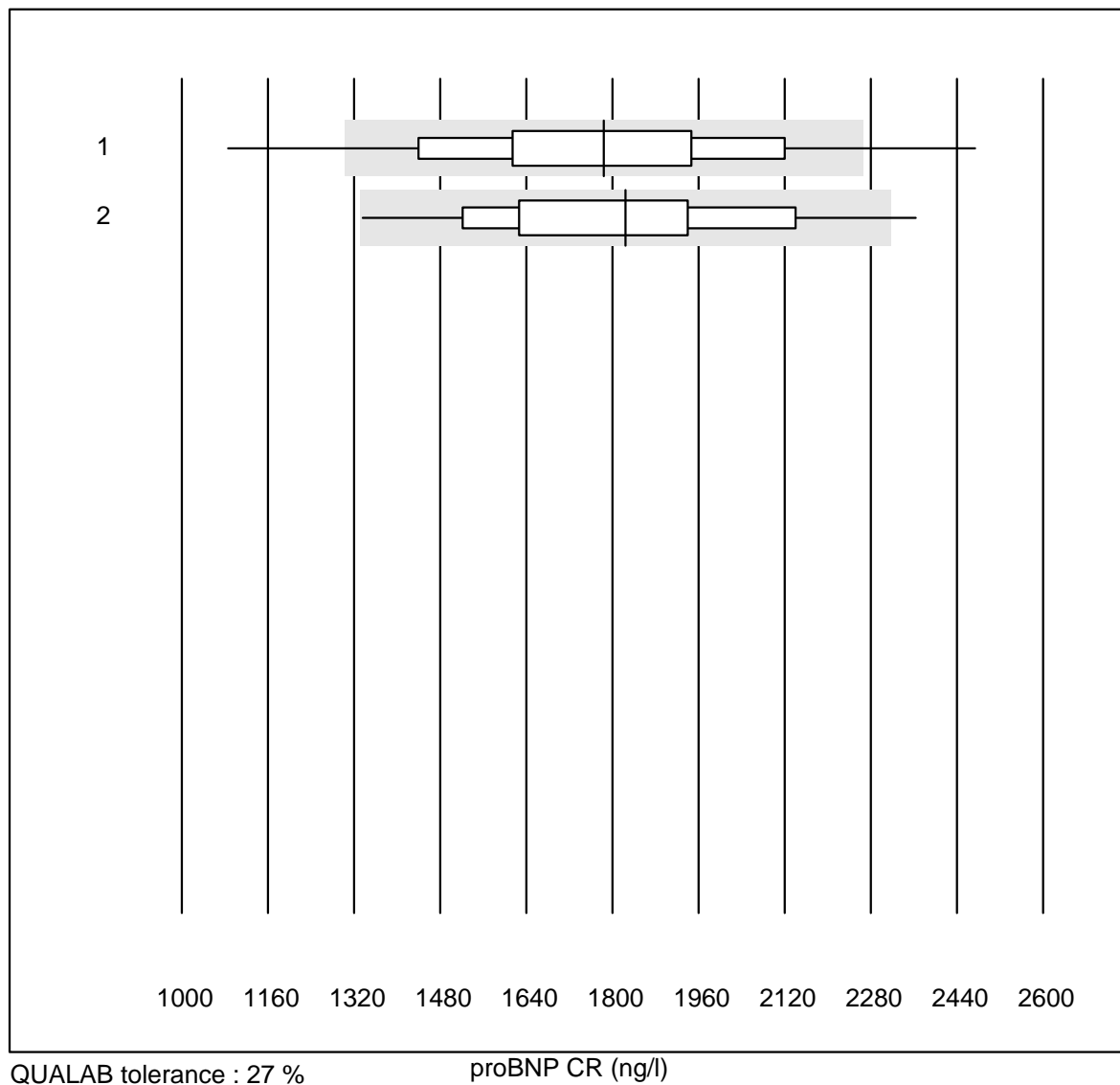


QUALAB tolerance : 40 %

CKMB - K8 (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas h 232	8	100.0	0.0	0.0	10.3	14.9	e*

proBNP CR

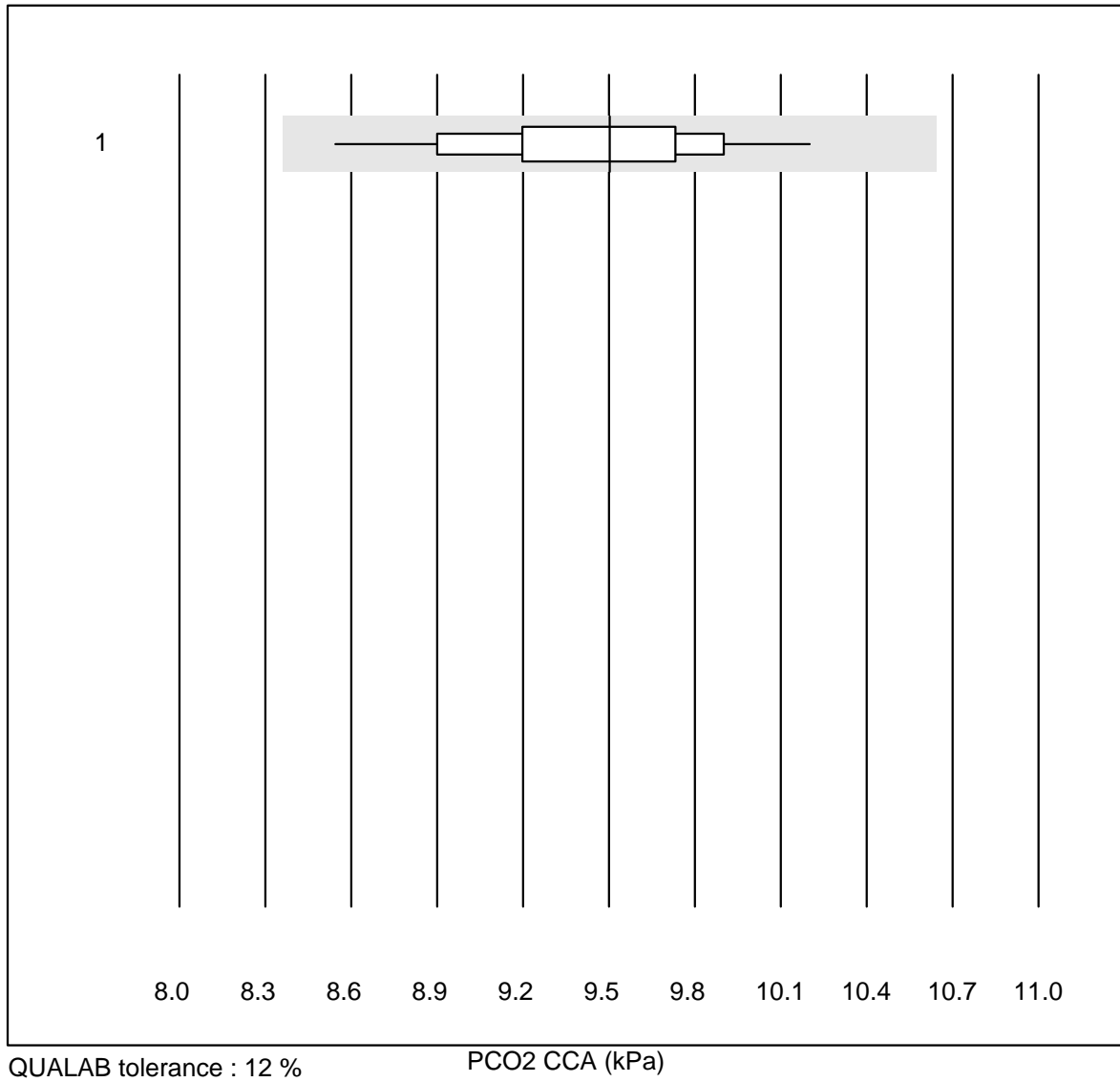


QUALAB tolerance : 27 %

proBNP CR (ng/l)

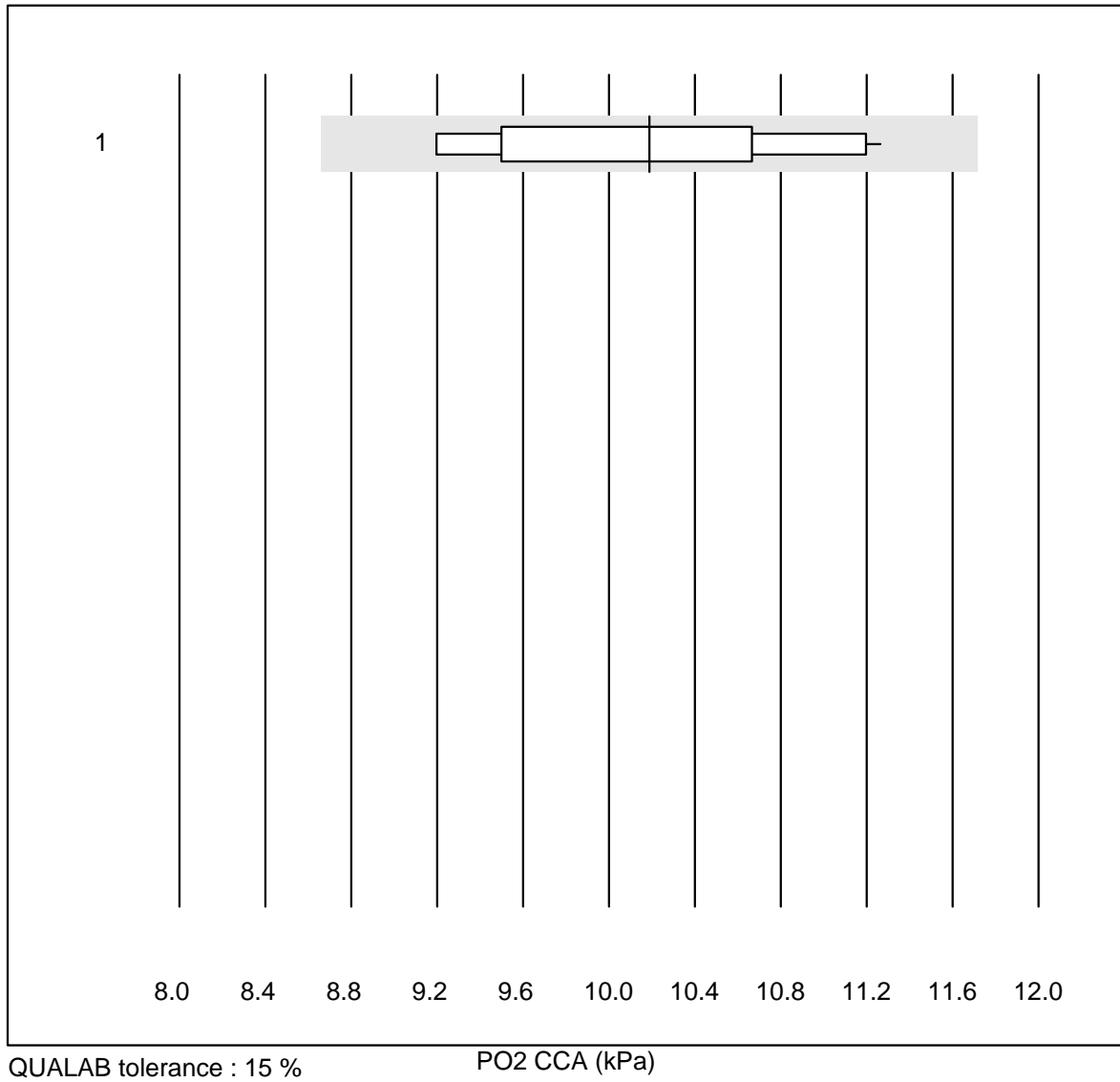
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas h 232	517	91.5	6.0	2.5	1784	14.3	e
2	Cardiac Reader	14	92.9	7.1	0.0	1824	14.8	e*

PCO2 CCA



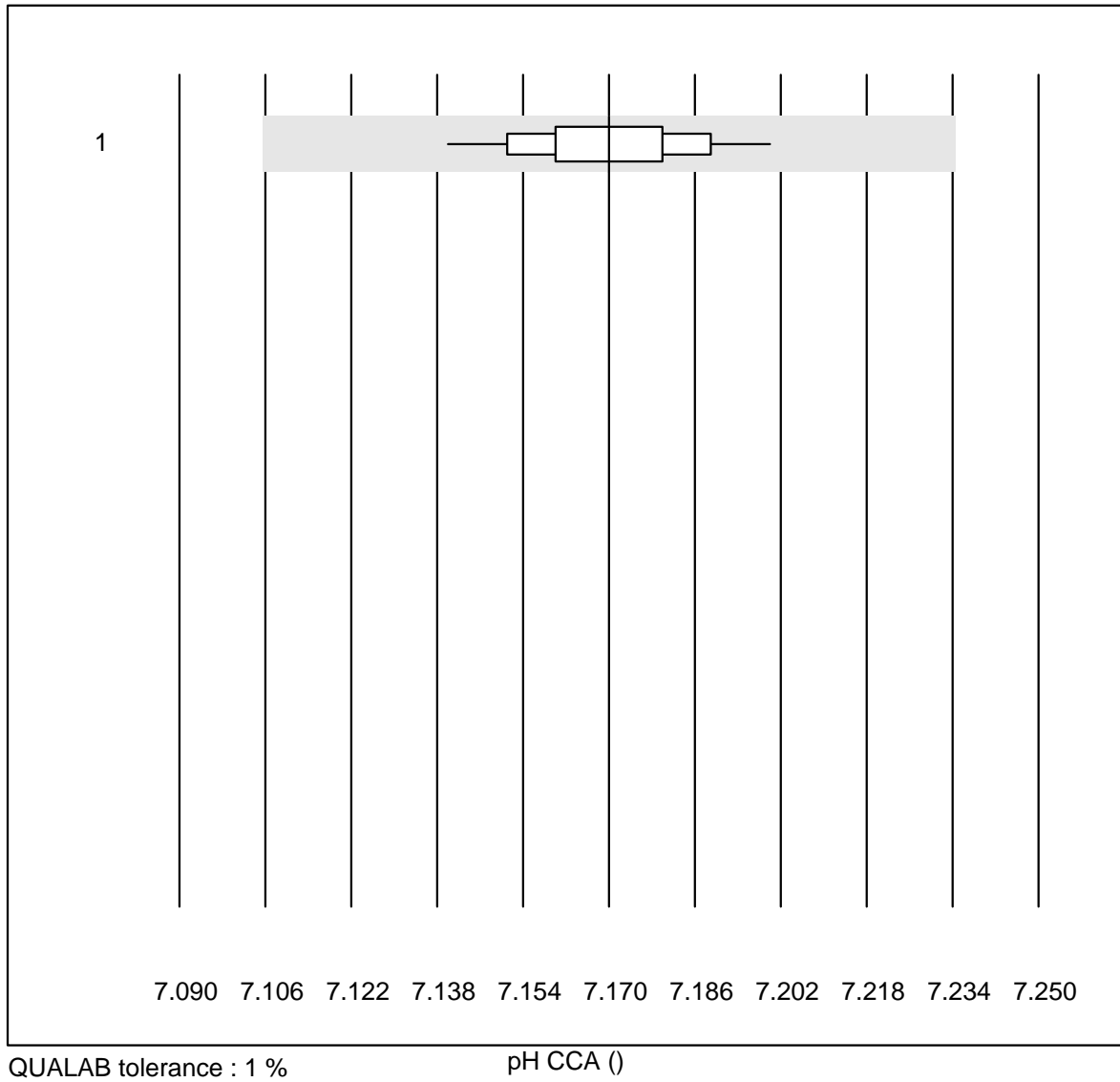
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	OPTI CCA	12	100.0	0.0	0.0	9.50	4.8	e

PO2 CCA



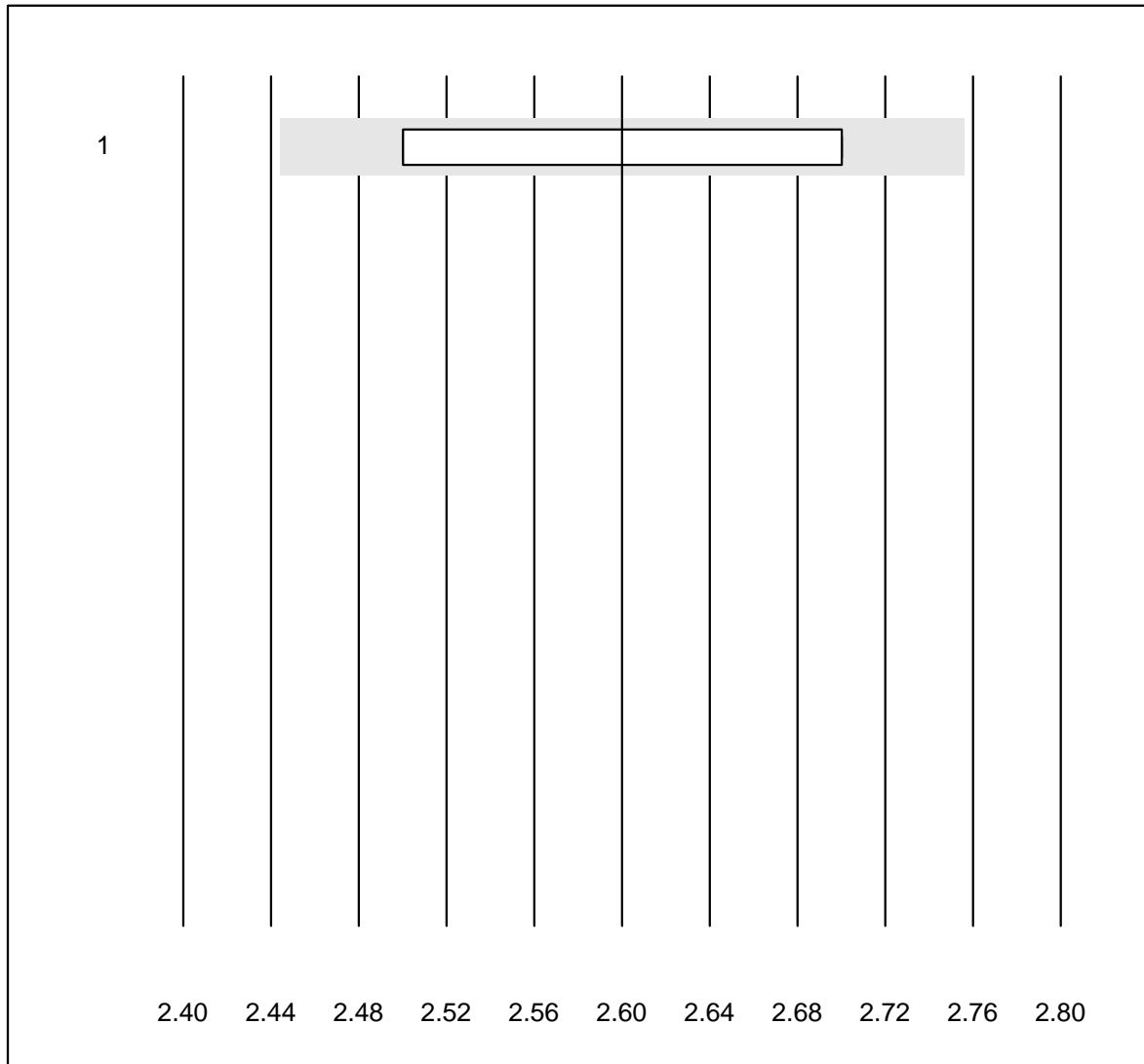
No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 OPTI CCA	12	100.0	0.0	0.0	10.19	7.2	e*

pH CCA



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	OPTI CCA	12	100.0	0.0	0.0	7.17	0.2	e

Potassium CCA

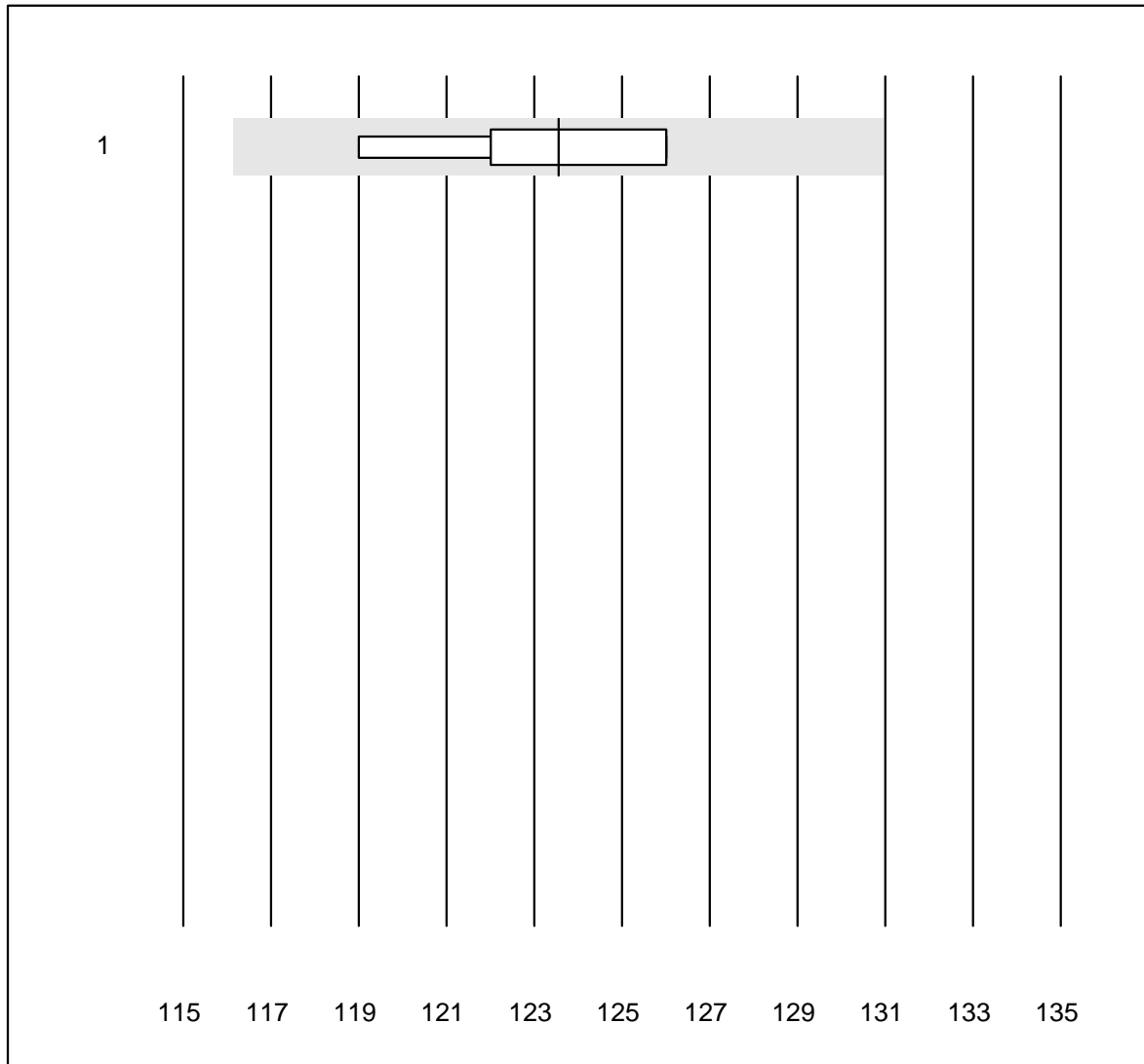


QUALAB tolerance : 6 %

Potassium CCA (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	OPTI CCA	7	100.0	0.0	0.0	2.6	3.7	e*

Sodium CCA

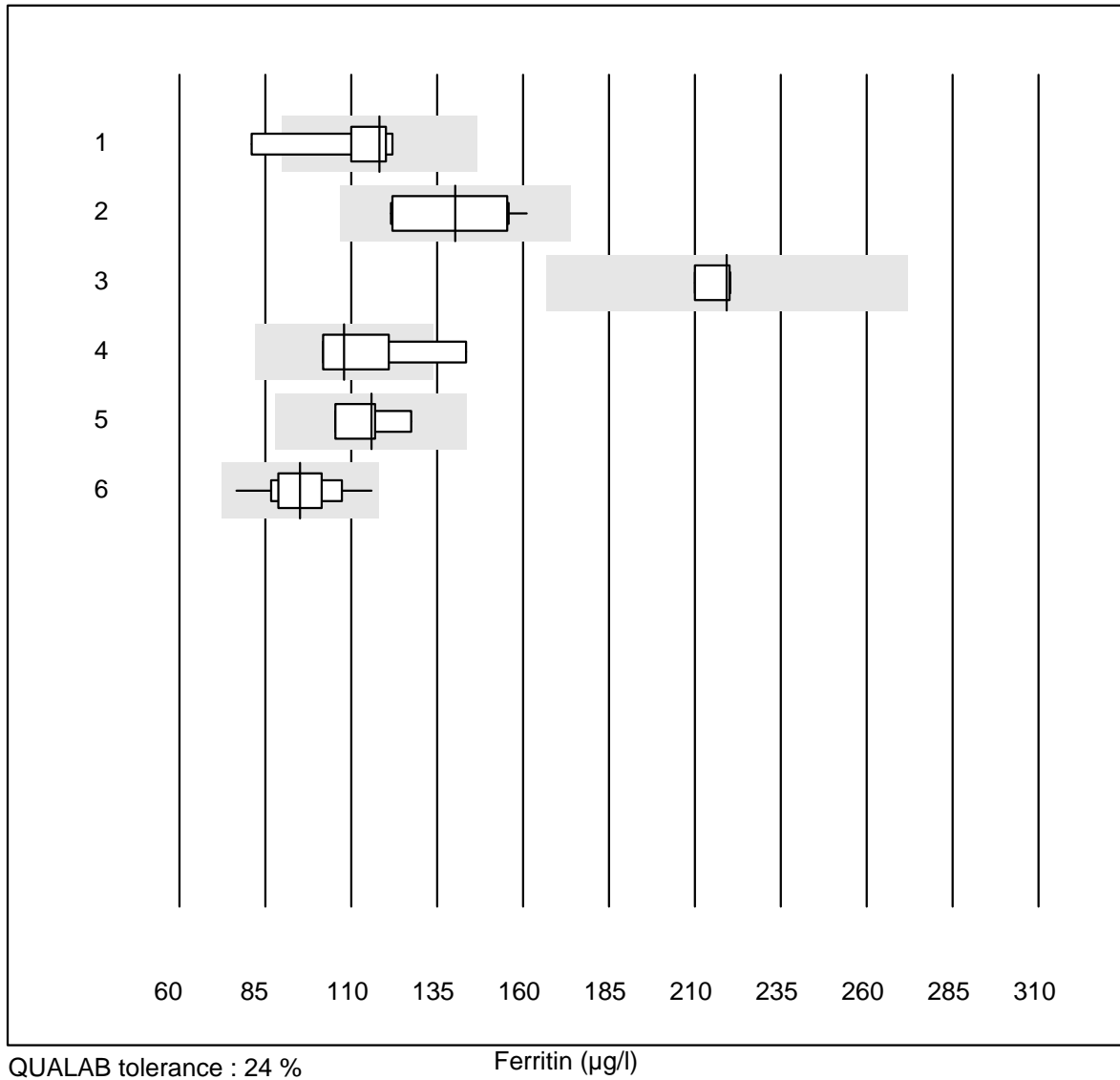


QUALAB tolerance : 6 %

Sodium CCA (mmol/l)

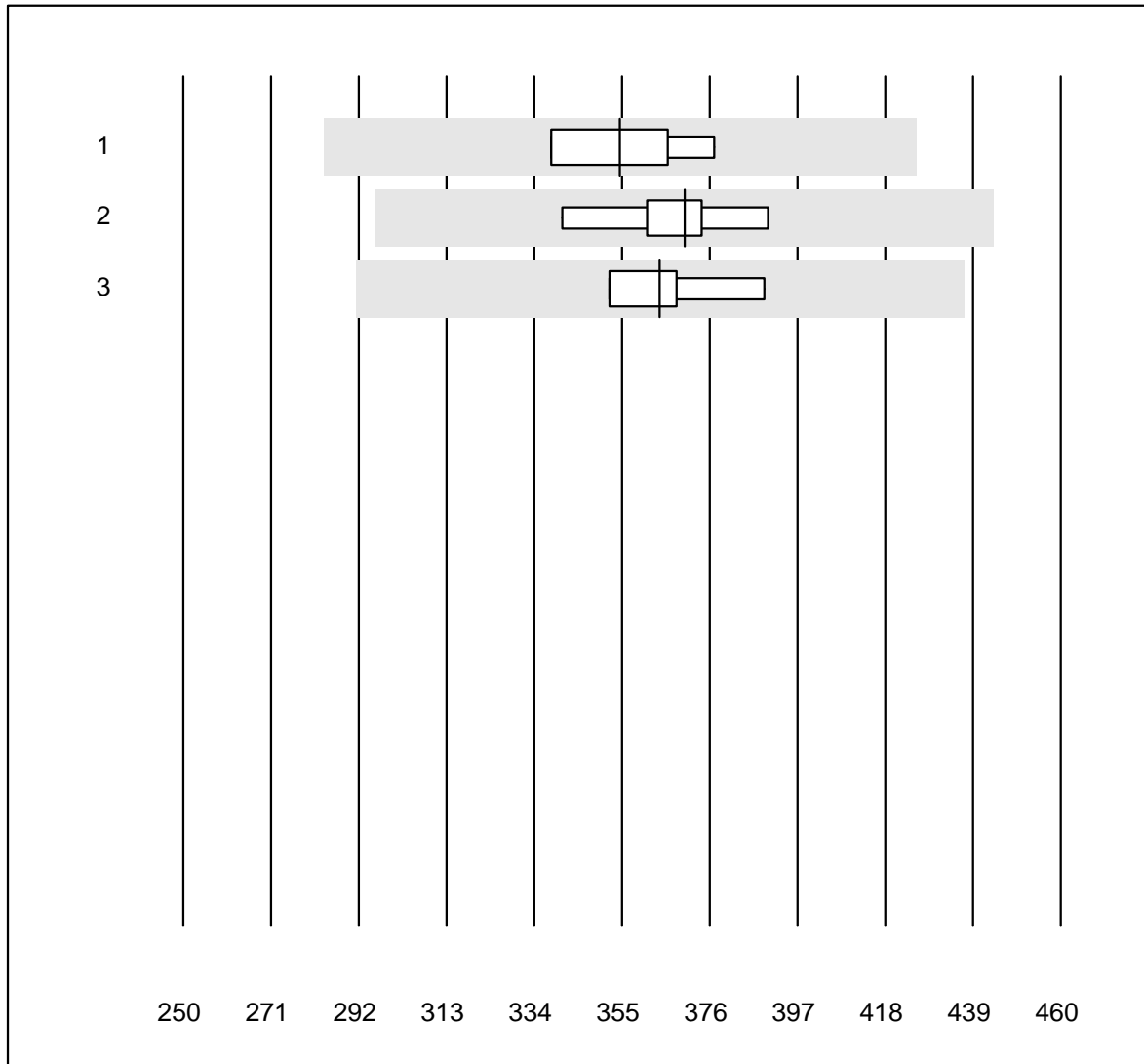
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	OPTI CCA	6	100.0	0.0	0.0	123.6	2.3	e*

Ferritin



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Beckman	5	80.0	20.0	0.0	118.20	15.4	e*
2	Cobas E / Elecsys	10	100.0	0.0	0.0	140.22	11.6	e*
3	Architect	4	100.0	0.0	0.0	219.30	2.2	e
4	Mira/DiaSys	5	60.0	20.0	20.0	108.00	15.6	e*
5	Mini Vidas	4	100.0	0.0	0.0	115.79	7.8	e*
6	Eurolyser	18	100.0	0.0	0.0	95.16	9.5	e

Vitamin B12

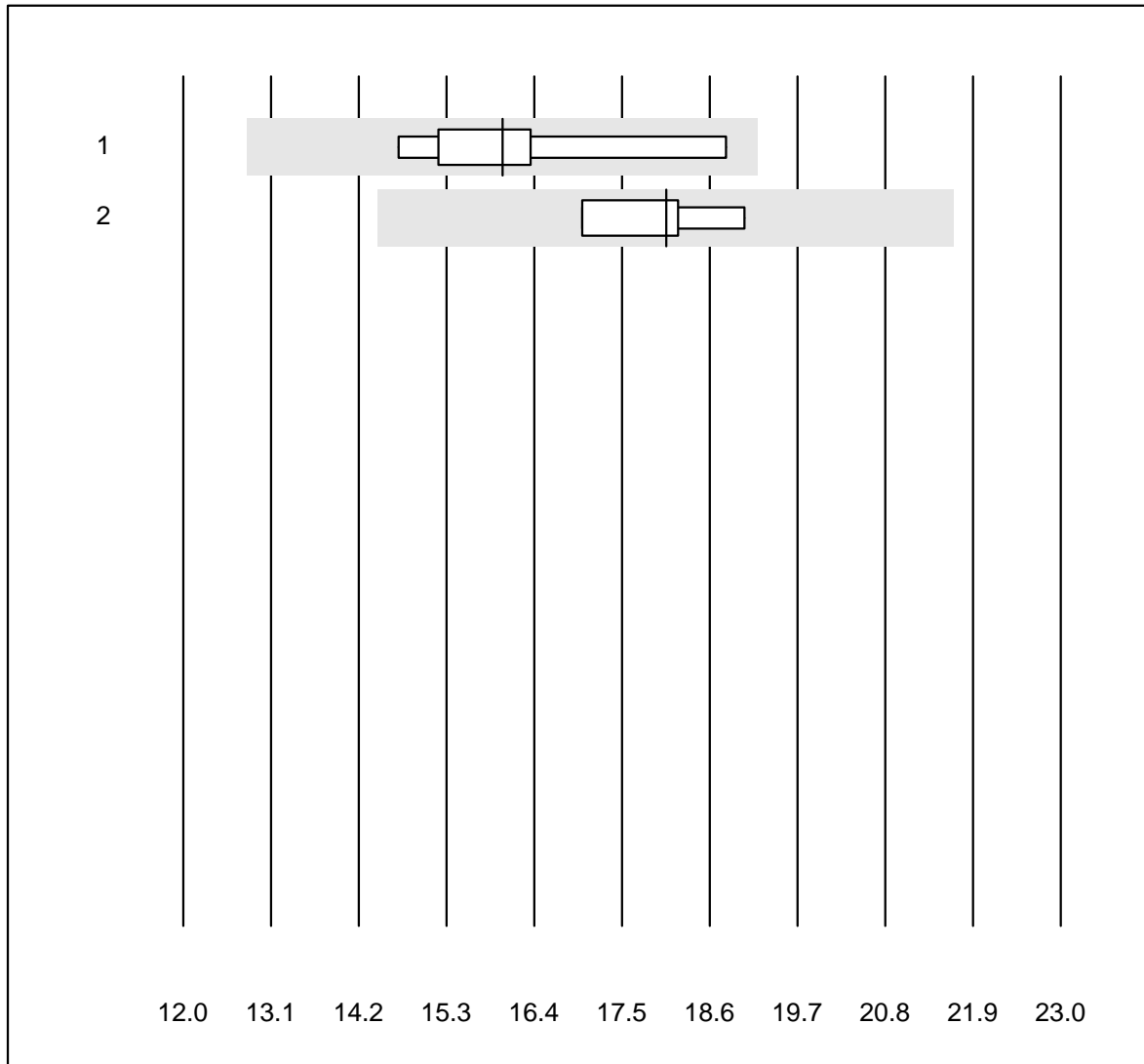


QUALAB tolerance : 20 %

Vitamin B12 (pmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	354.50	5.2	e*
2	Cobas E / Elecsys	8	100.0	0.0	0.0	370.00	4.1	e
3	Architect	4	100.0	0.0	0.0	364.08	4.3	e

Folate

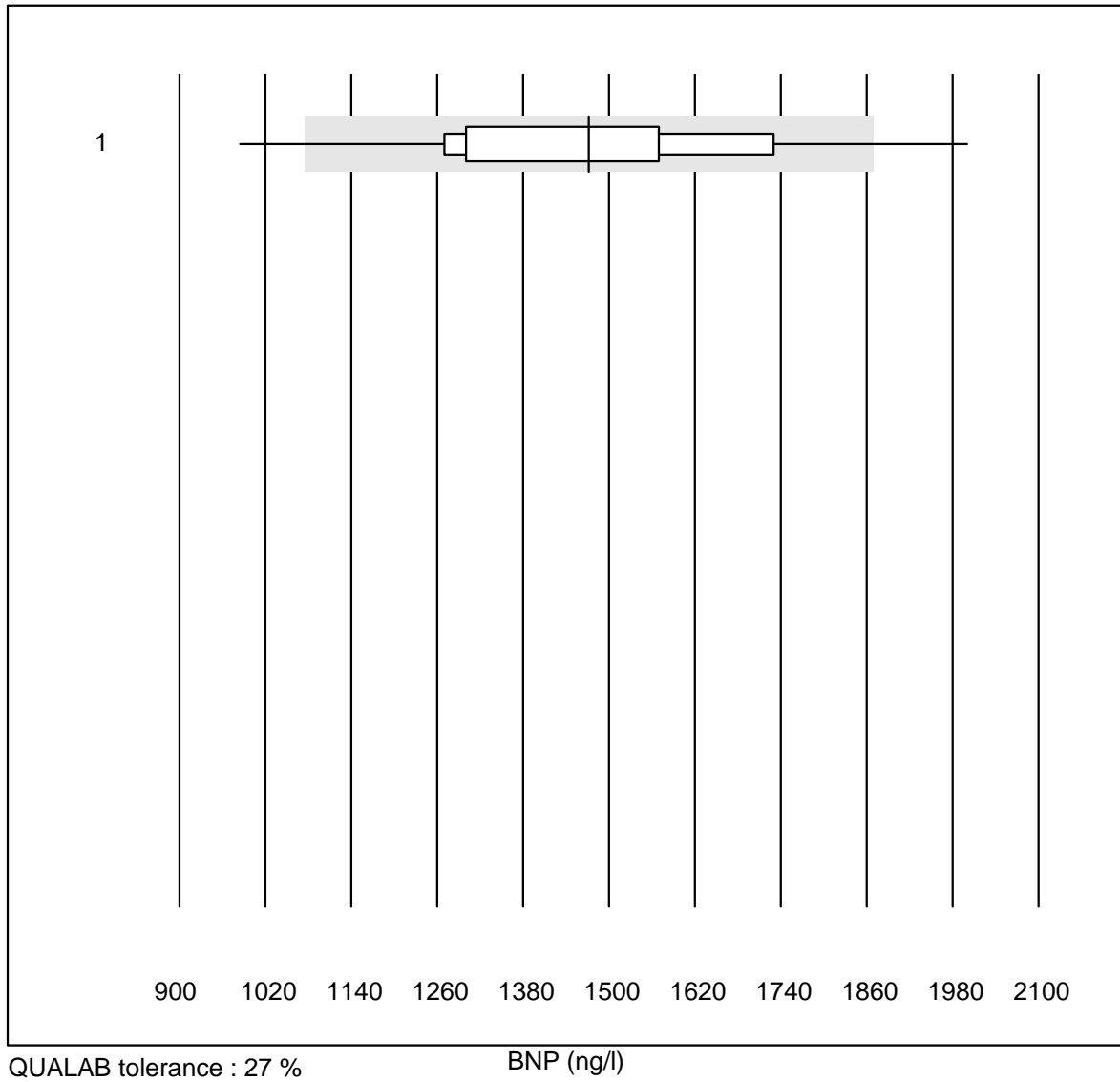


QUALAB tolerance : 20 %

Folate (nmol/l)

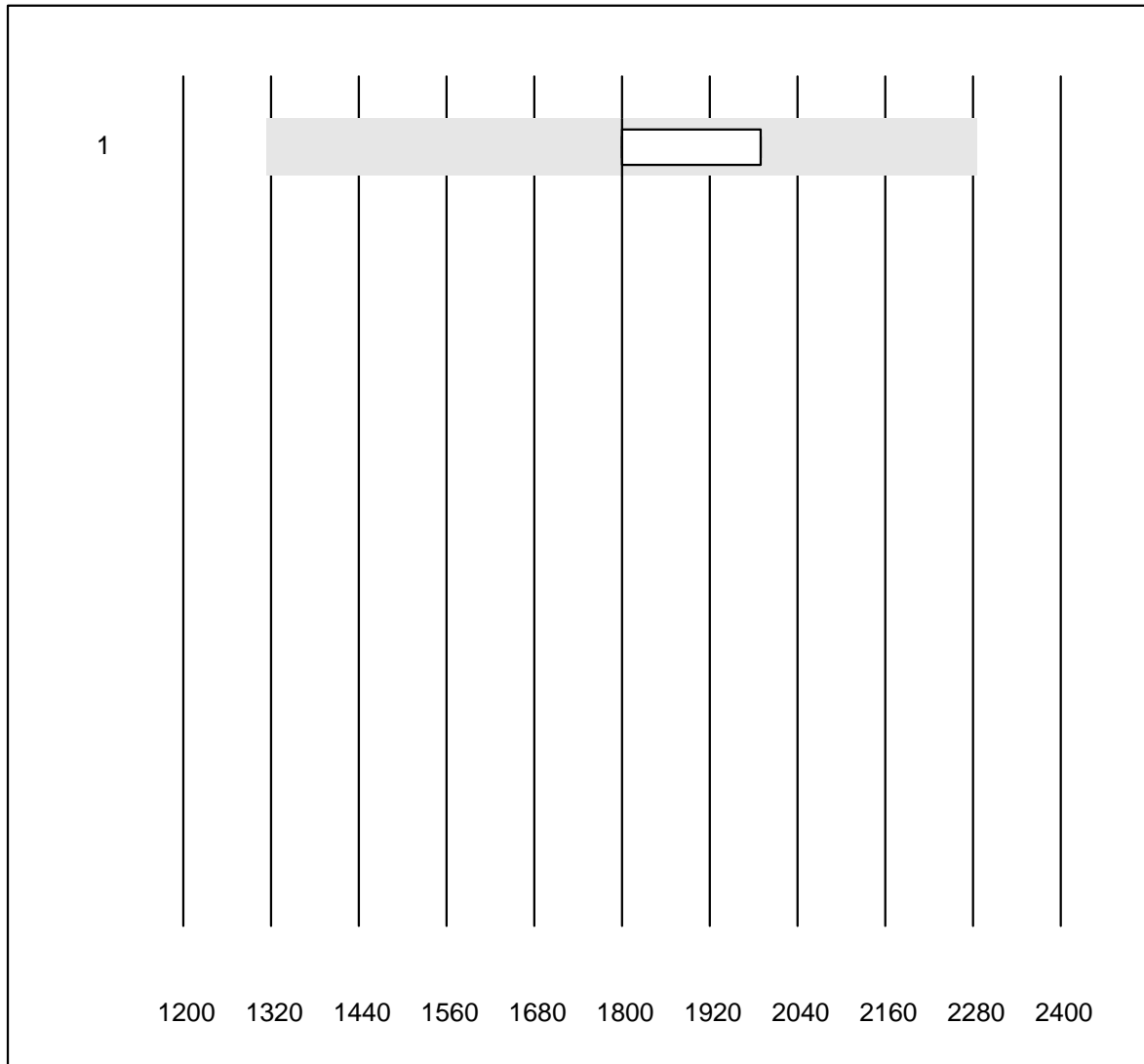
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	9	100.0	0.0	0.0	16.00	8.0	e*
2	Architect	4	100.0	0.0	0.0	18.05	4.7	e

BNP



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Triage Meter	45	84.5	4.4	11.1	1471.4	13.2	e

NT-Pro-BNP



QUALAB tolerance : 27 %

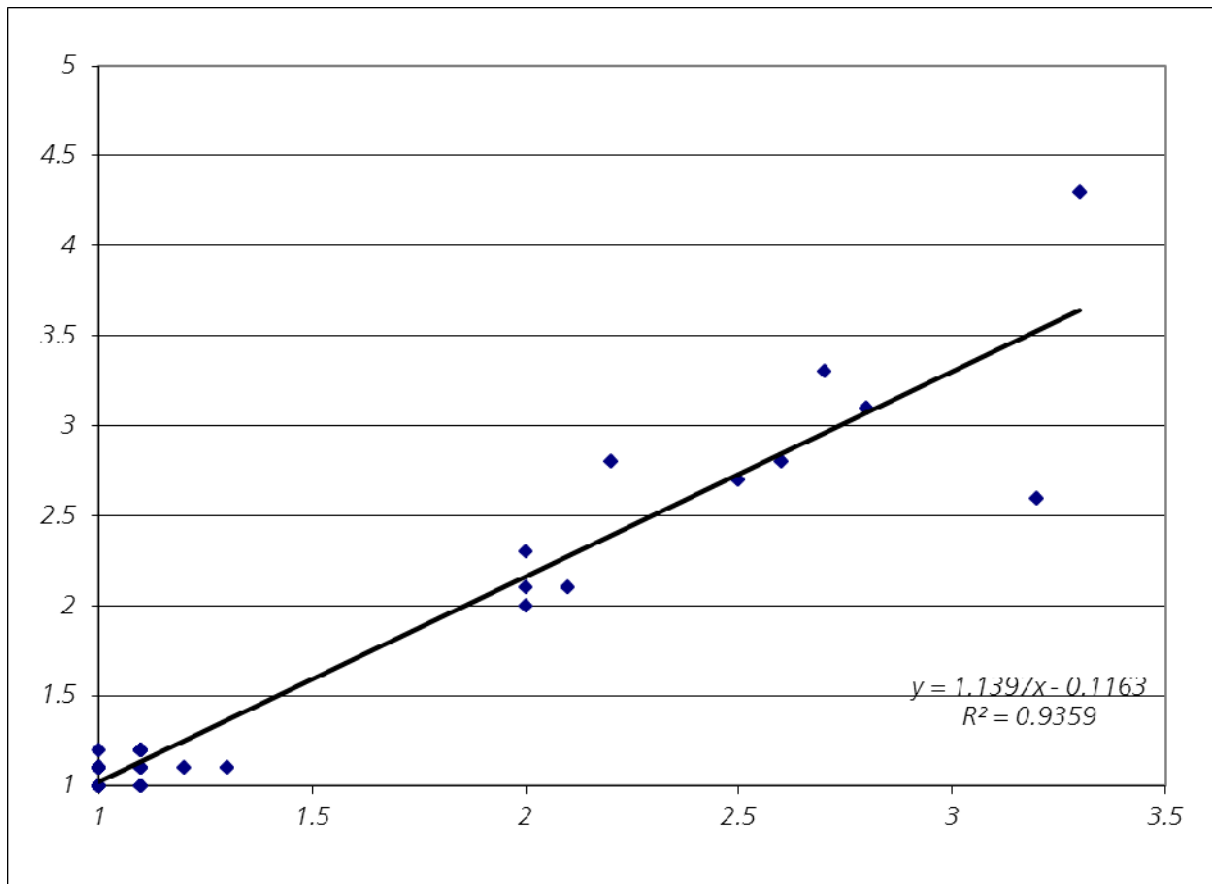
NT-Pro-BNP (ng/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Triage Meter	4	75.0	0.0	25.0	1800	5.9	e

G10 INR INRatio

INR INRatio

University Hospital Zuerich

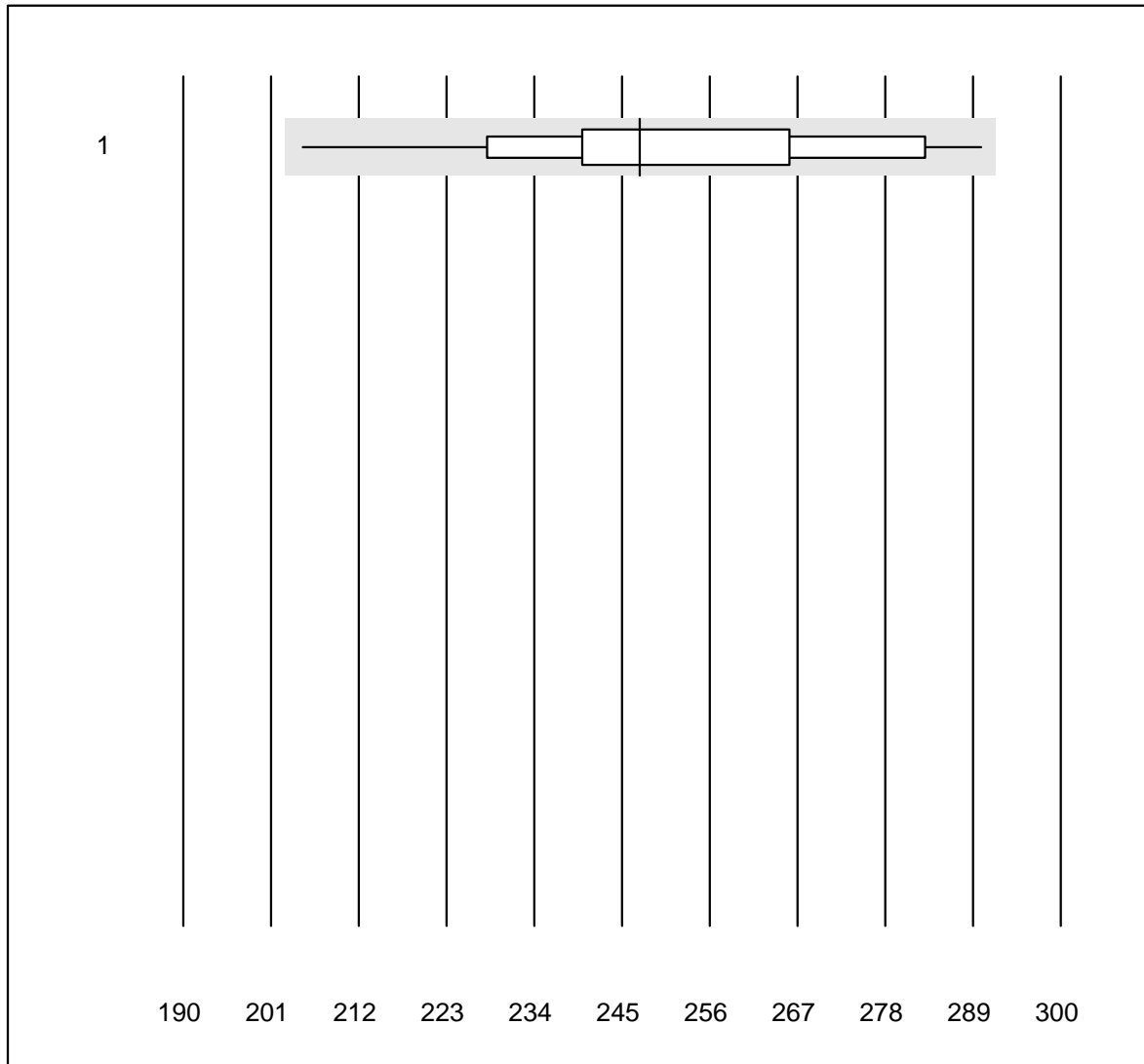


INRatio Participants

G10 is a split-sample survey. We compare INR-values from our participants with the corresponding plasma INR from University Hospital Zuerich.

Nr.	Device	Total	% good	% insufficient	% outlier
1	INRatio	54	88.89	7.41	3.70

Bilirubin total Neo

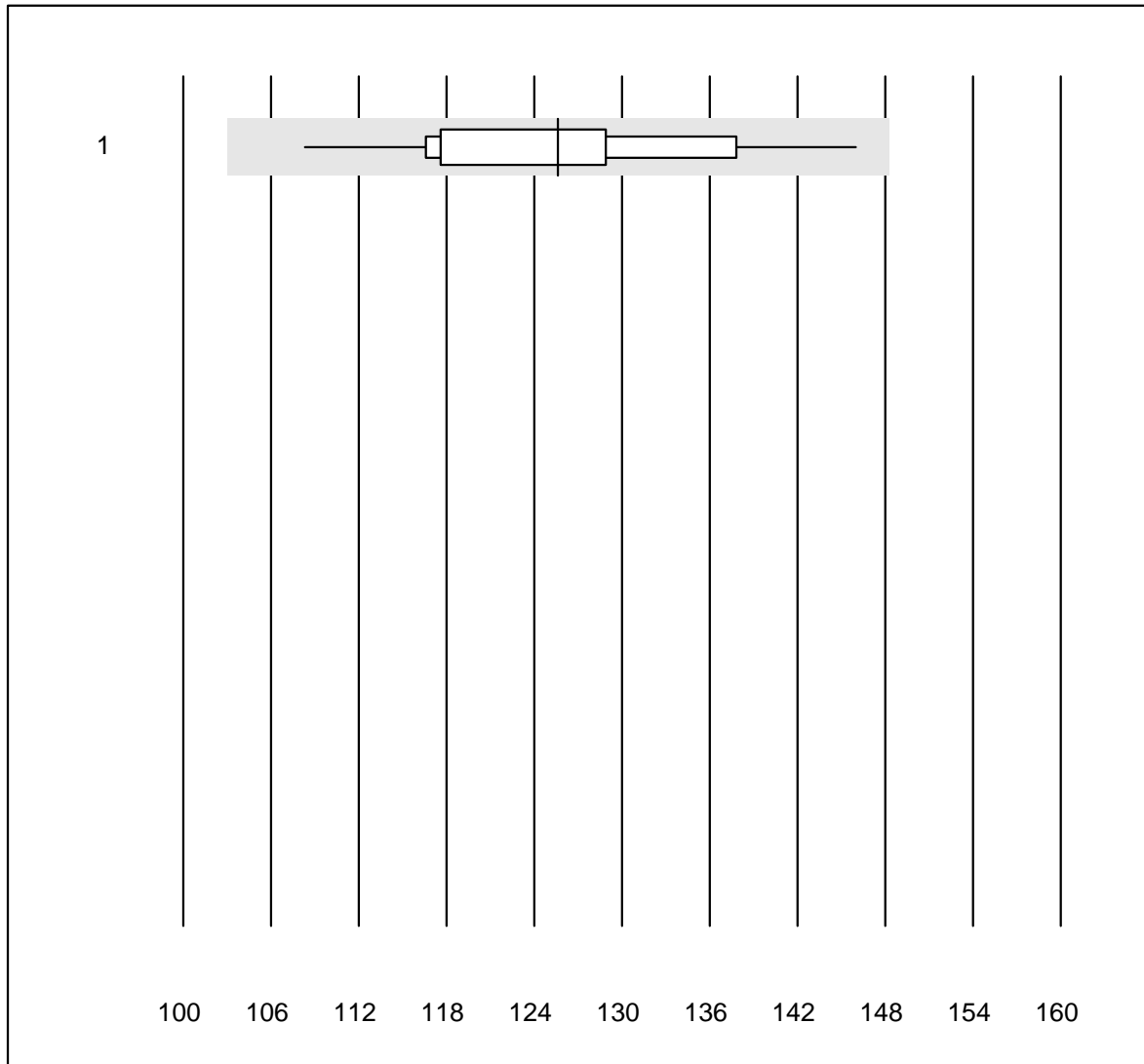


QUALAB tolerance : 18 %

Bilirubin total Neo (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	14	100.0	0.0	0.0	247	9.1	e*

Bilirubin direct

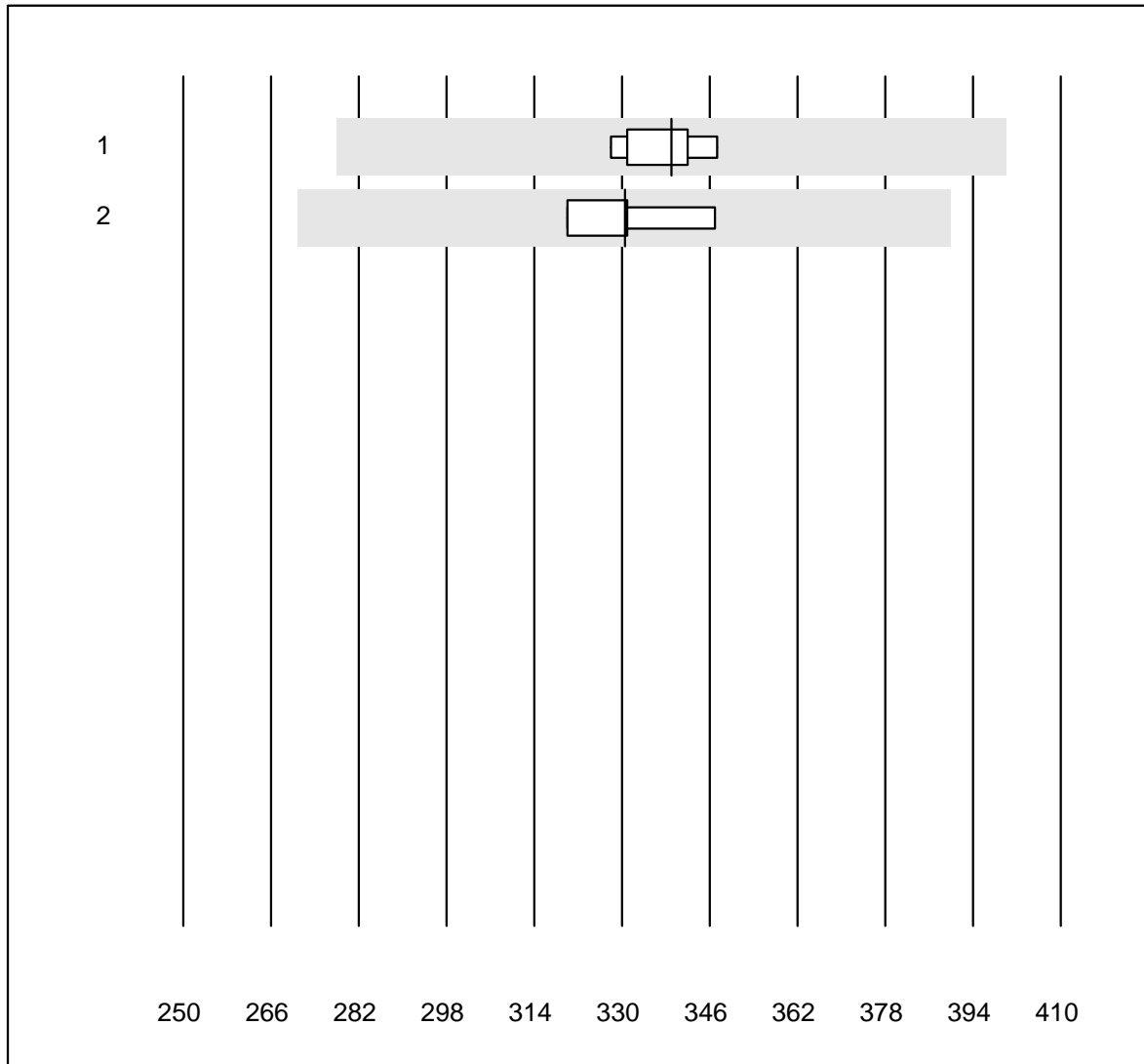


QUALAB tolerance : 18 %

Bilirubin direct (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	12	100.0	0.0	0.0	126	8.0	e*

Bilirubin neonatal

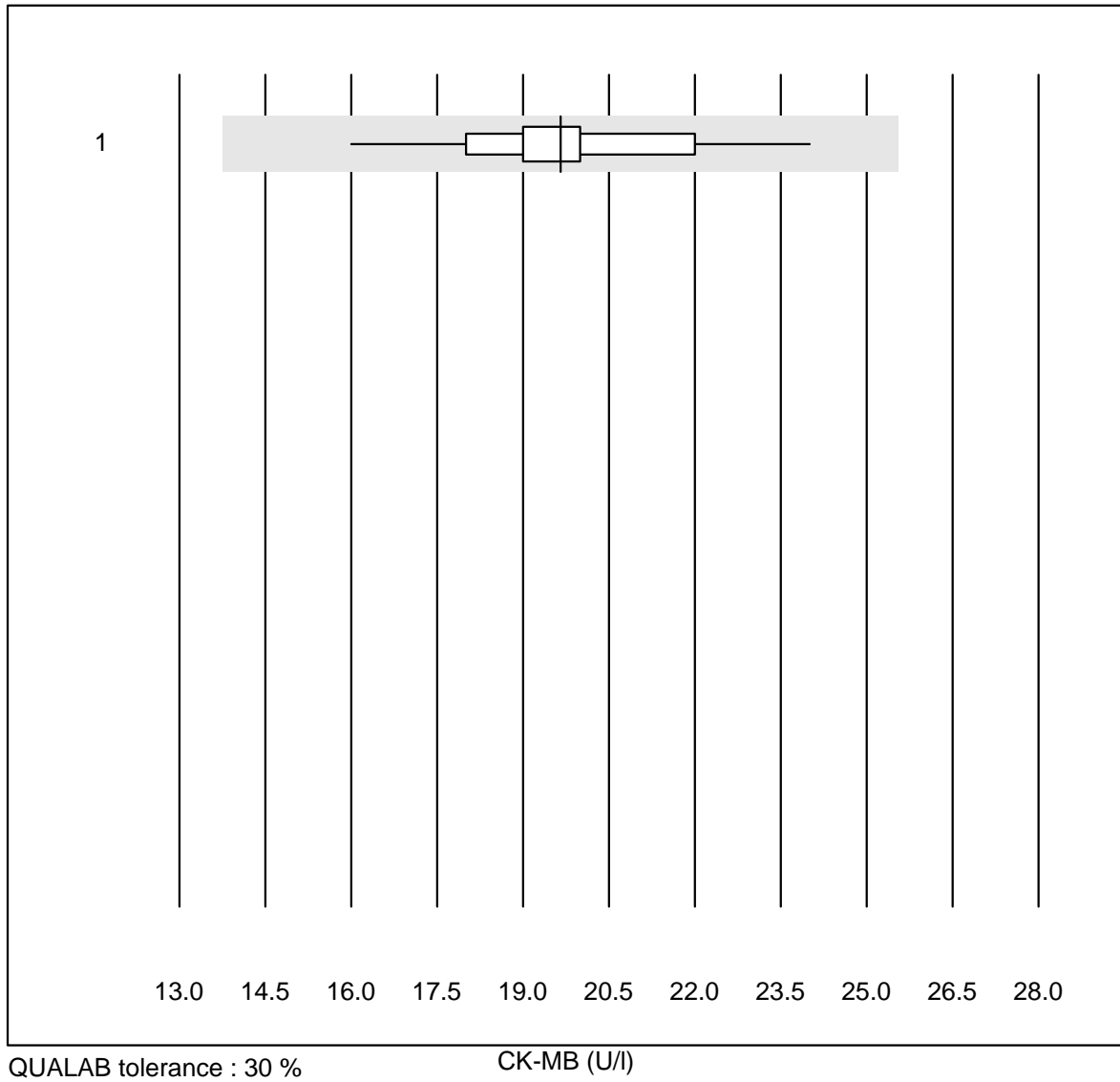


QUALAB tolerance : 18 %

Bilirubin neonatal (µmol/l)

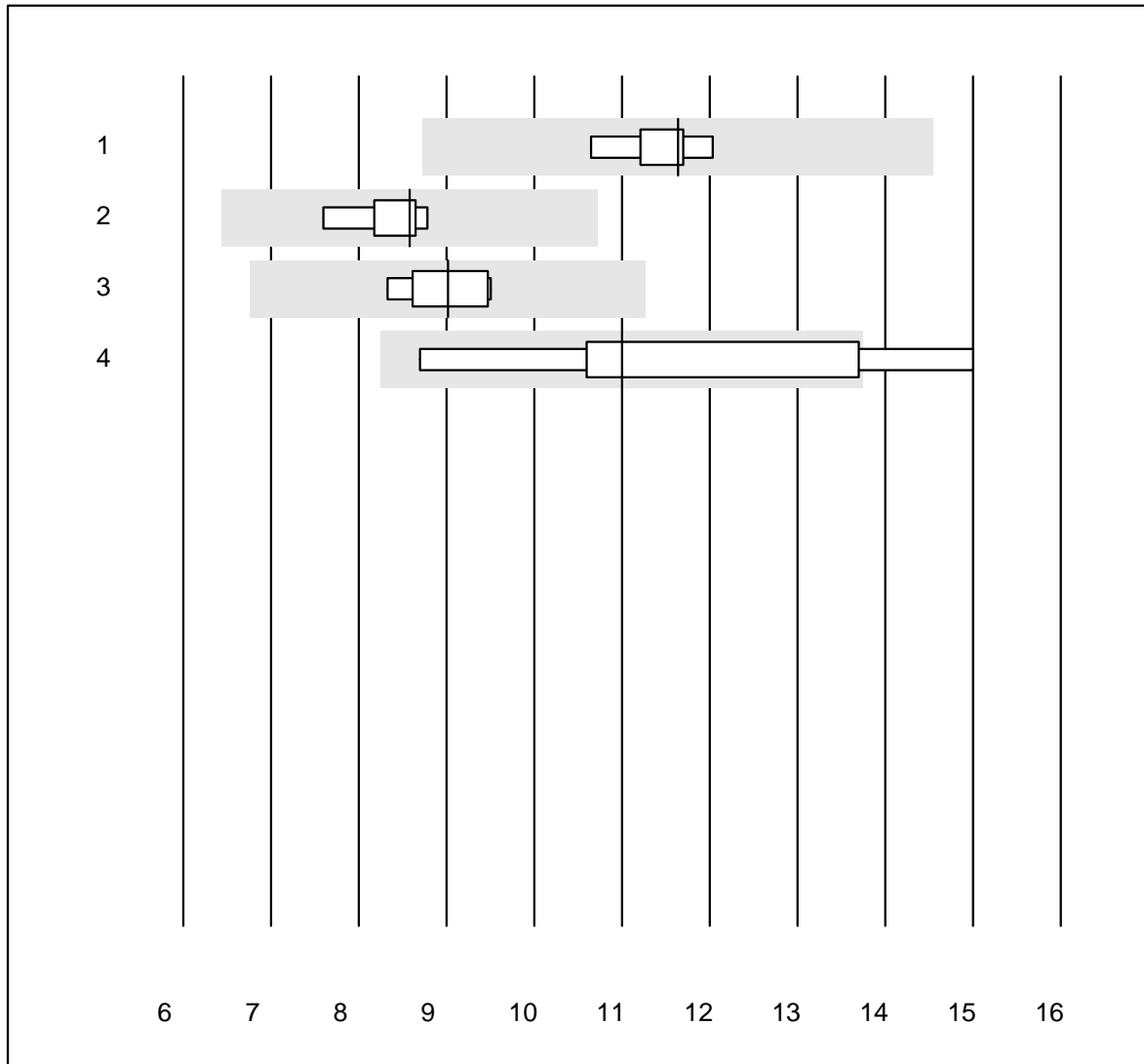
No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	5	100.0	0.0	0.0	339	2.4	e
2	ABL700/800 Radiomete	4	100.0	0.0	0.0	331	3.4	e

CK-MB



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Fuji Dri-Chem	38	100.0	0.0	0.0	19.7	8.5	e

PSA

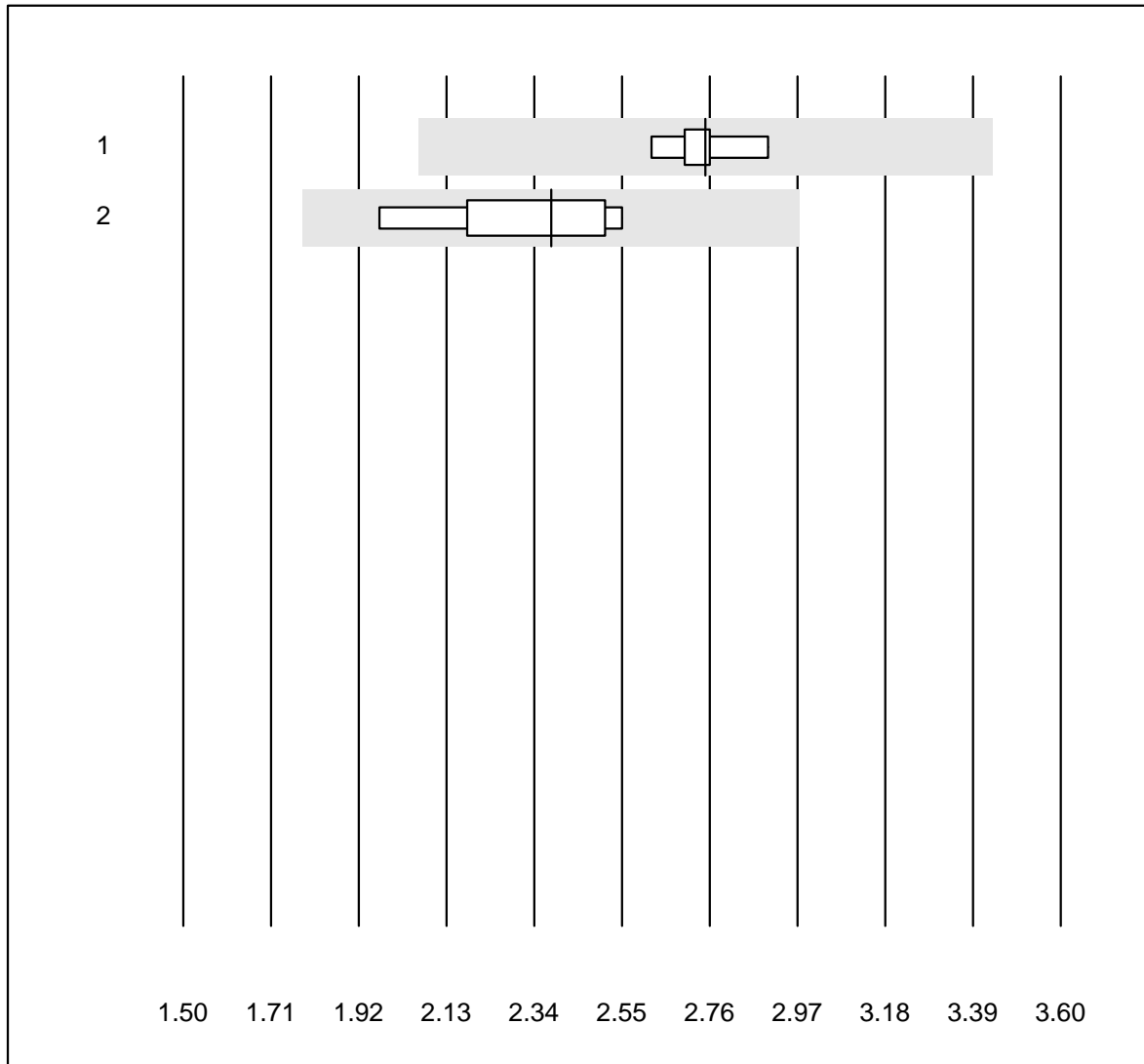


QUALAB tolerance : 25 %

PSA (µg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	9	100.0	0.0	0.0	11.64	4.4	e
2	ADVIA Centaur XP/CP	5	100.0	0.0	0.0	8.58	5.7	e
3	Architect	6	100.0	0.0	0.0	9.02	5.2	e
4	Qualigen	5	80.0	20.0	0.0	11.00	21.4	e*

free PSA

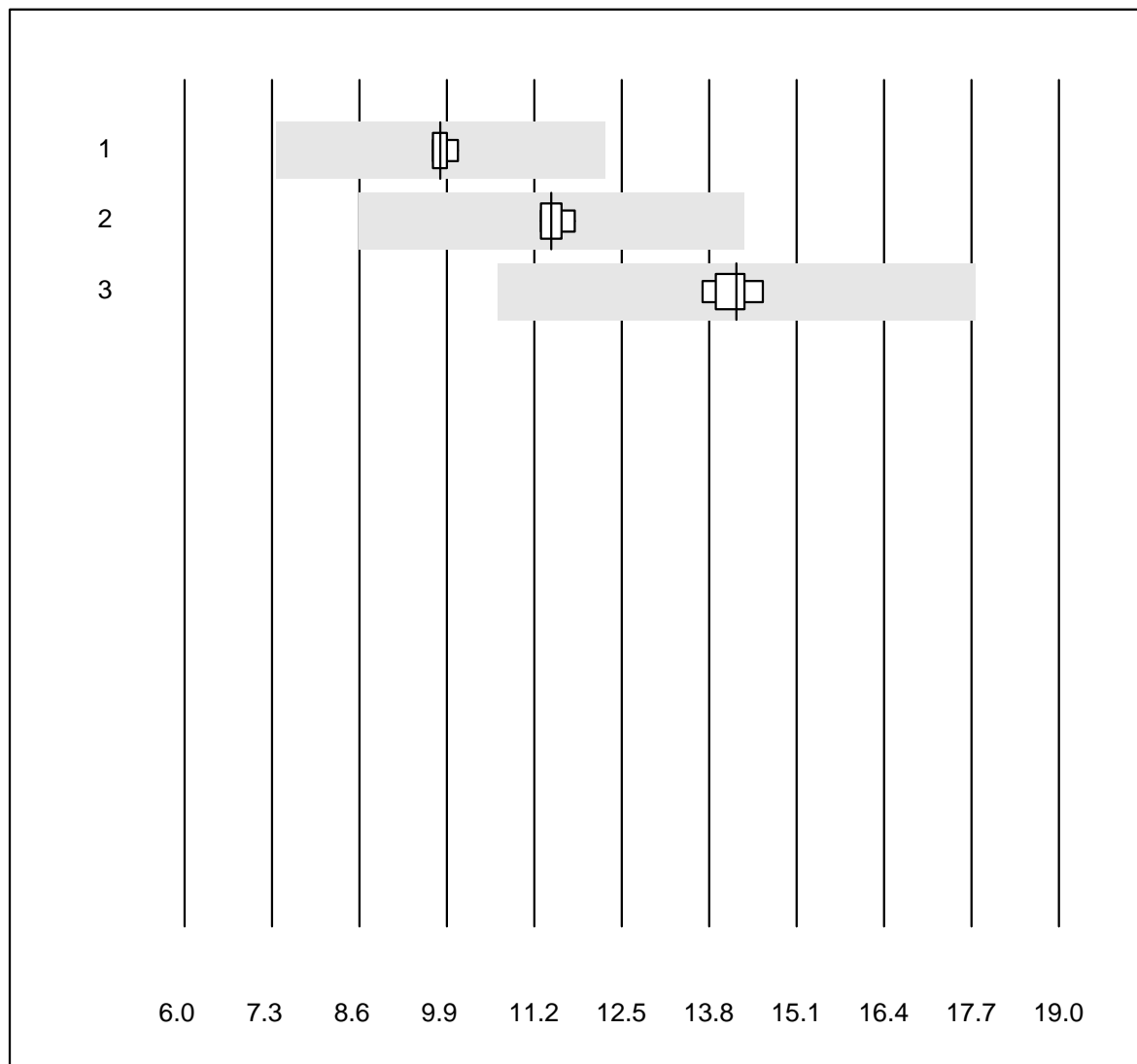


QUALAB tolerance : 25 %

free PSA (µg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	5	100.0	0.0	0.0	2.75	3.7	e
2	Architect	5	100.0	0.0	0.0	2.38	10.4	e*

CEA

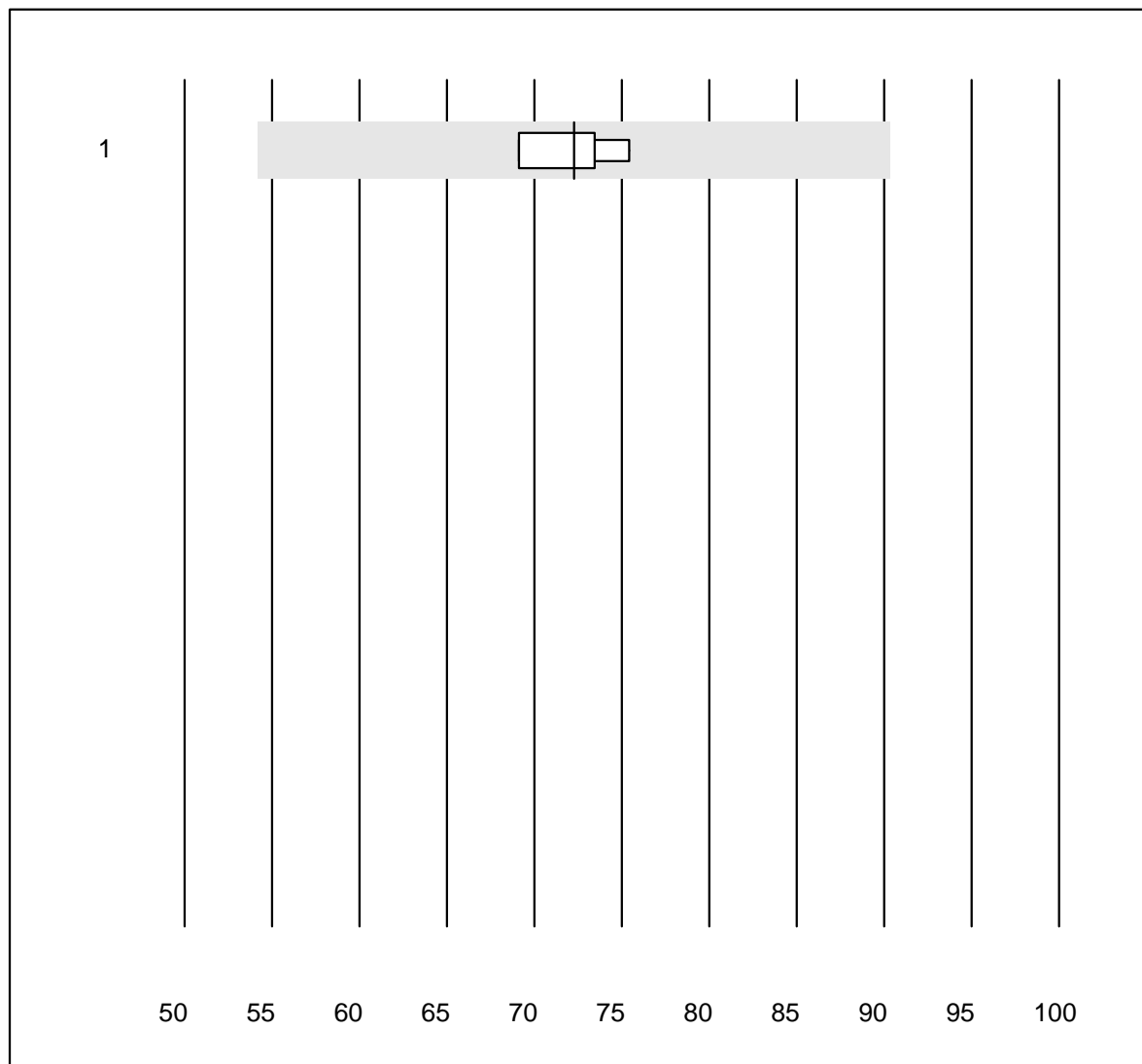


QUALAB tolerance : 25 %

CEA (µg/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	5	100.0	0.0	0.0	9.8	1.6	e
2	ADVIA Centaur XP/CP	4	100.0	0.0	0.0	11.5	2.1	e
3	Architect	5	100.0	0.0	0.0	14.2	2.5	e

CA 125

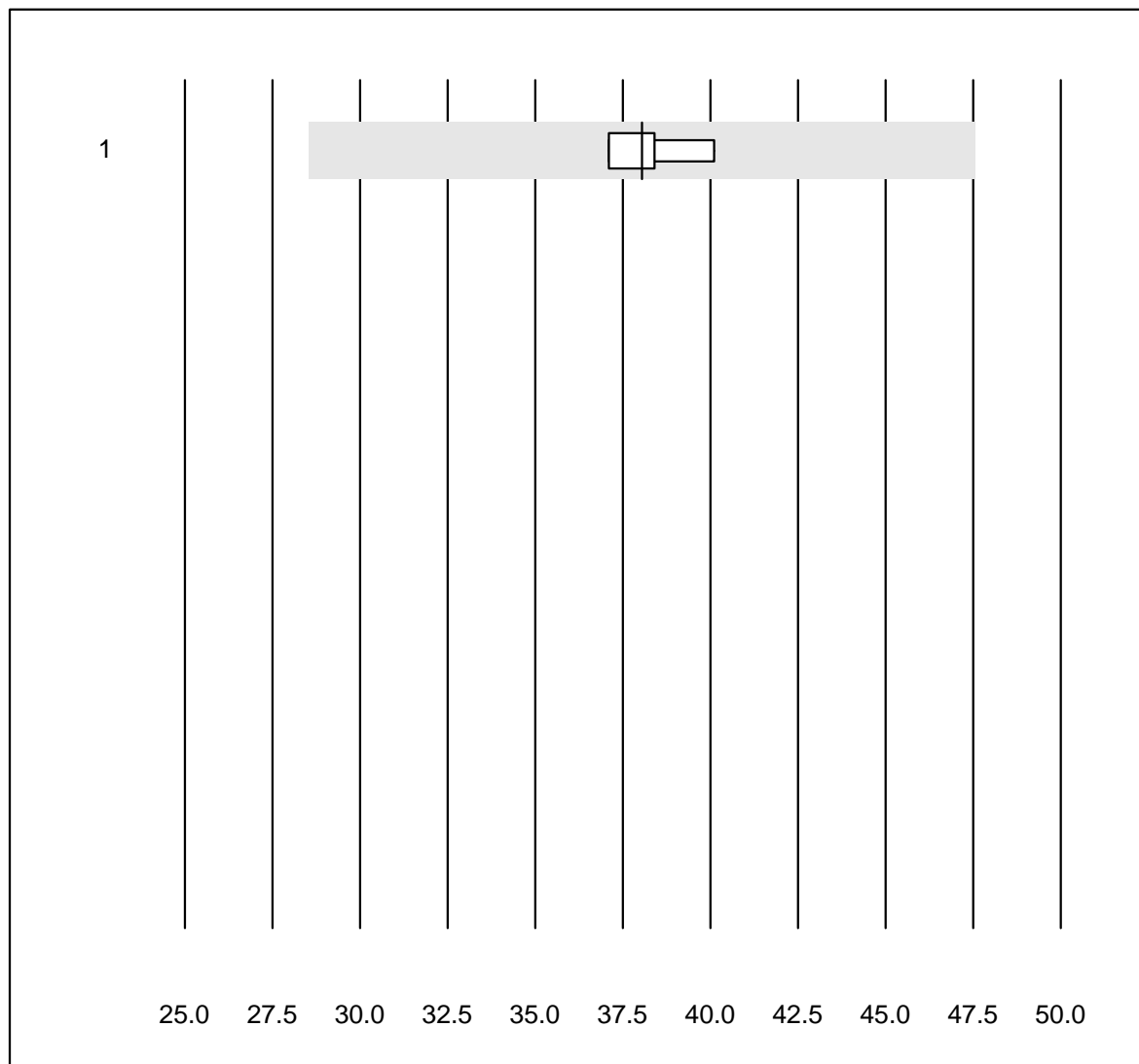


QUALAB tolerance : 25 %

CA 125 (kIU/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Architect	4	100.0	0.0	0.0	72.3	3.8	e

CA 15-3

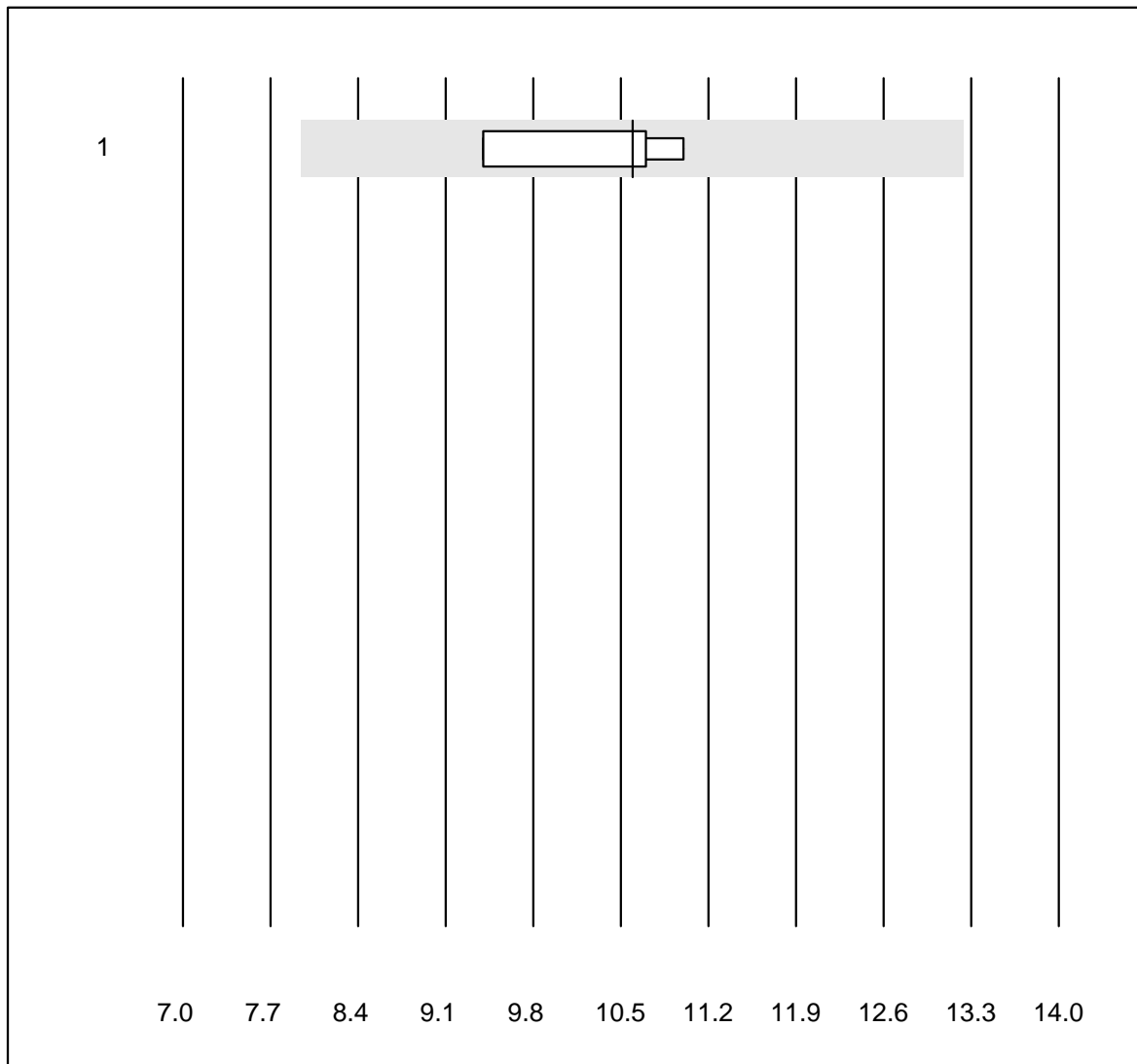


QUALAB tolerance : 25 %

CA 15-3 (kIU/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Architect	4	100.0	0.0	0.0	38.1	3.4	e

AFP

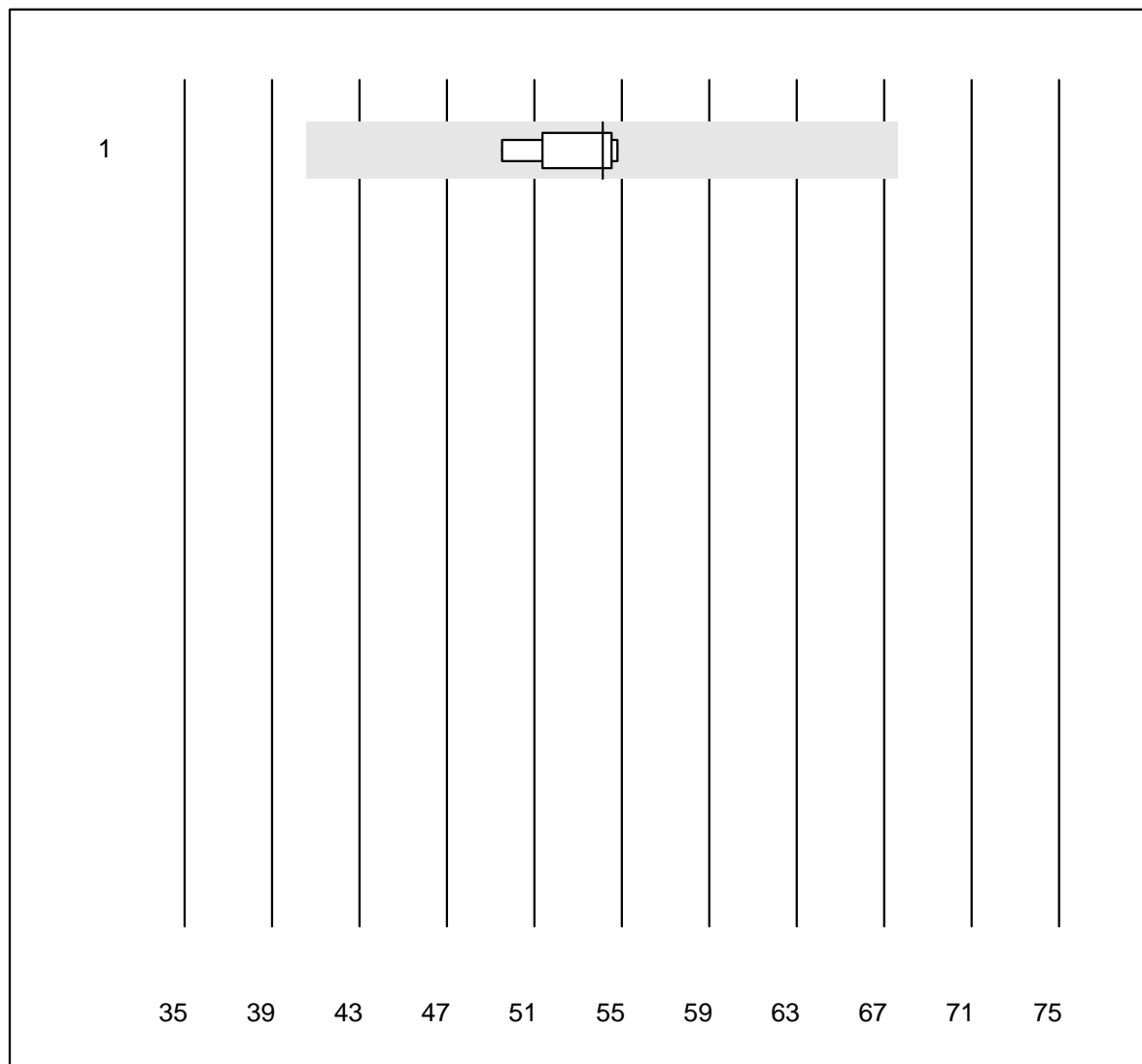


QUALAB tolerance : 25 %

AFP (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas E / Elecsys	4	100.0	0.0	0.0	11	6.7	e*

HCG qn



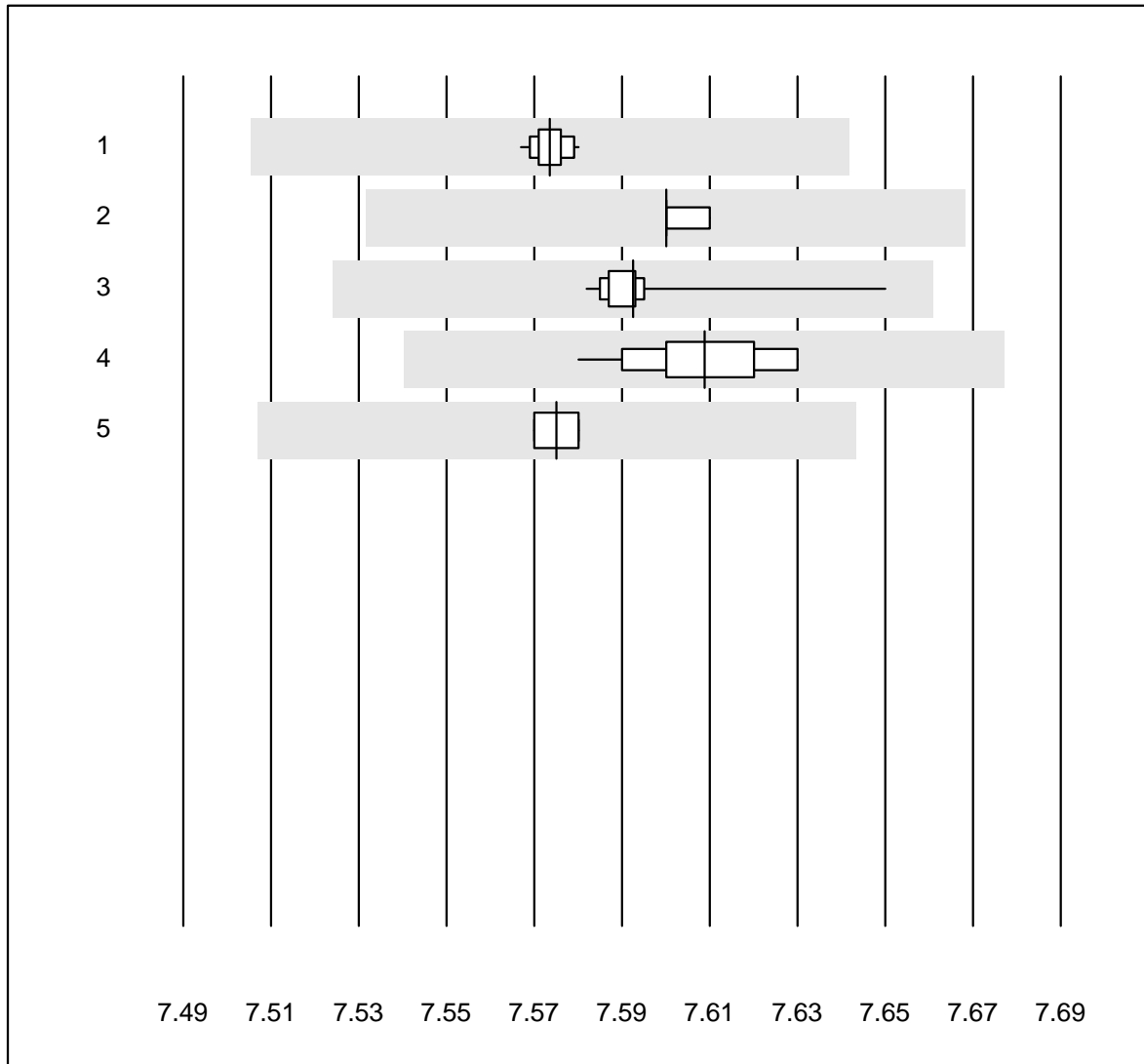
QUALAB tolerance : 25 %

HCG qn (U/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Cobas E / Elecsys	6	100.0	0.0	0.0	54	4.0	e

K16 Blood Gases Radiometer

pH OR

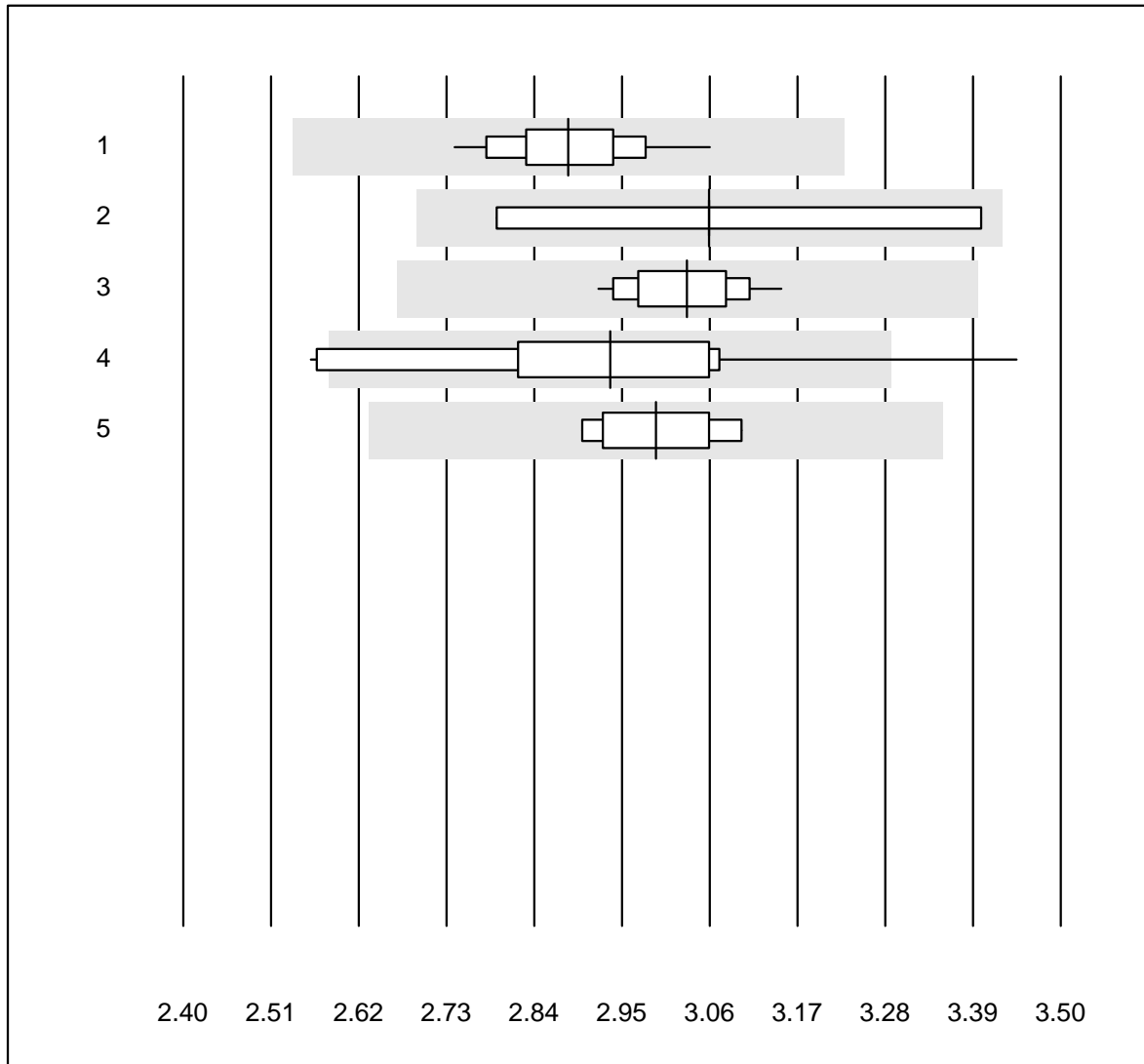


QUALAB tolerance : 1 %

pH OR ()

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	81	100.0	0.0	0.0	7.57	0.0	e
2	Radiometer NPT-7	5	100.0	0.0	0.0	7.60	0.1	e
3	ABL 90	25	100.0	0.0	0.0	7.59	0.2	e
4	ABL 80 / Coox	16	100.0	0.0	0.0	7.61	0.2	e
5	ABL 5	6	100.0	0.0	0.0	7.58	0.1	e

pCO2 OR

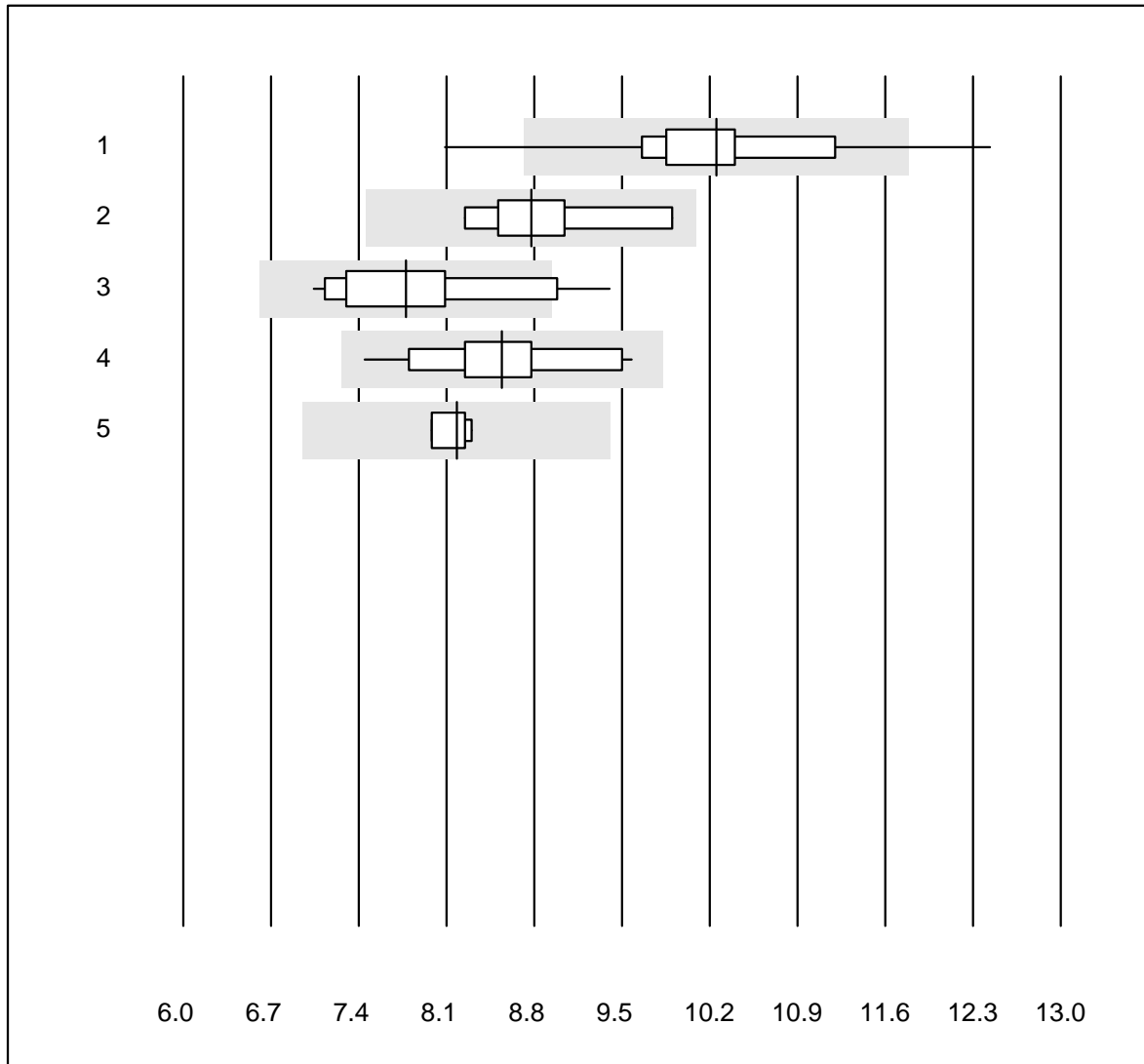


QUALAB tolerance : 12 %

pCO2 OR (kPa)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	80	100.0	0.0	0.0	2.88	2.7	e
2	Radiometer NPT-7	5	100.0	0.0	0.0	3.06	7.0	e*
3	ABL 90	25	96.0	0.0	4.0	3.03	2.1	e
4	ABL 80 / Coox	16	74.9	18.8	6.3	2.94	7.7	e*
5	ABL 5	6	100.0	0.0	0.0	2.99	2.9	e

pO2 OR

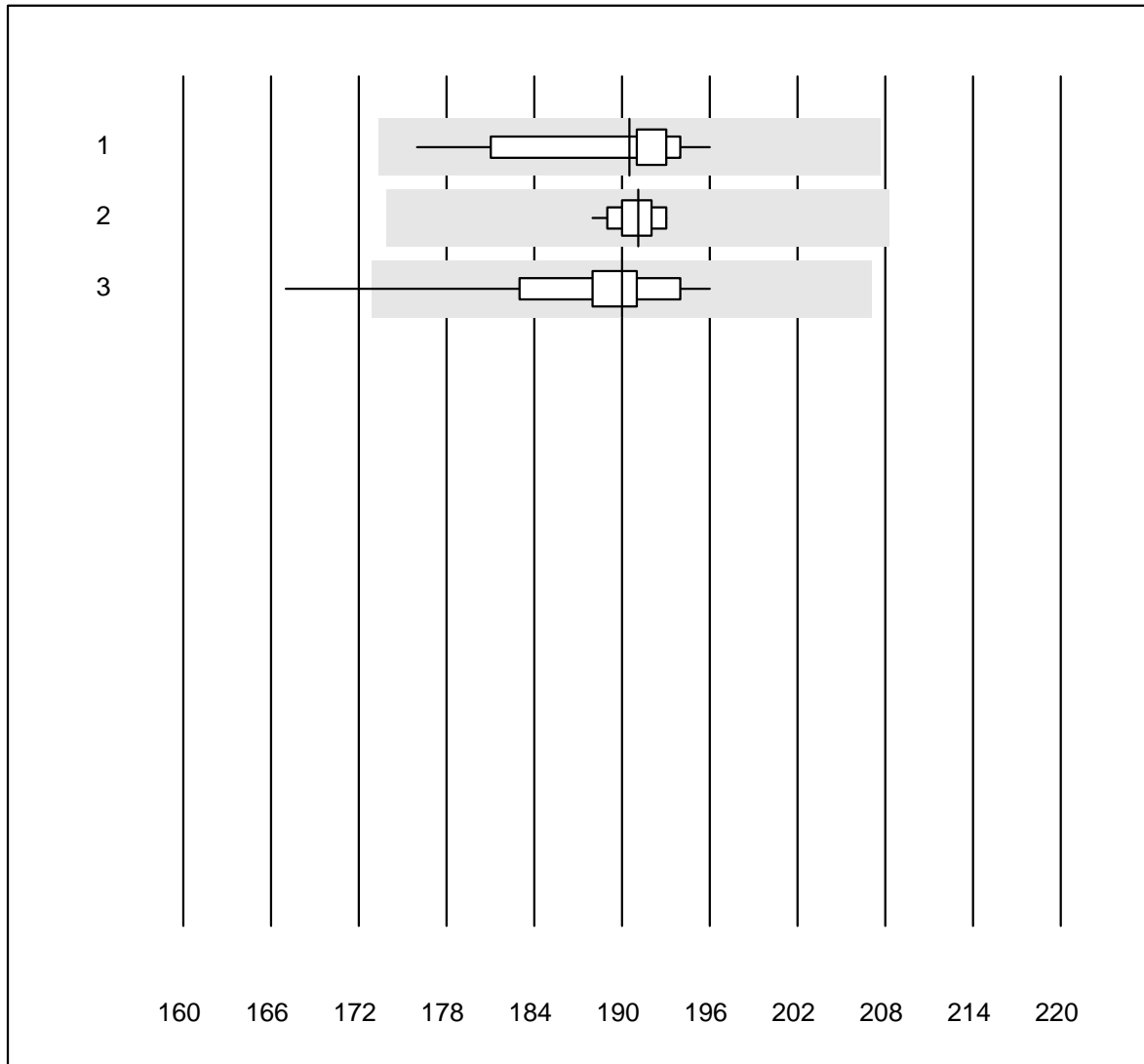


QUALAB tolerance : 15 %

pO2 OR (kPa)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	80	91.2	6.3	2.5	10.25	6.8	e
2	Radiometer NPT-7	5	100.0	0.0	0.0	8.78	7.1	e*
3	ABL 90	25	76.0	12.0	12.0	7.78	9.1	e*
4	ABL 80 / Coox	16	87.5	0.0	12.5	8.54	7.0	e
5	ABL 5	6	83.3	0.0	16.7	8.18	1.8	e

ctHb OR

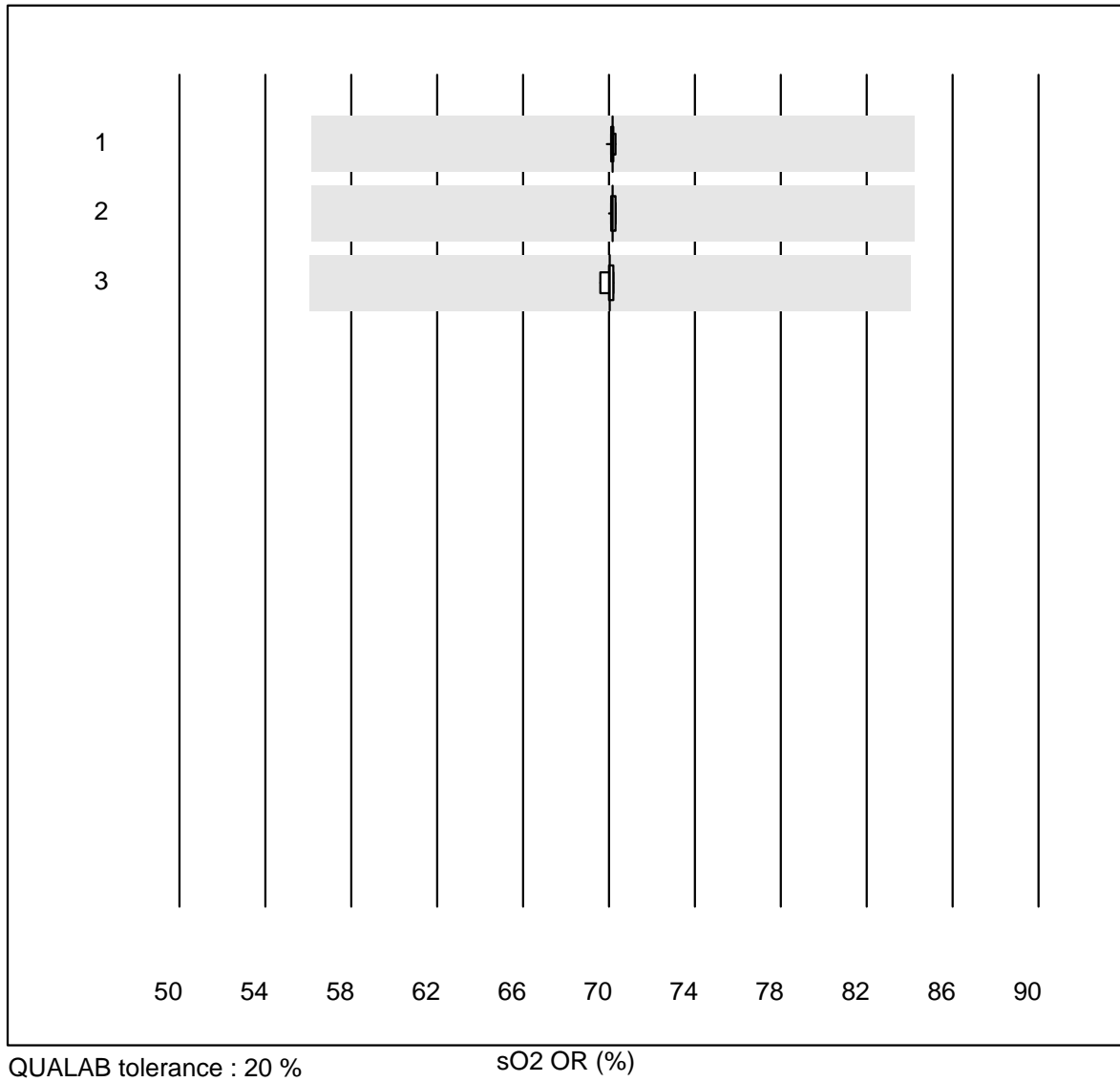


QUALAB tolerance : 9 %

ctHb OR (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	71	95.8	0.0	4.2	190.5	2.4	e
2	ABL 90	24	91.7	0.0	8.3	191.1	0.7	e
3	ABL 80 / Coox	12	91.7	8.3	0.0	190.0	4.0	e*

sO2 OR

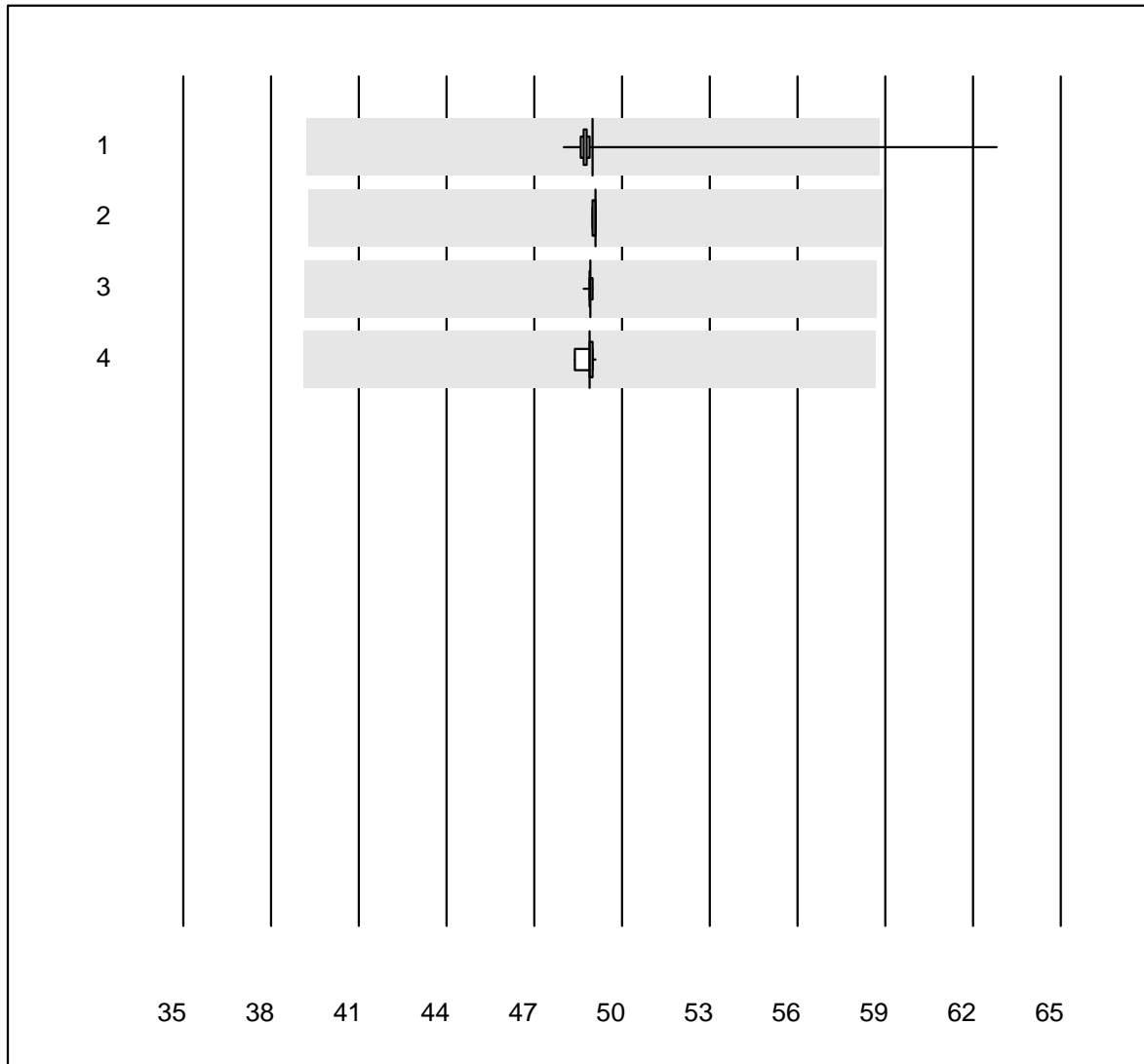


QUALAB tolerance : 20 %

sO2 OR (%)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	53	100.0	0.0	0.0	70.174	0.1	e
2	ABL 90	22	100.0	0.0	0.0	70.177	0.1	e
3	ABL 80 / Coox	10	100.0	0.0	0.0	70.050	0.3	e

FO2Hb OR

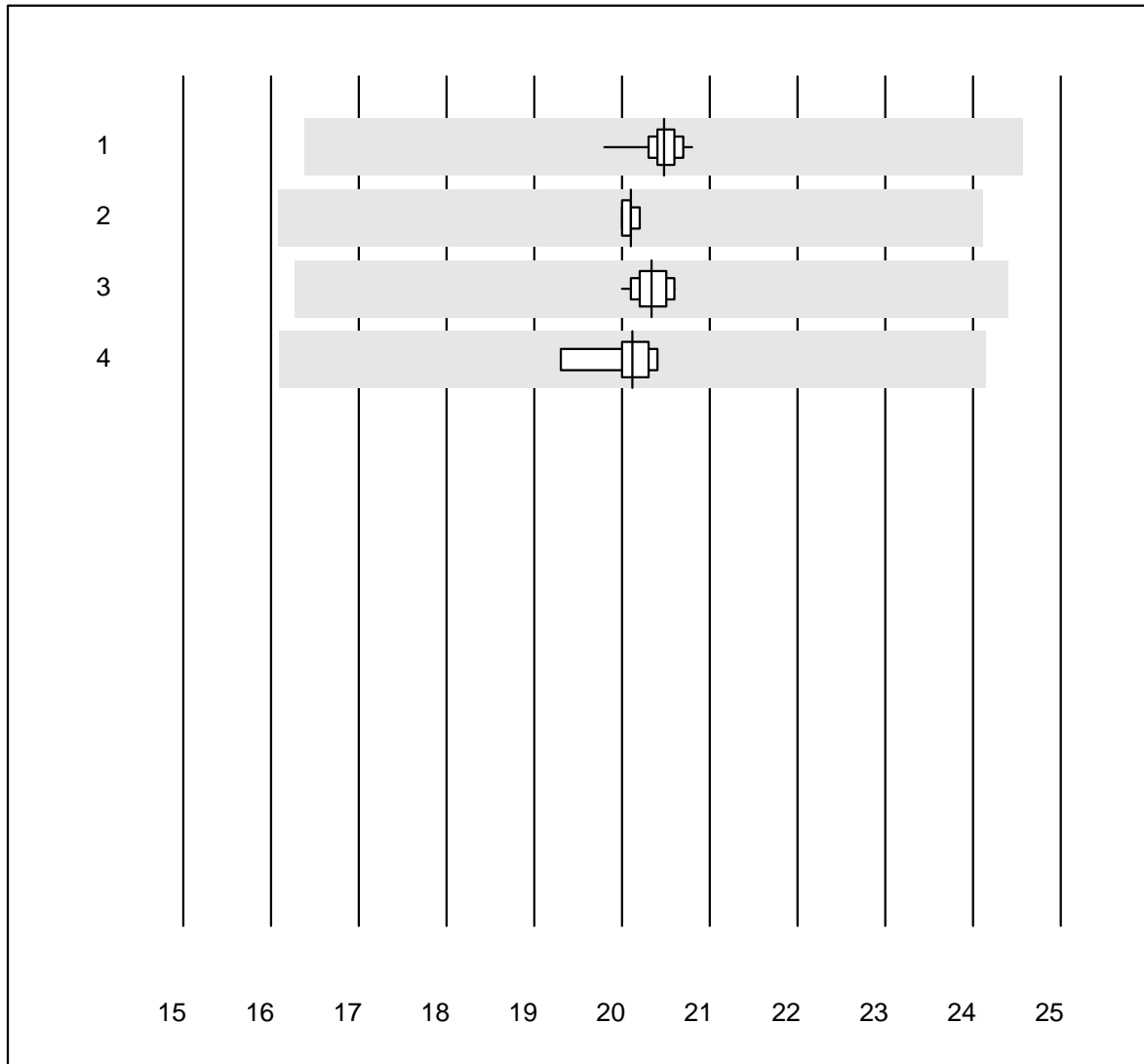


QUALAB tolerance : 20 %

FO2Hb OR (%)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	50	98.0	2.0	0.0	49.004	4.1	e
2	Radiometer NPT-7	4	100.0	0.0	0.0	49.100	0.1	e
3	ABL 90	22	100.0	0.0	0.0	48.905	0.1	e
4	ABL 80 / Coox	11	90.9	0.0	9.1	48.899	0.4	e

FCOHb OR

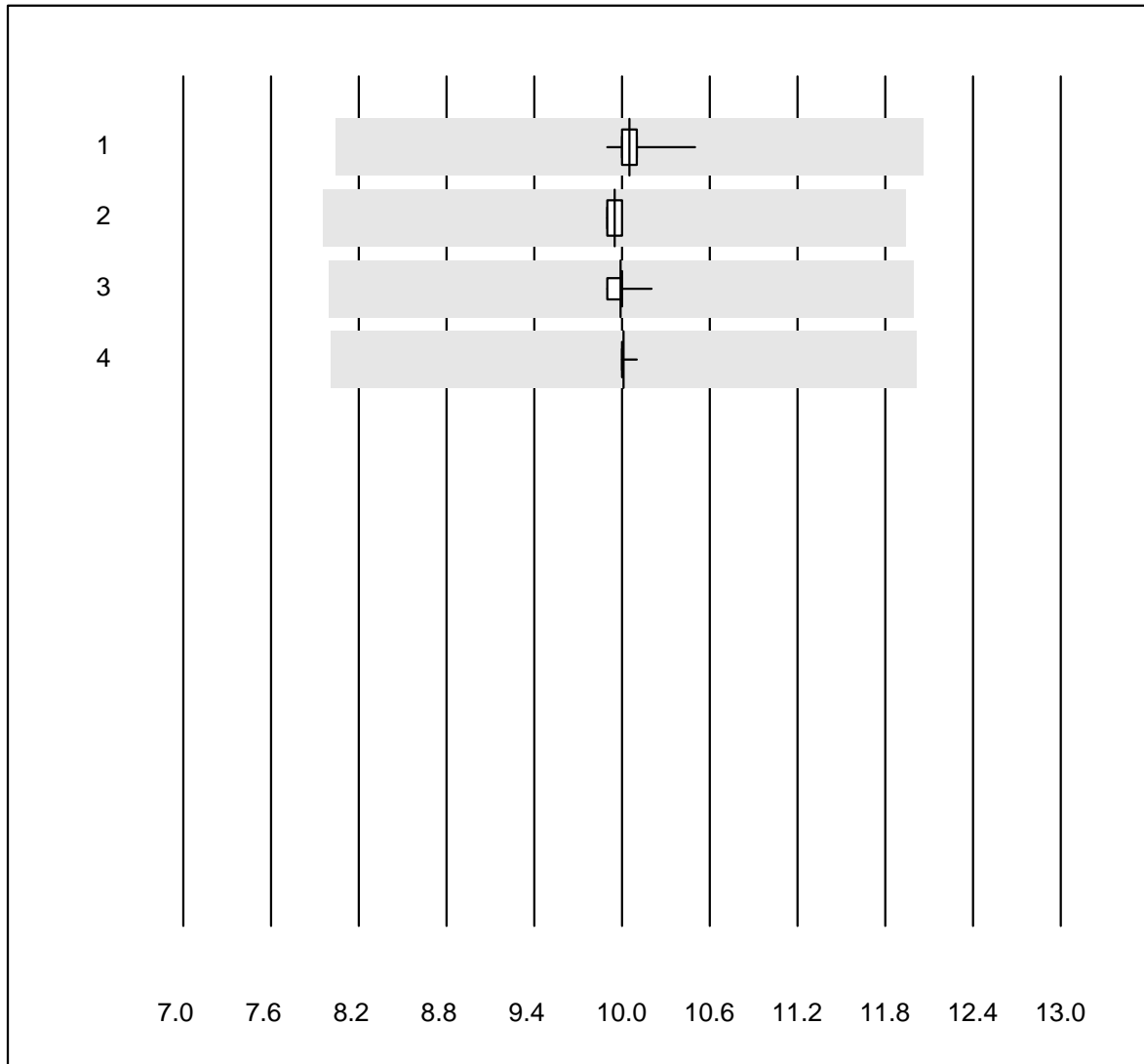


QUALAB tolerance : 20 %

FCOHb OR (%)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	51	98.0	0.0	2.0	20.478	1.0	e
2	Radiometer NPT-7	4	100.0	0.0	0.0	20.100	0.4	e
3	ABL 90	22	100.0	0.0	0.0	20.336	0.9	e
4	ABL 80 / Coox	11	90.9	0.0	9.1	20.120	1.6	e

FMetHb OR

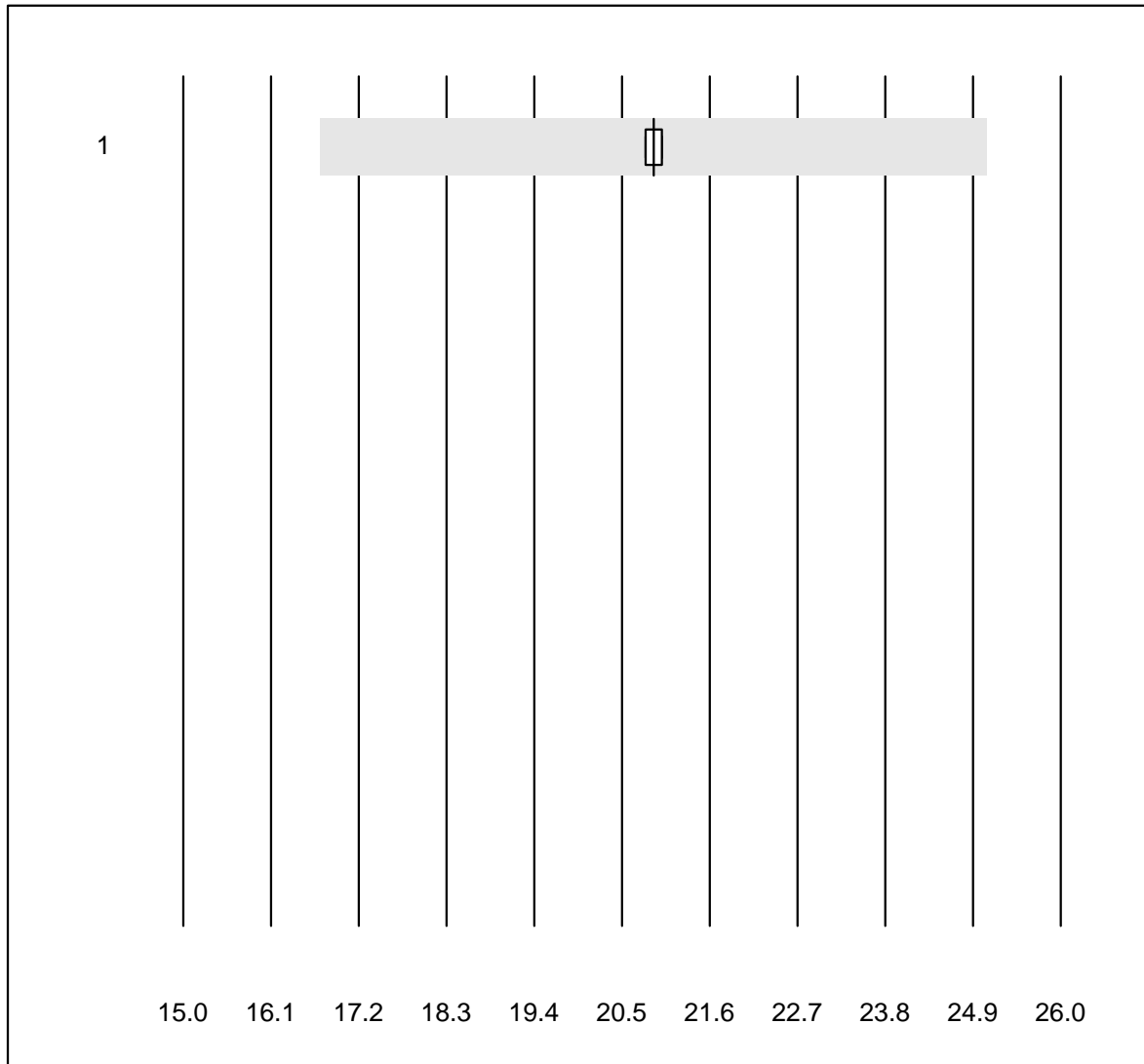


QUALAB tolerance : 20 %

FMetHb OR (%)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	52	98.1	0.0	1.9	10.049	1.2	e
2	Radiometer NPT-7	4	100.0	0.0	0.0	9.950	0.6	e
3	ABL 90	22	100.0	0.0	0.0	9.991	0.6	e
4	ABL 80 / Coox	11	90.9	0.0	9.1	10.010	0.3	e

FHHb

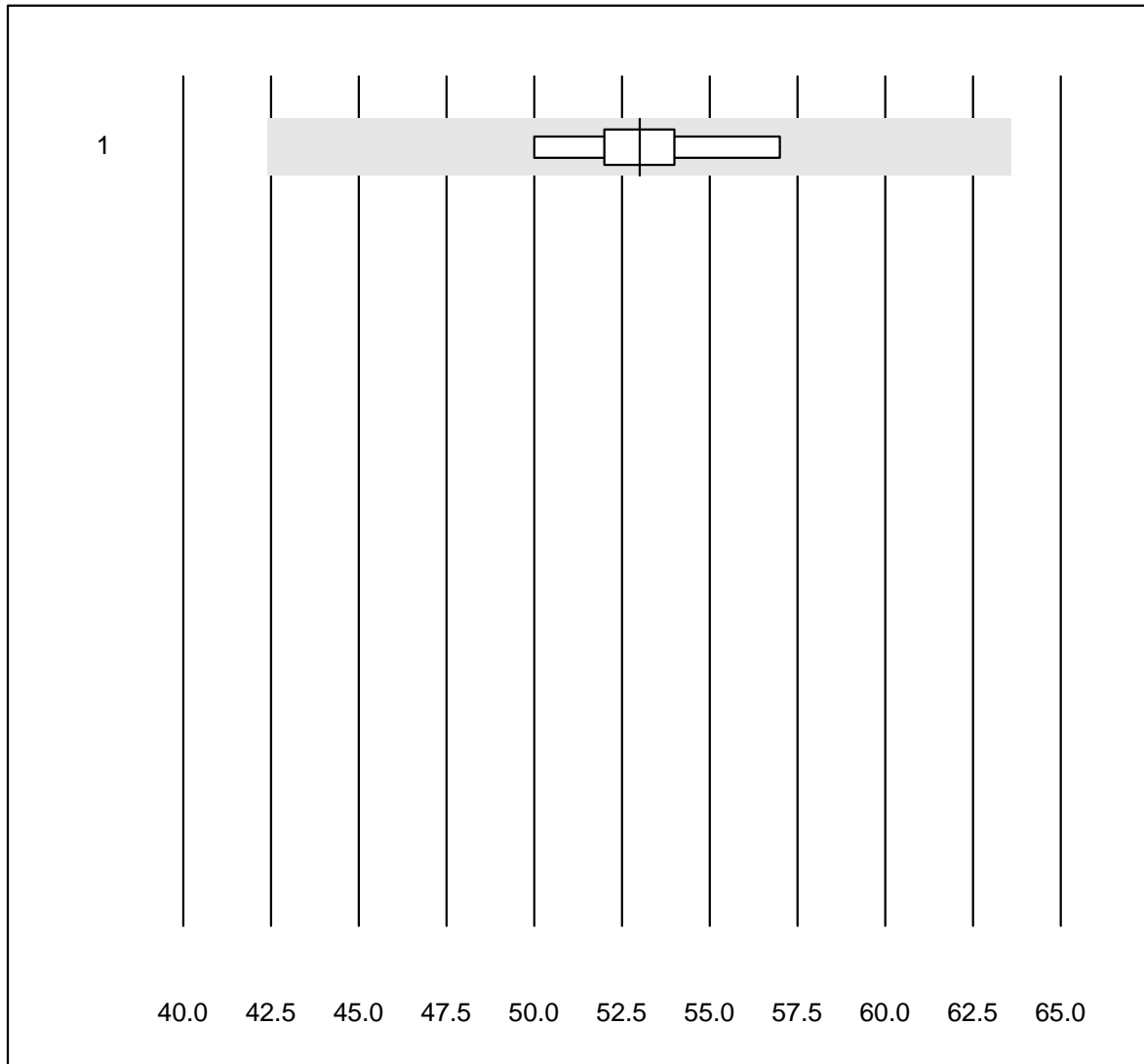


QUALAB tolerance : 20 %

FHHb (%)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	ABL 80 / Coox	4	100.0	0.0	0.0	20.900	0.6	e

FHbF OR

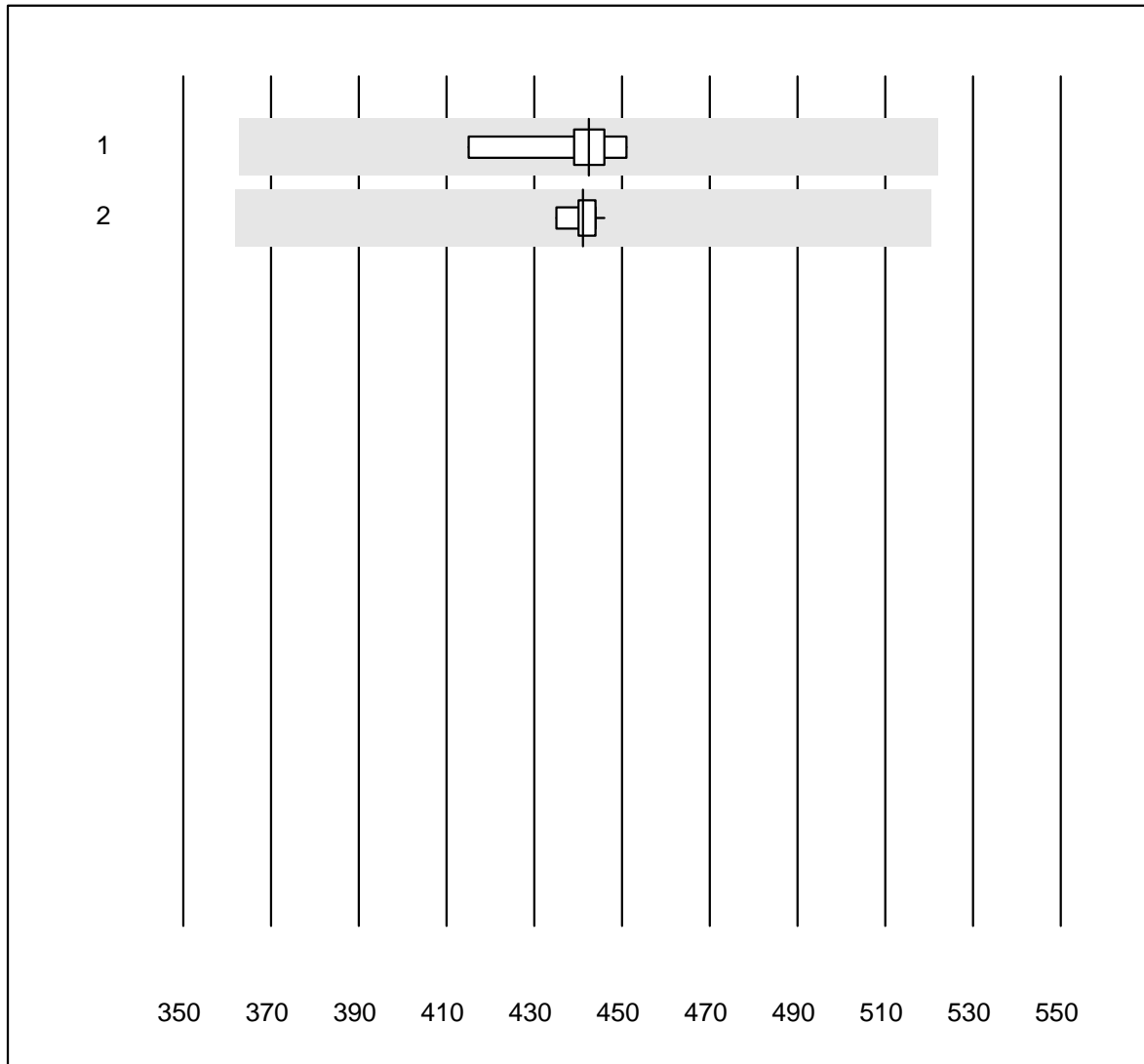


QUALAB tolerance : 20 %

FHbF OR (%)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	ABL 90	6	100.0	0.0	0.0	53.000	4.4	e

Bilirubin OR

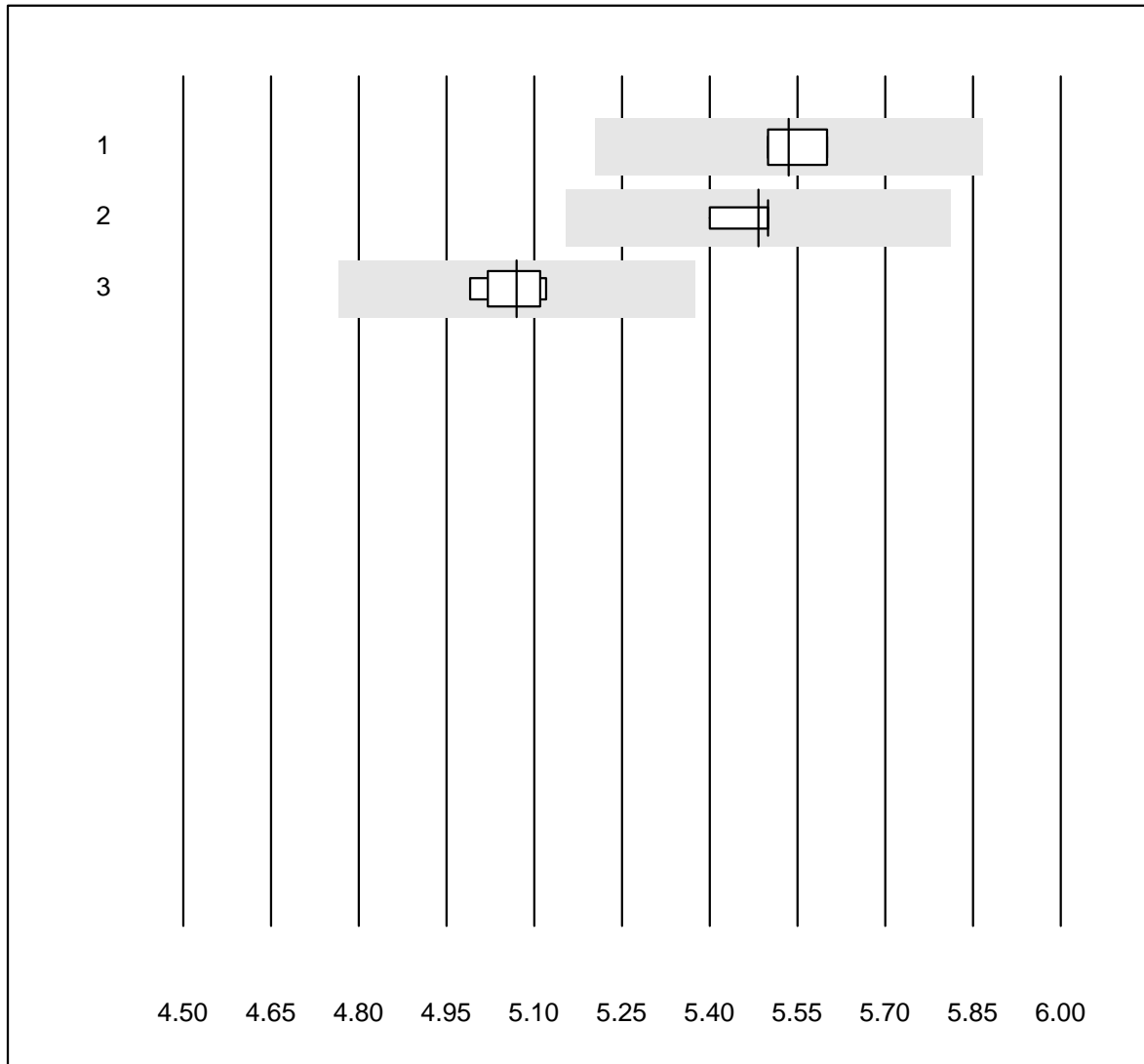


QUALAB tolerance : 18 %

Bilirubin OR (µmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	8	100.0	0.0	0.0	442.5	2.6	e
2	ABL 90	11	100.0	0.0	0.0	441.1	0.8	e

Potassium OR

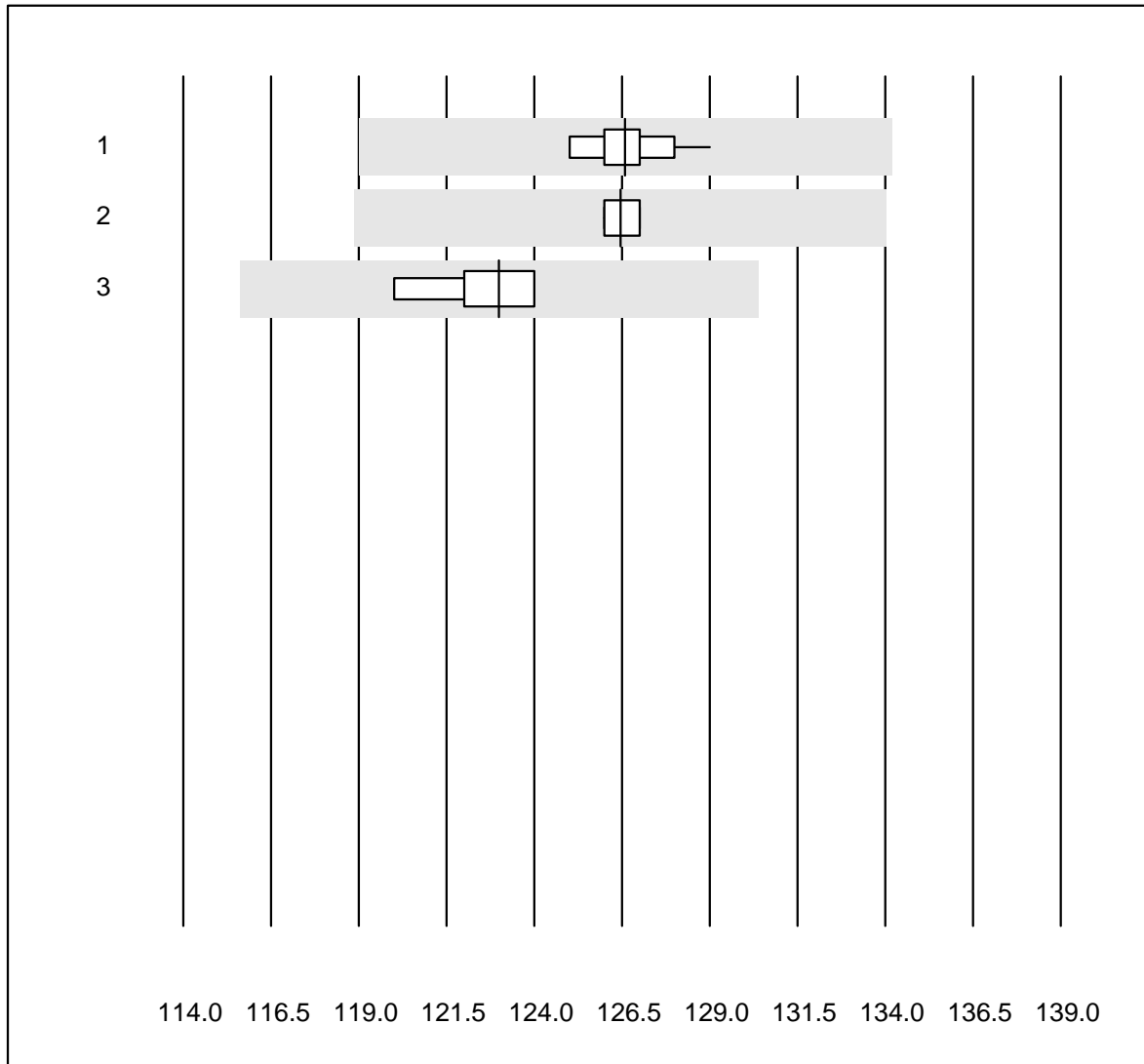


QUALAB tolerance : 6 %

Potassium OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	66	100.0	0.0	0.0	5.5	0.9	e
2	ABL 90	24	100.0	0.0	0.0	5.5	0.7	e
3	ABL 80 / Coox	6	100.0	0.0	0.0	5.1	1.1	e

Sodium OR

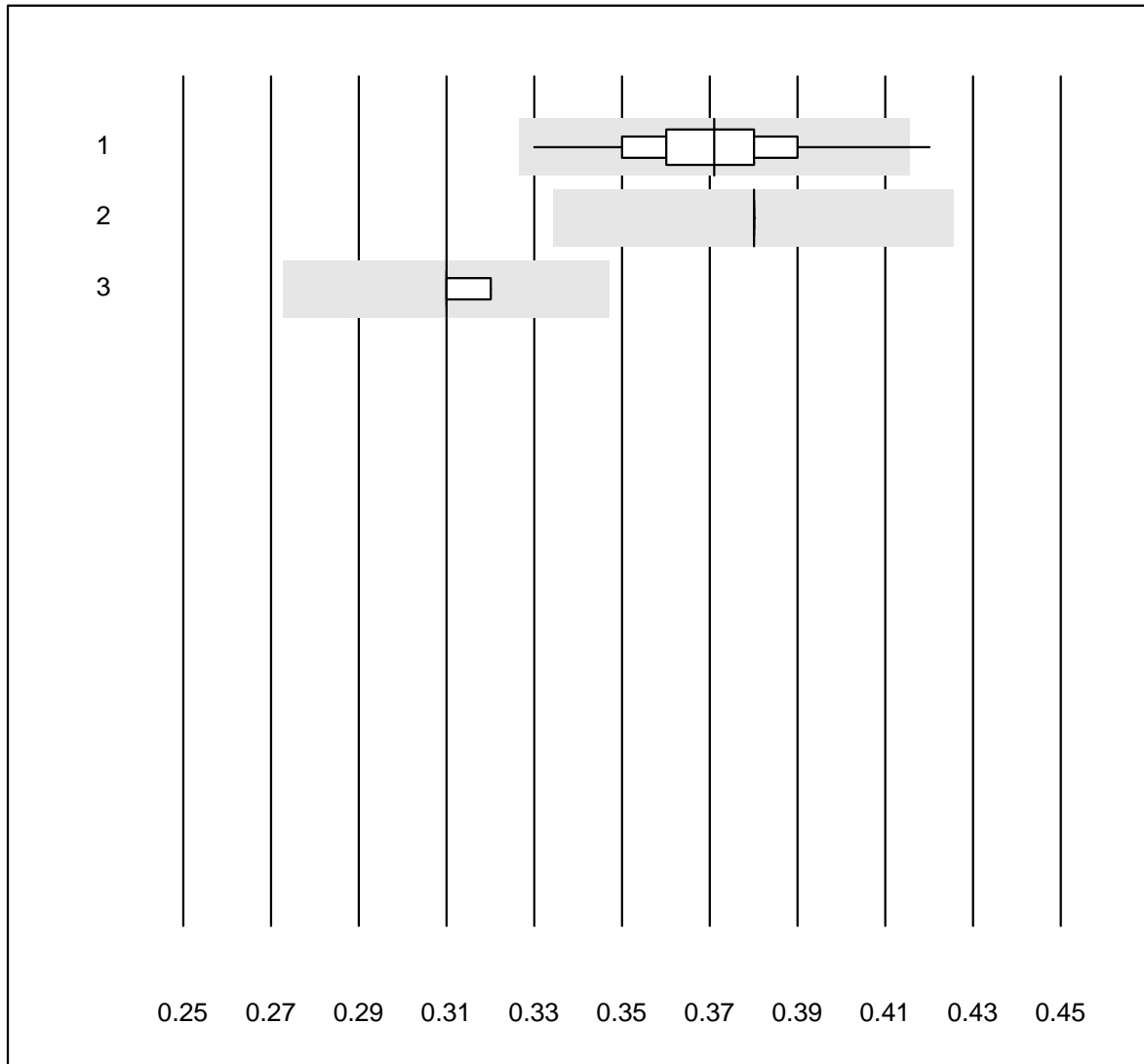


QUALAB tolerance : 6 %

Sodium OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	63	100.0	0.0	0.0	126.6	0.7	e
2	ABL 90	24	100.0	0.0	0.0	126.5	0.4	e
3	ABL 80 / Coox	5	100.0	0.0	0.0	123.0	1.4	e

Calcium OR

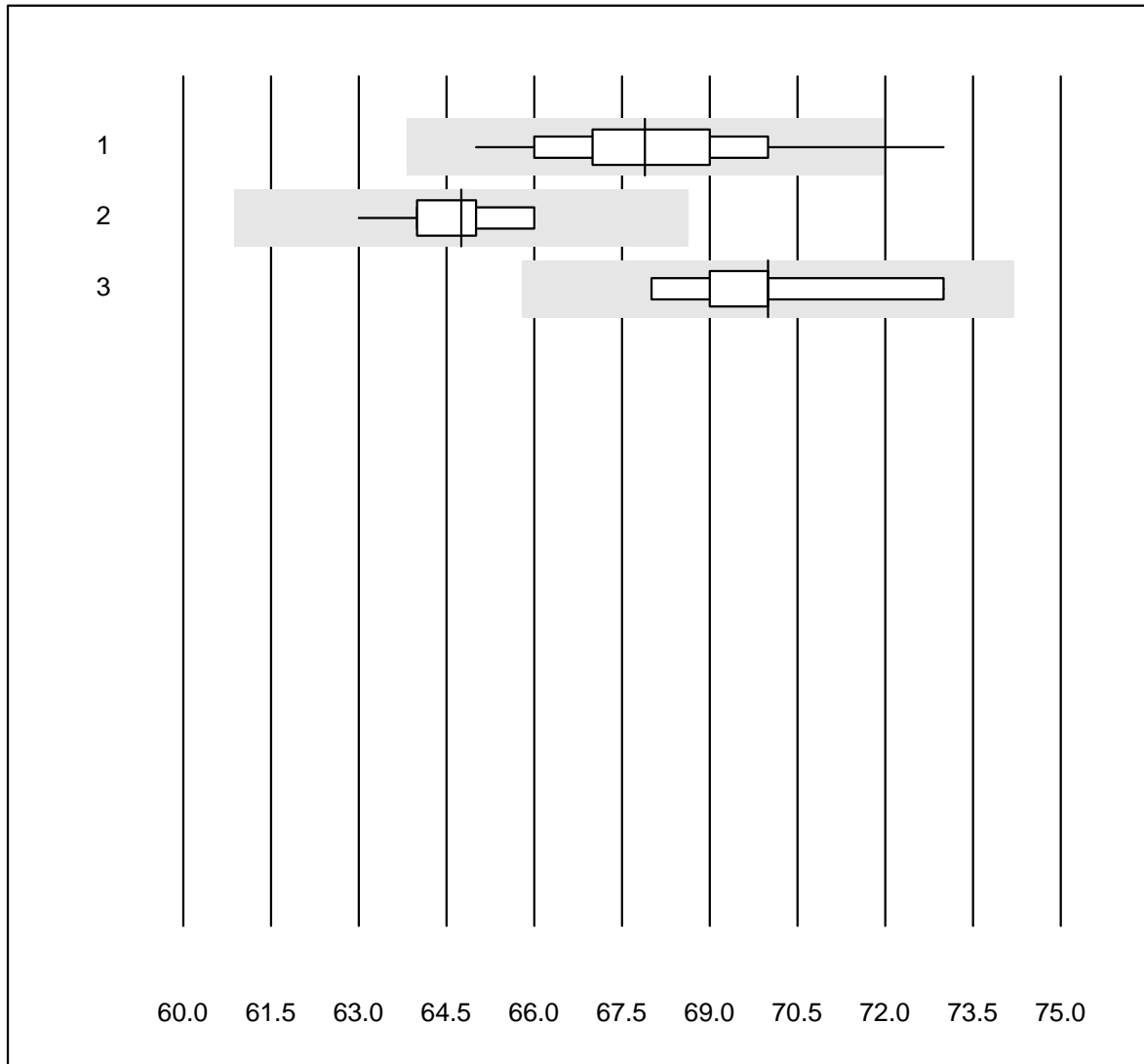


QUALAB tolerance : 12 %

Calcium OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	64	96.8	1.6	1.6	0.37	4.1	e
2	ABL 90	24	100.0	0.0	0.0	0.38	0.0	e
3	ABL 80 / Coox	5	100.0	0.0	0.0	0.31	1.4	e

Choride OR

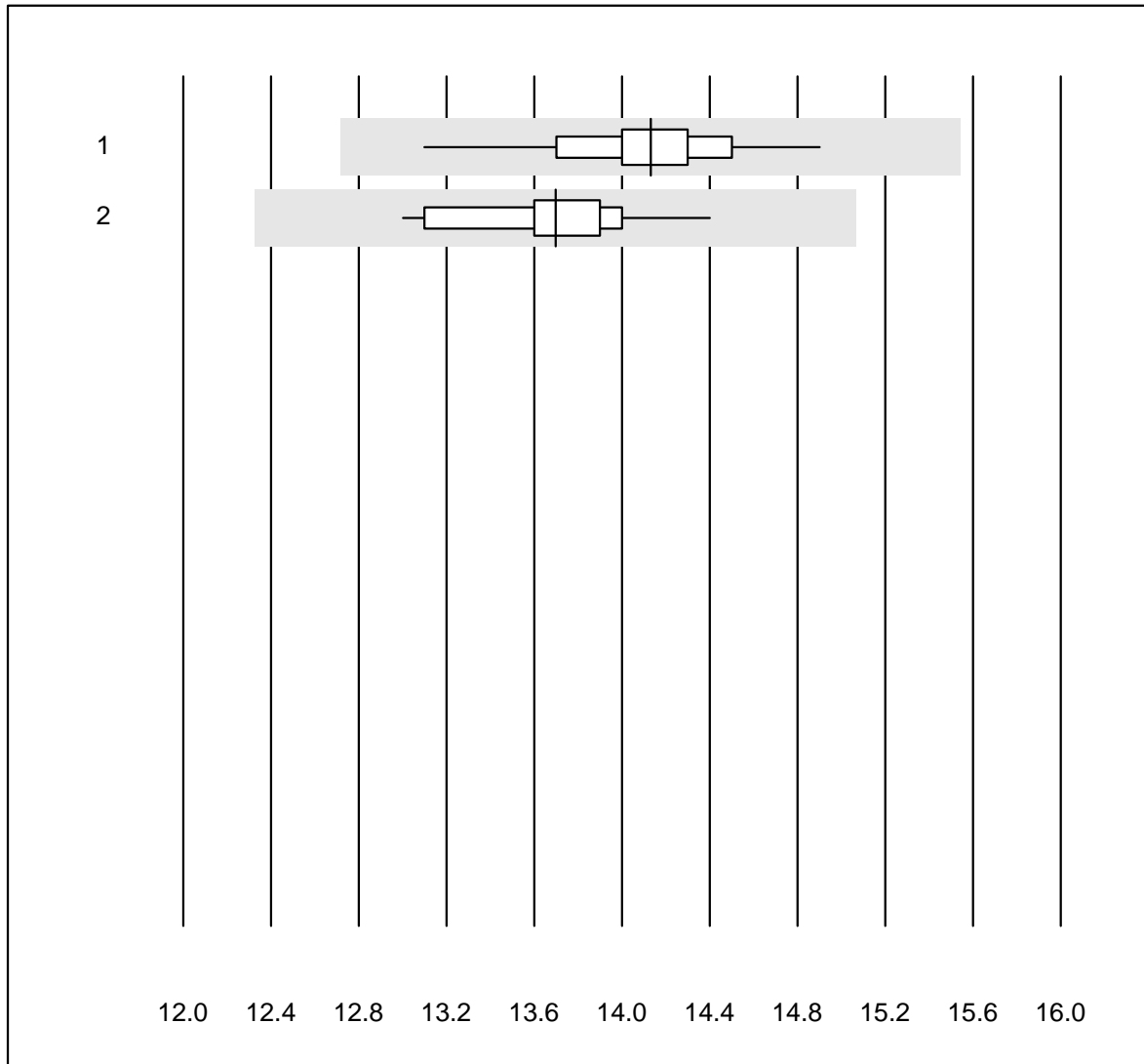


QUALAB tolerance : 6 %

Choride OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	53	96.2	3.8	0.0	67.89	2.7	e
2	ABL 90	24	100.0	0.0	0.0	64.75	1.1	e
3	ABL 80 / Coox	5	100.0	0.0	0.0	70.00	2.7	e*

Glucose OR

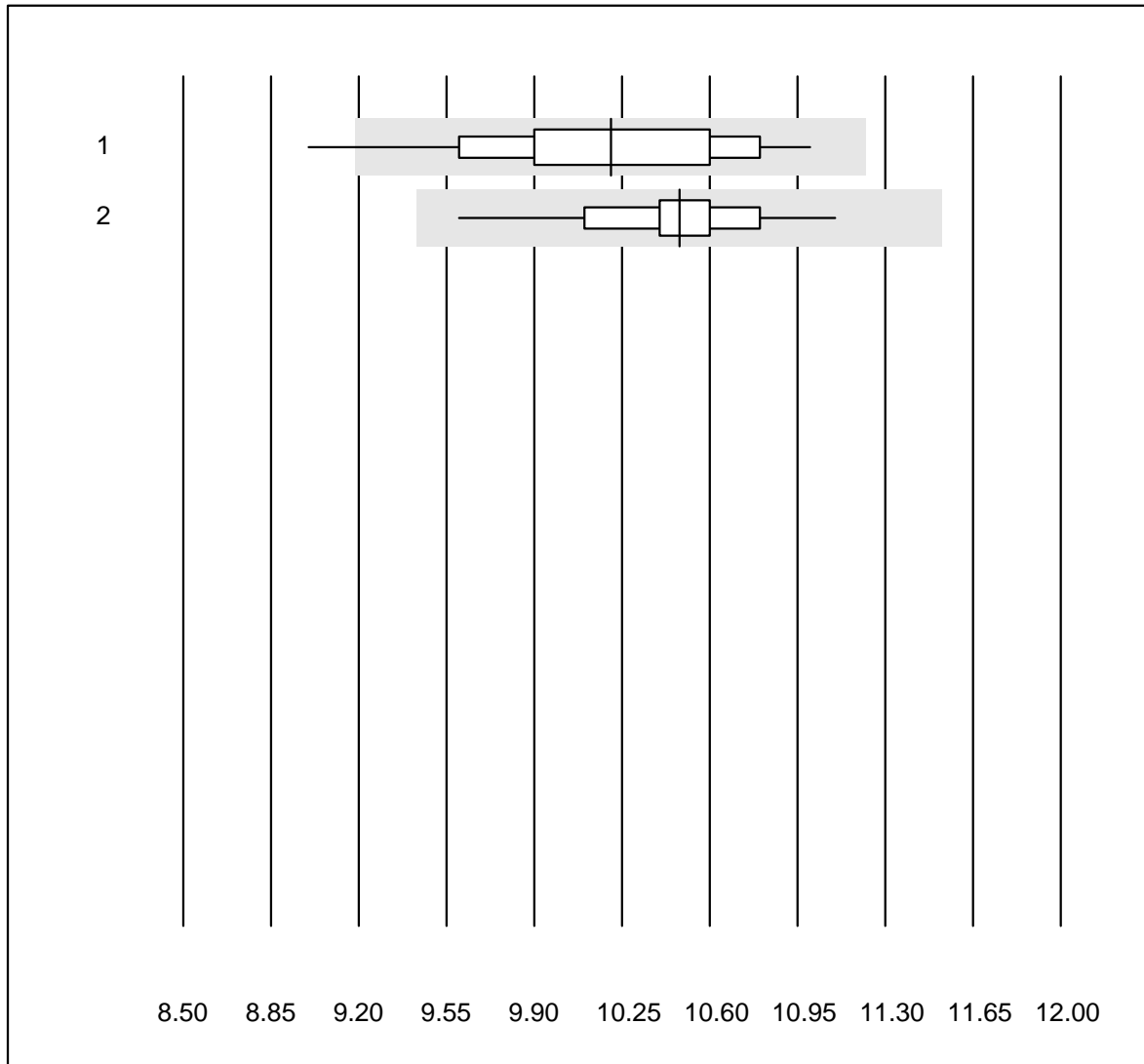


QUALAB tolerance : 10 %

Glucose OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	65	100.0	0.0	0.0	14.1	2.1	e
2	ABL 90	24	100.0	0.0	0.0	13.7	2.6	e

Lactate OR

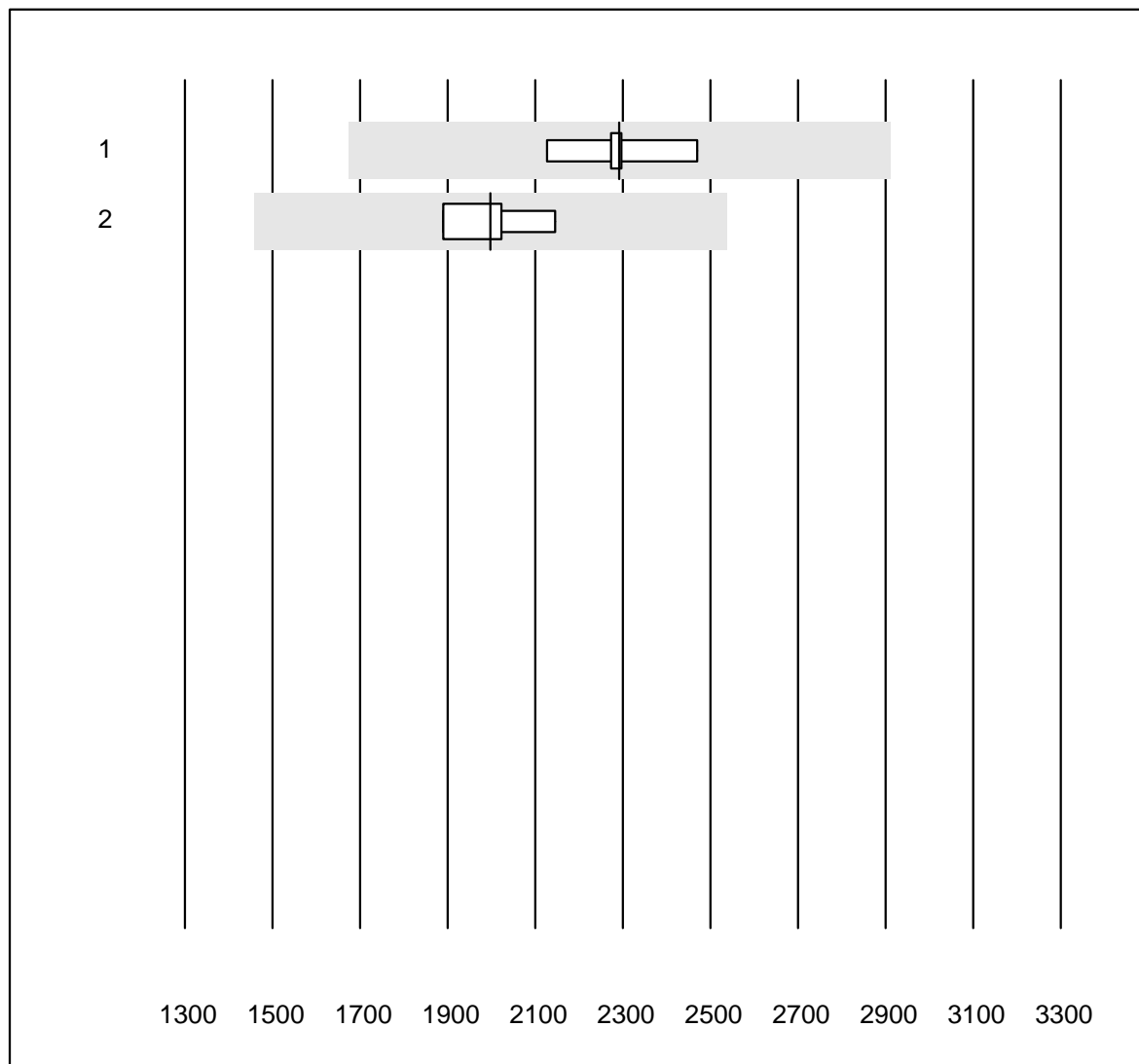


QUALAB tolerance : 10 %

Lactate OR (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ABL700/800 Radiomete	67	98.5	1.5	0.0	10.20	4.7	e
2	ABL 90	24	100.0	0.0	0.0	10.48	2.8	e

BNP Plasma

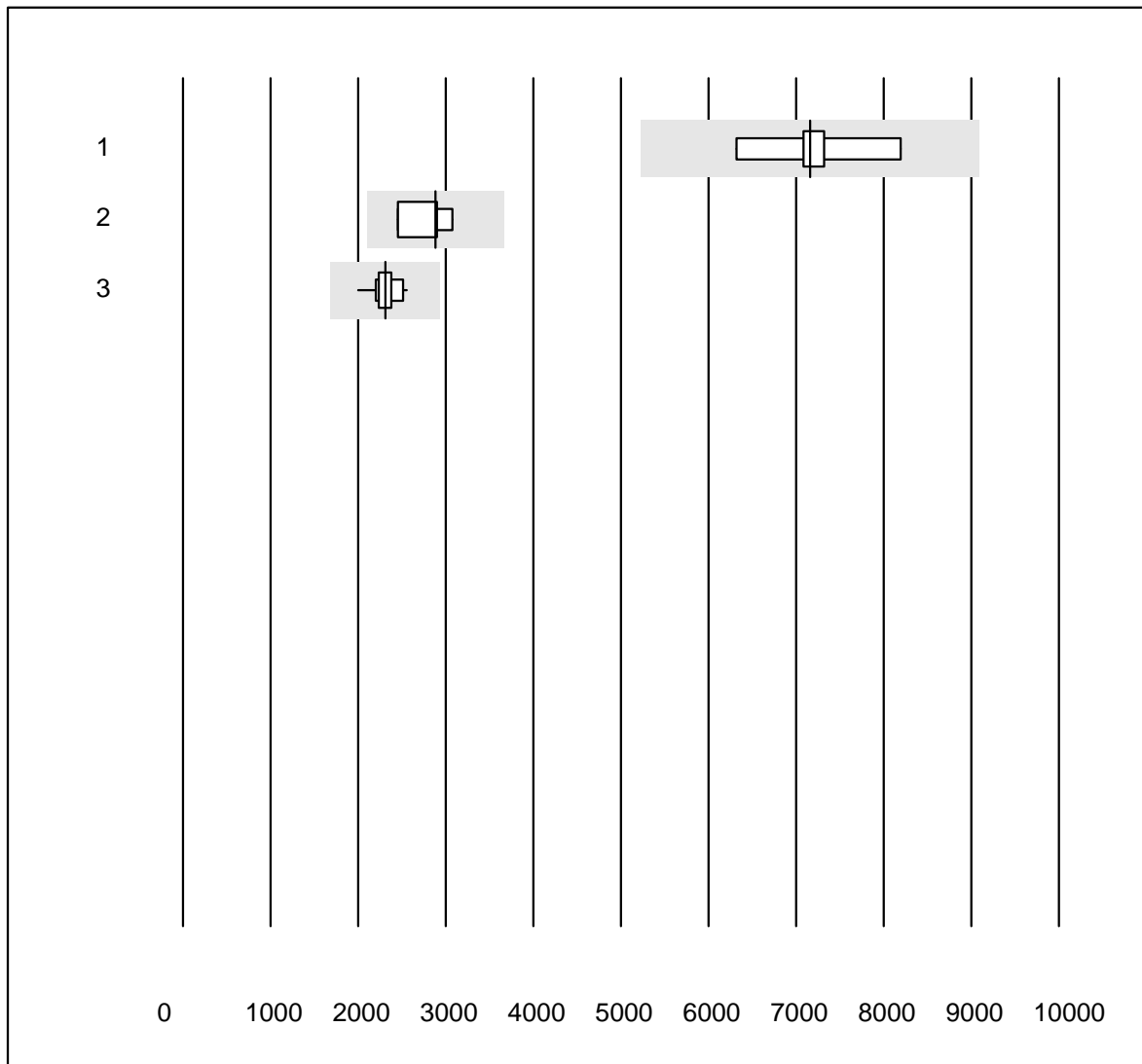


QUALAB tolerance : 27 %

BNP Plasma (ng/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ADVIA Centaur XP/CP	5	100.0	0.0	0.0	2292.0	5.3	e
2	Architect	4	100.0	0.0	0.0	1998.1	5.3	e

NT-proBNP

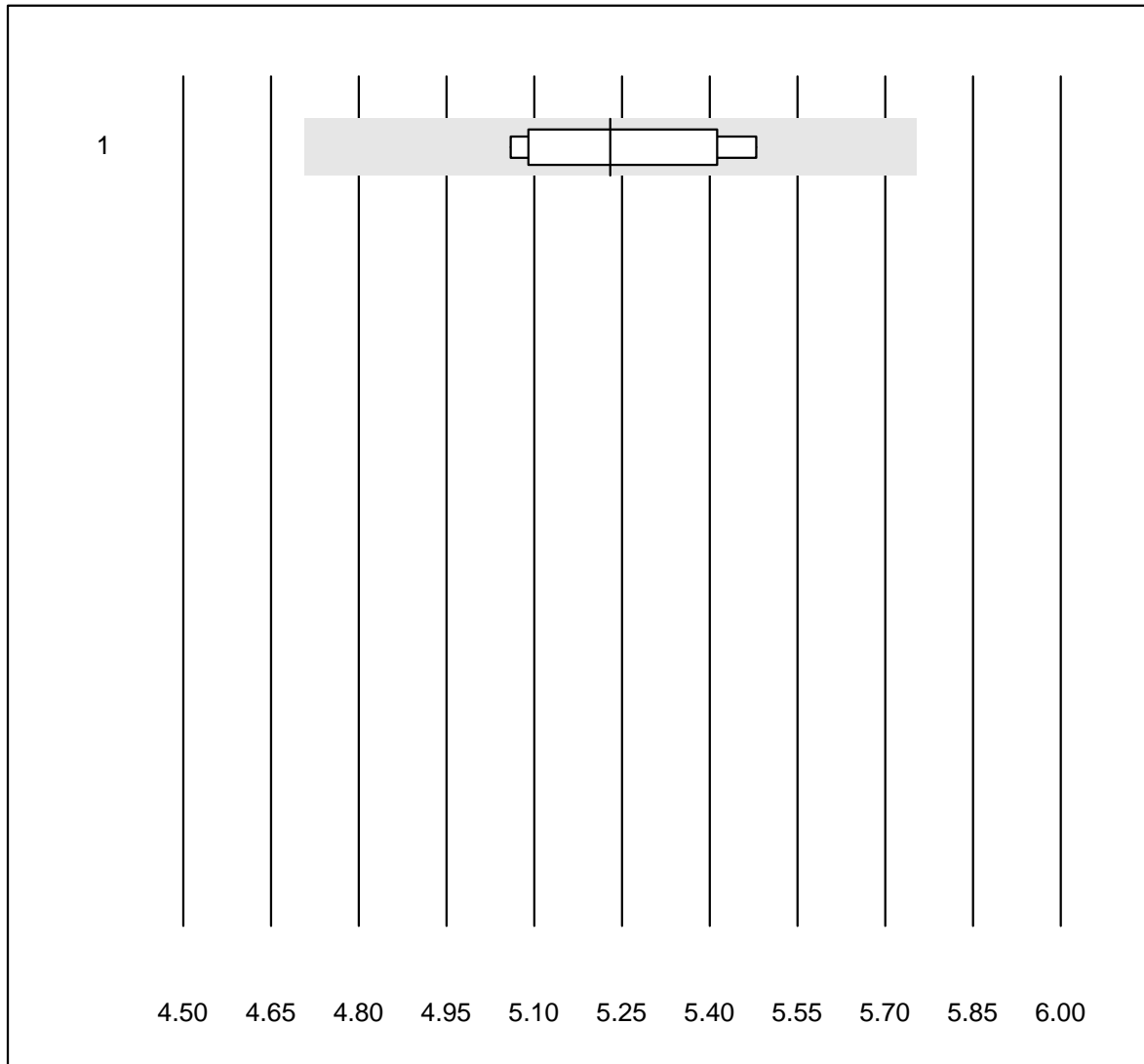


QUALAB tolerance : 27 %

NT-proBNP (ng/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	AQT 90 FLEX	6	100.0	0.0	0.0	7160.0	8.3	e*
2	Vidas	4	100.0	0.0	0.0	2882.5	9.4	e*
3	Cobas E / Elecsys	11	100.0	0.0	0.0	2306.7	6.6	e

Cholesterin PTS

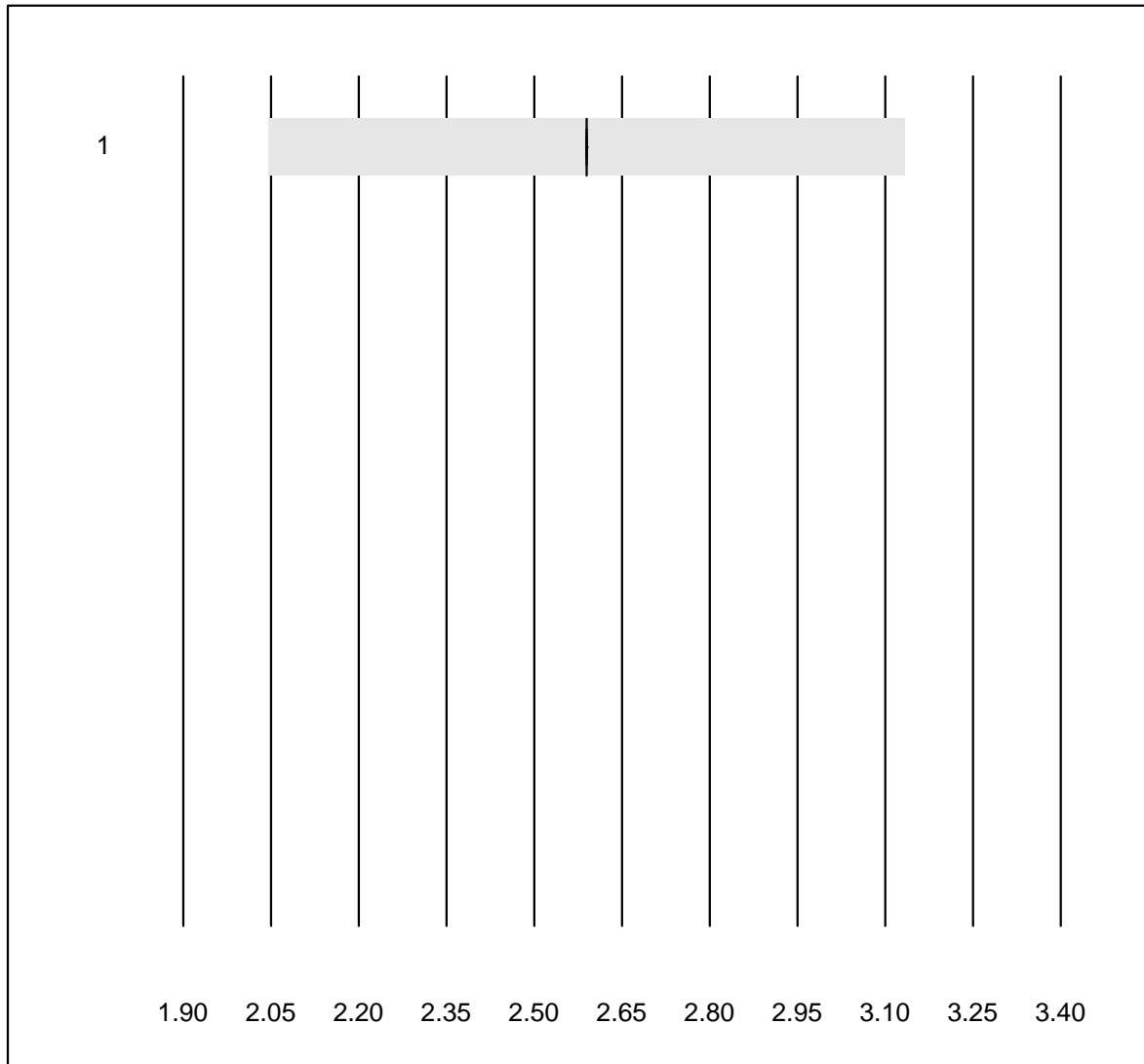


QUALAB tolerance : 10 %

Cholesterin PTS (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	CardioChek	5	100.0	0.0	0.0	5.23	3.6	e*

Cholesterin HDL PTS

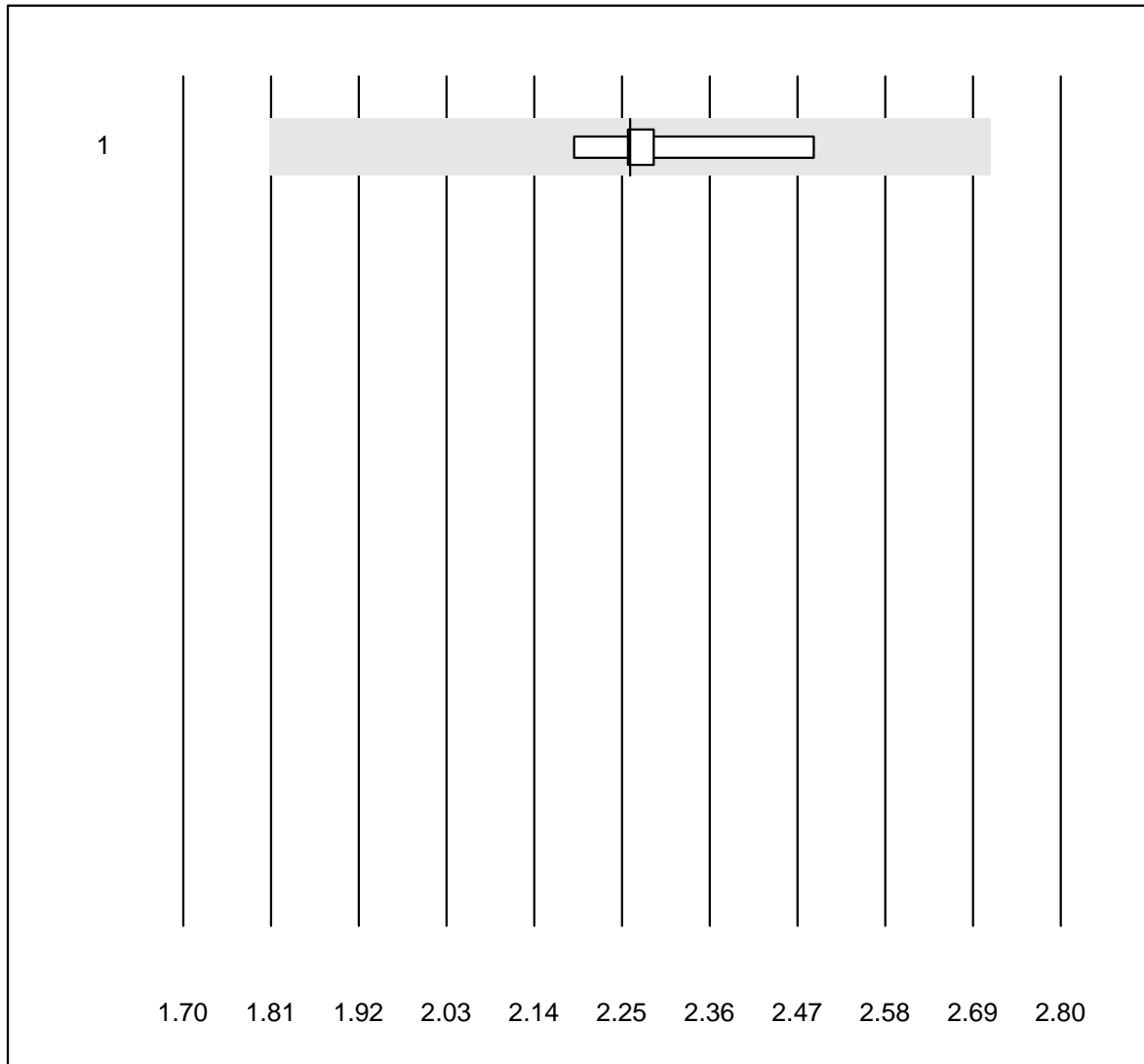


QUALAB tolerance : 21 %

Cholesterin HDL PTS (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	CardioChek	5	100.0	0.0	0.0	2.59	0.0	e

Triglyceride PTS

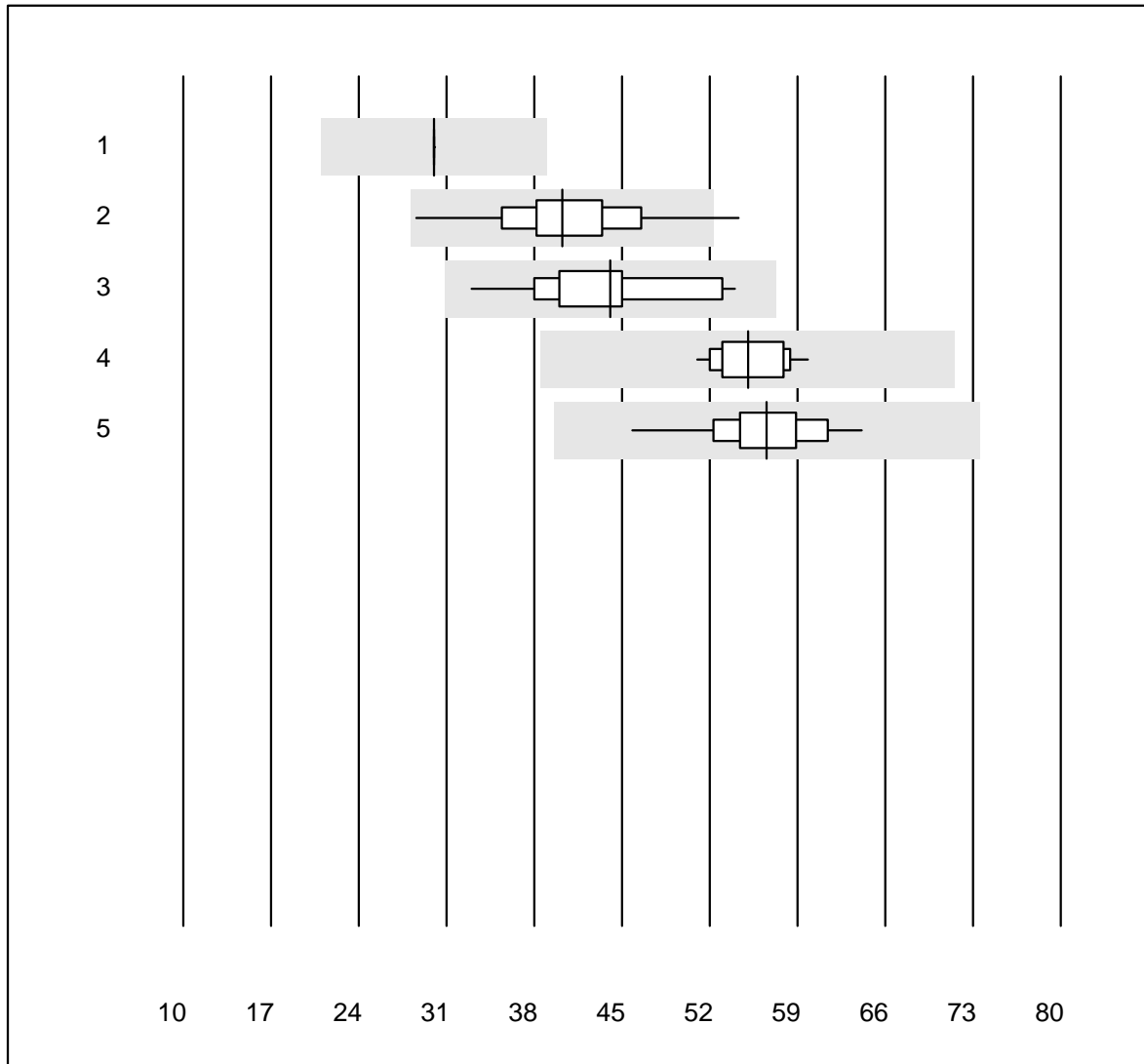


QUALAB tolerance : 20 %

Triglyceride PTS (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	CardioChek	5	100.0	0.0	0.0	2.26	4.9	e

Creatinine U

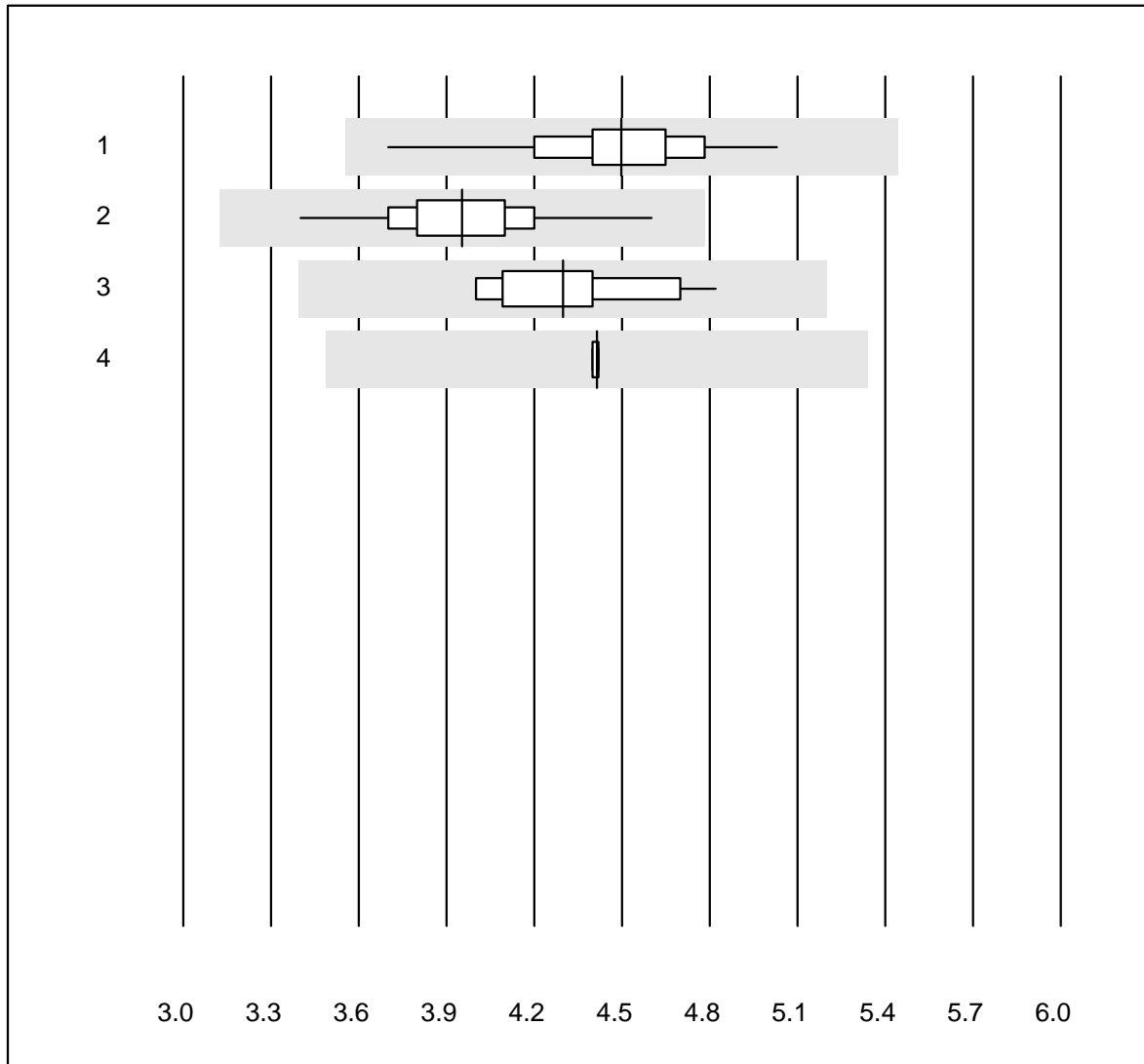


QUALAB tolerance : 30 %

Creatinine U (mg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Siemens Clinitek	11	81.8	0.0	18.2	30.0	0.0	e
2	Afinion	321	97.8	0.6	1.6	40.3	10.6	e
3	NycoCard	14	85.7	0.0	14.3	44.1	13.2	e
4	Turbidimetry	18	100.0	0.0	0.0	55.0	4.9	e
5	DCA2000/Vantage	115	99.1	0.0	0.9	56.5	6.1	e

Creatinin Urin

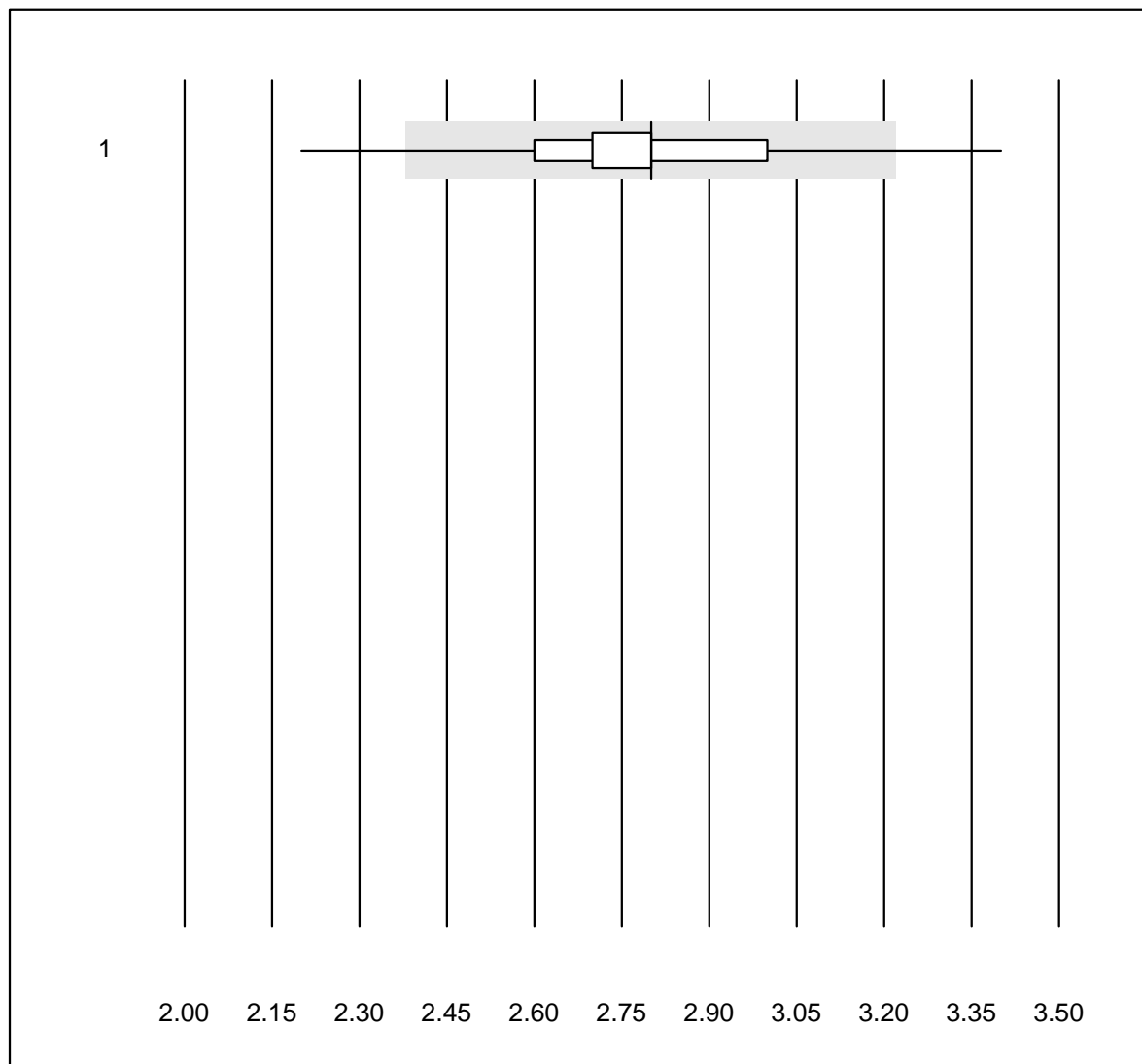


QUALAB tolerance : 21 %

Creatinin Urin (mmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	DCA2000/Vantage	115	98.3	0.0	1.7	4.5	5.0	e
2	Afinion	321	99.4	0.0	0.6	4.0	5.1	e
3	Standard chemistry	28	100.0	0.0	0.0	4.3	5.6	e
4	Siemens Clinitek	10	90.0	0.0	10.0	4.4	0.2	e

INR CCXS

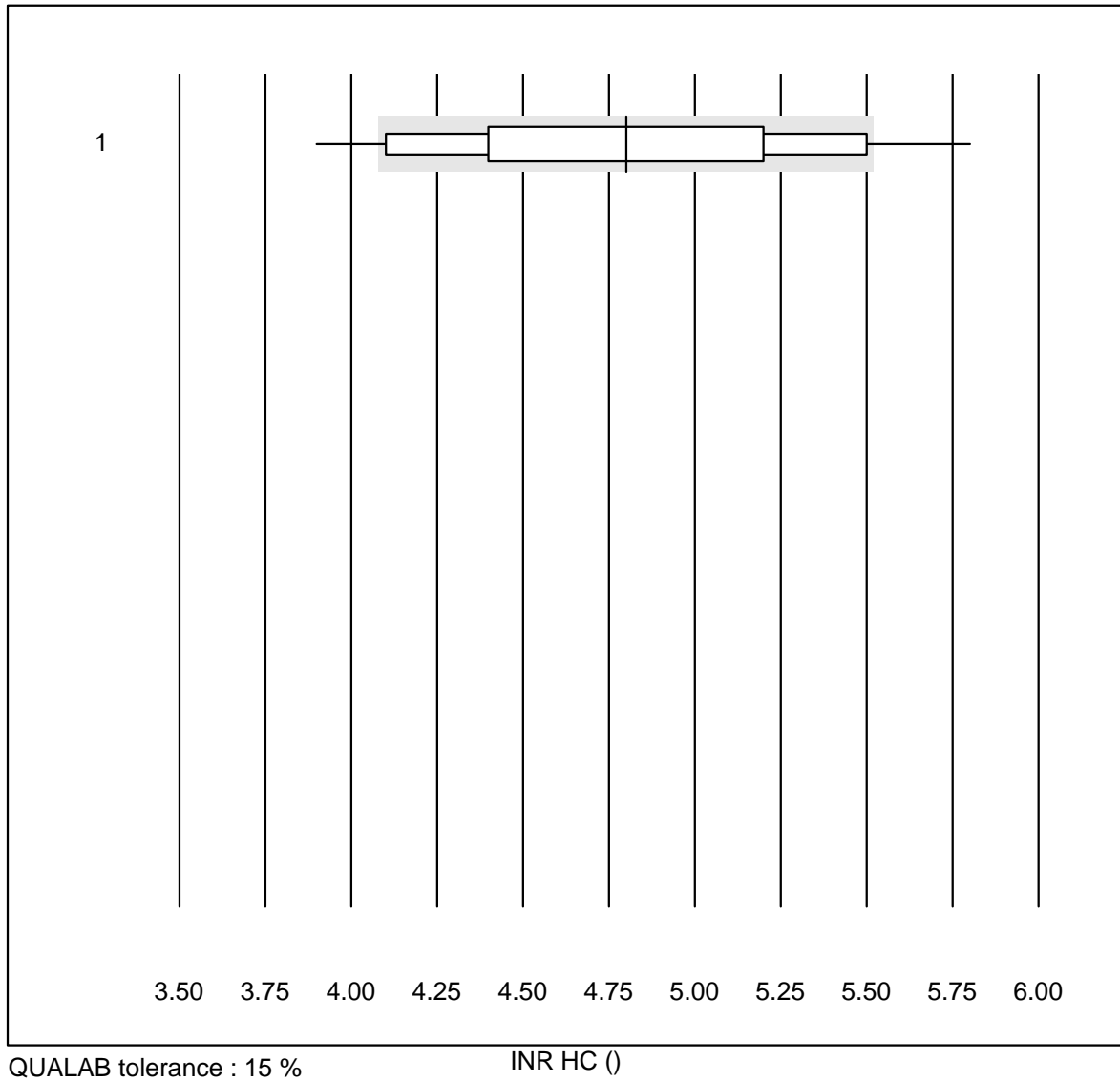


QUALAB tolerance : 15 %

INR CCXS ()

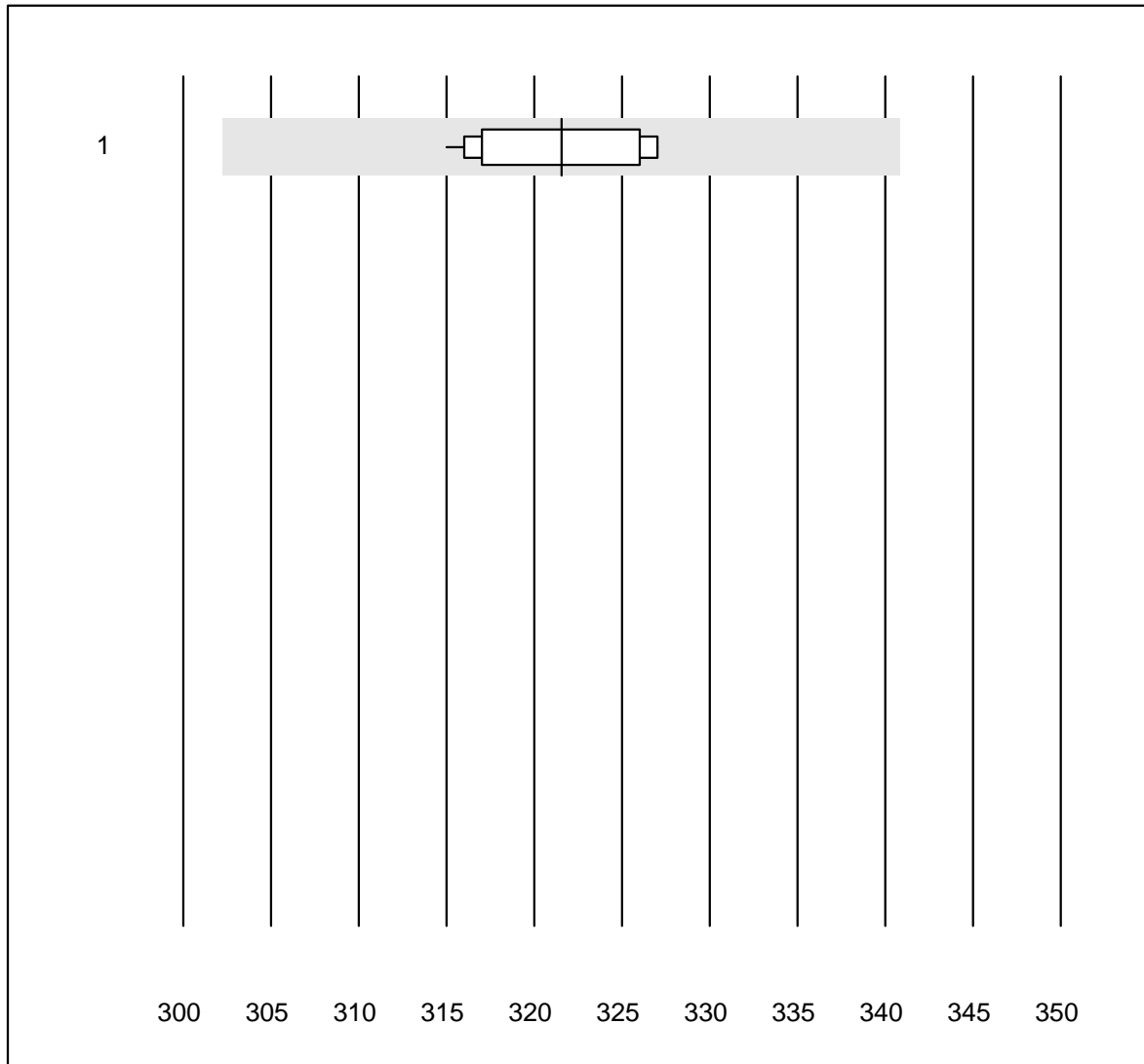
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	CoaguChek XS	2326	98.8	0.7	0.5	2.8	4.9	e

INR HC



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Hemochron j.	20	70.0	10.0	20.0	4.8	10.7	e*

Osmolality

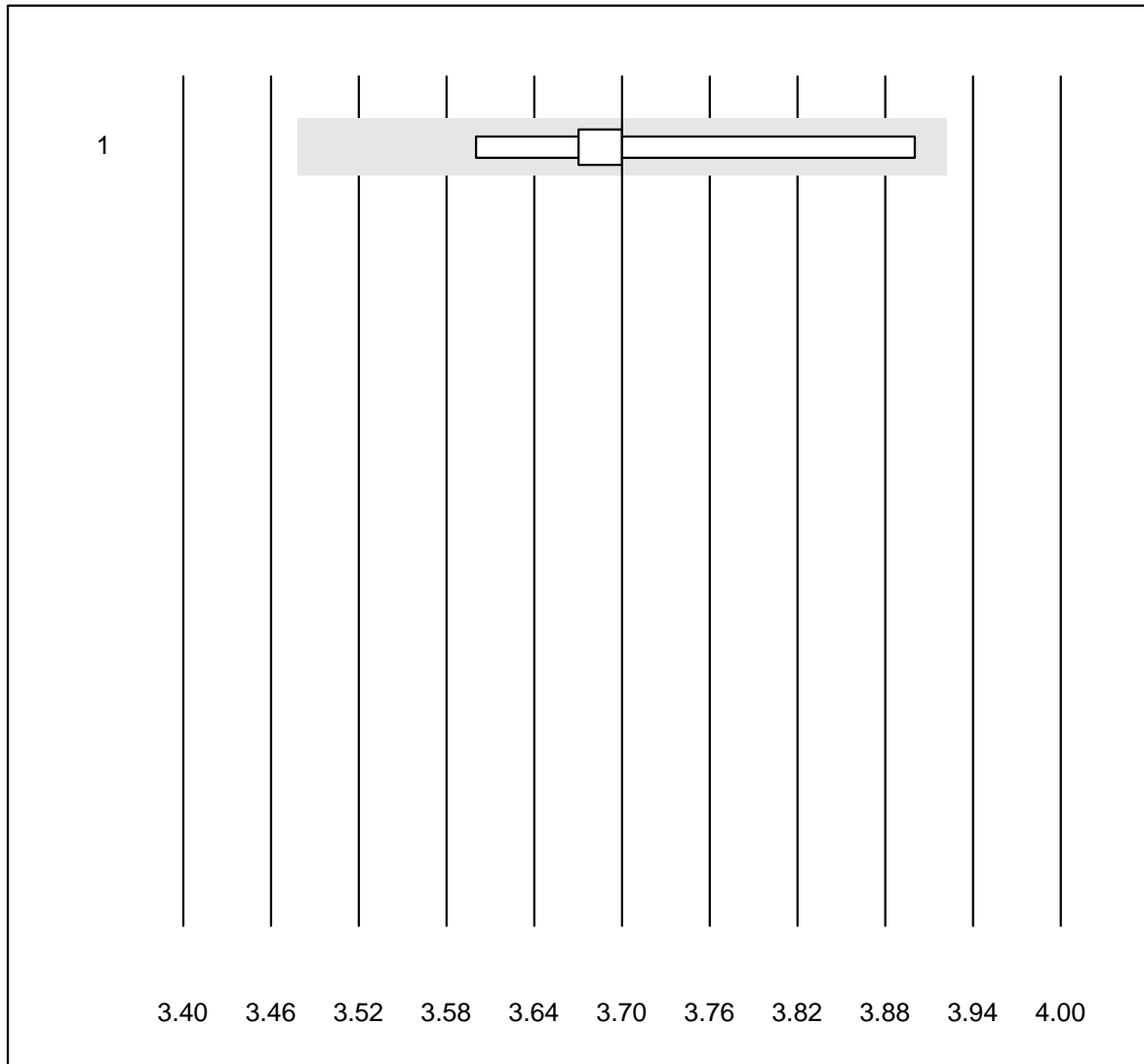


QUALAB tolerance : 6 %

Osmolality (mosm/kg)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Cryoscopy	11	100.0	0.0	0.0	322	1.4	e

Potassium - K22

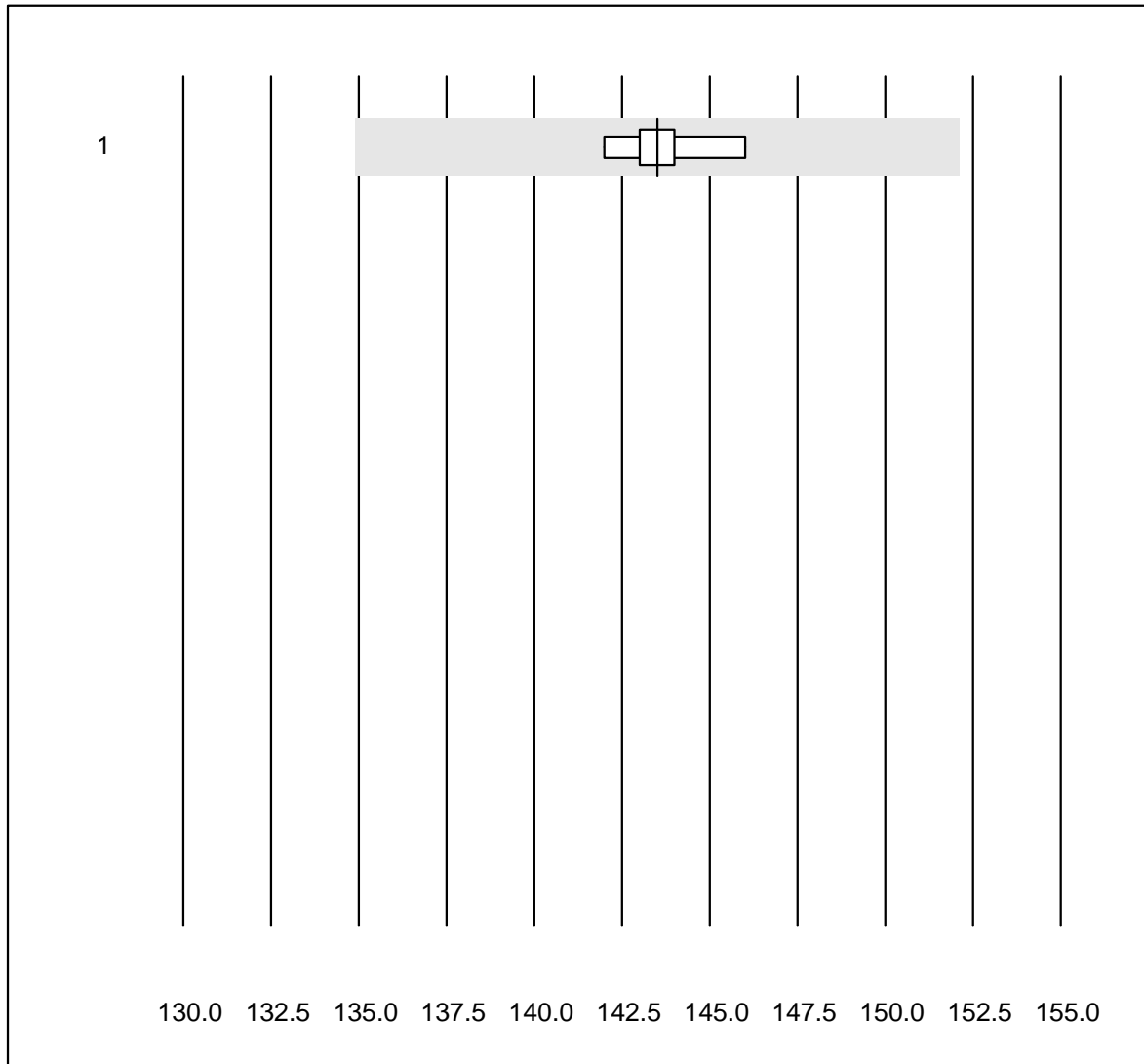


QUALAB tolerance : 6 %

Potassium - K22 (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	ISE	9	100.0	0.0	0.0	3.7	2.3	e*

Sodium - K22

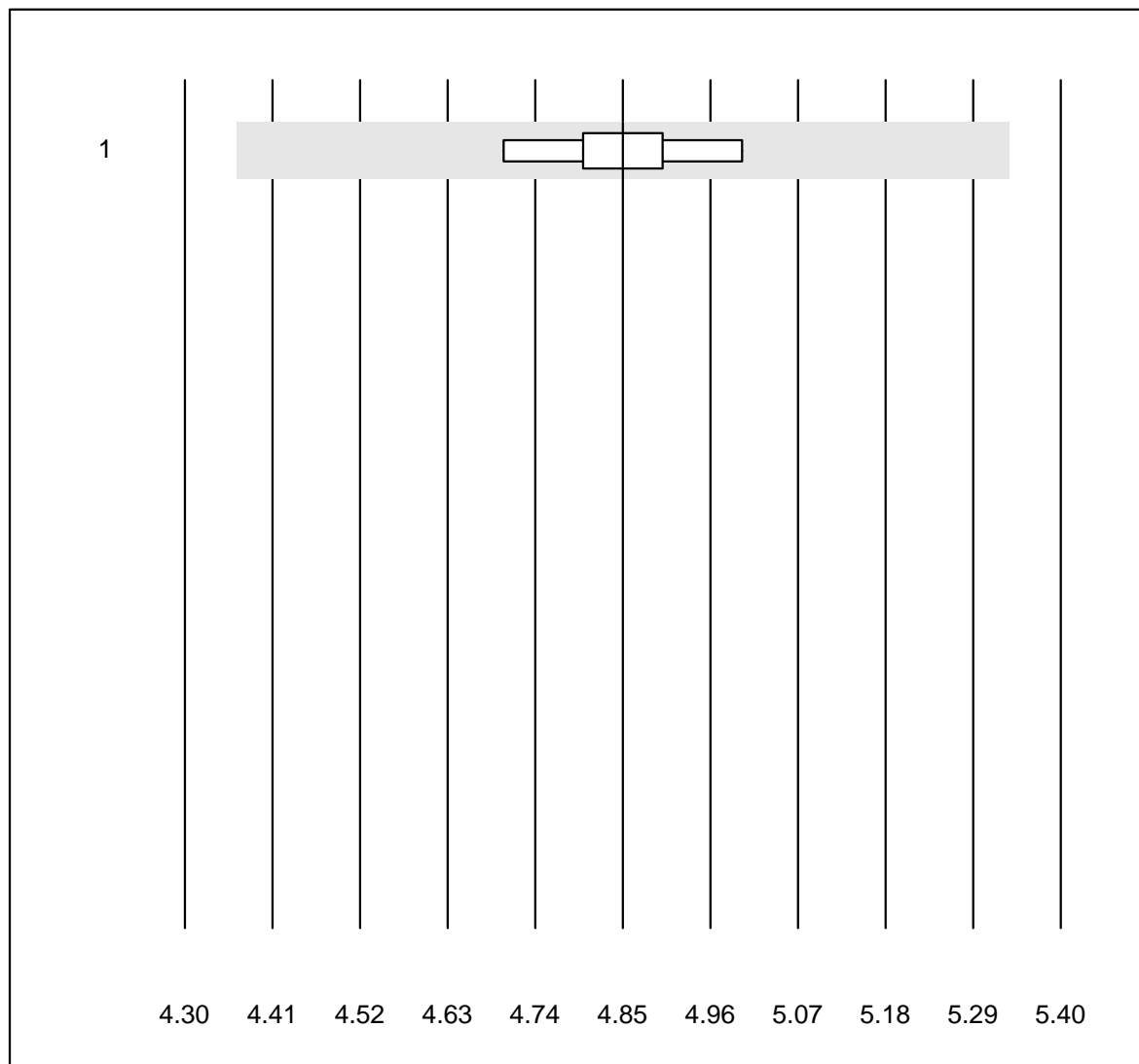


QUALAB tolerance : 6 %

Sodium - K22 (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	ISE	8	100.0	0.0	0.0	144	0.8	e

Glucose - K22

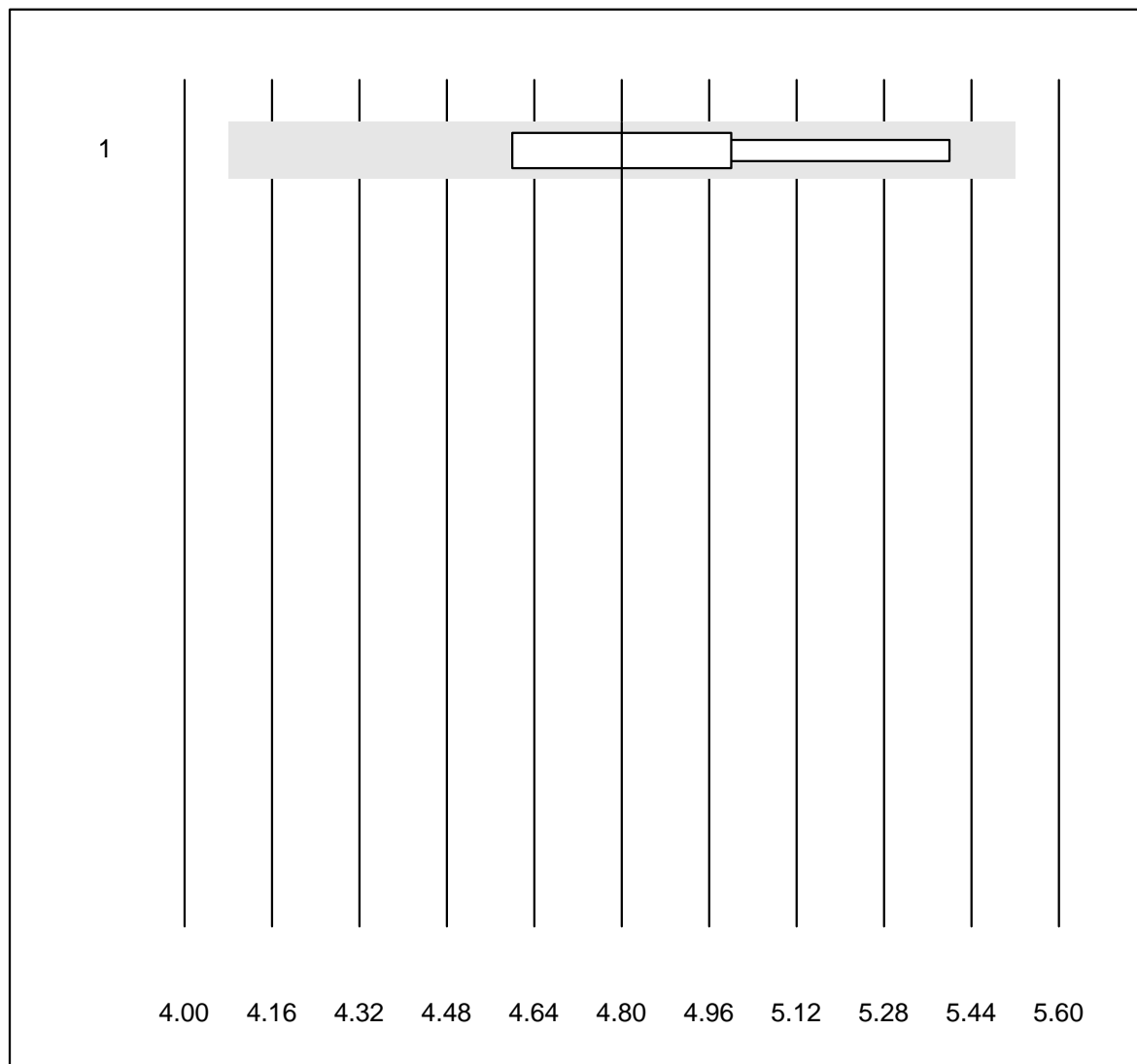


QUALAB tolerance : 10 %

Glucose - K22 (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Standard chemistry	8	100.0	0.0	0.0	4.9	1.9	e

Urea - K22

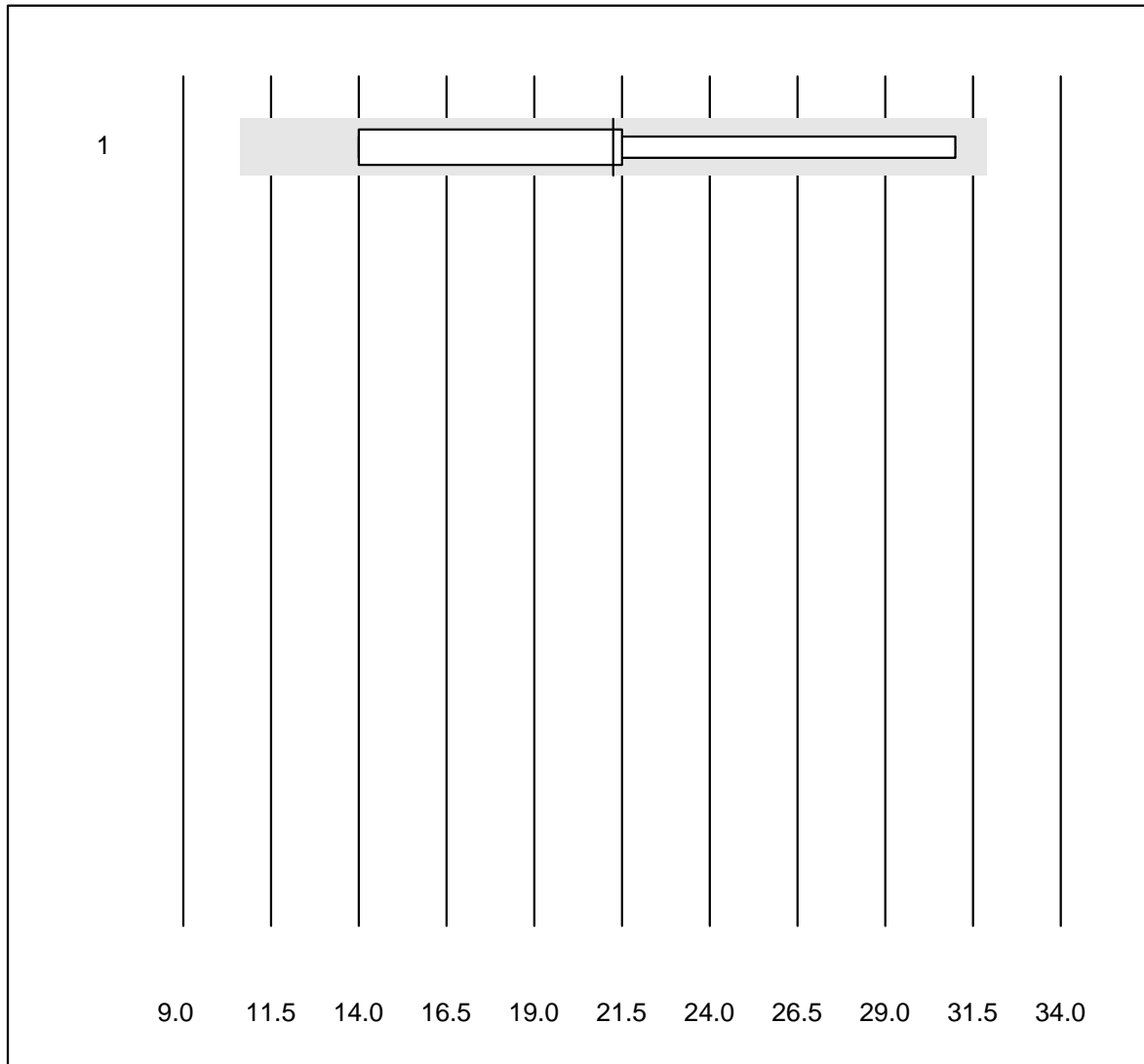


QUALAB tolerance : 15 %

Urea - K22 (mmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Standard chemistry	7	100.0	0.0	0.0	4.8	5.8	e*

Osmotic Gap

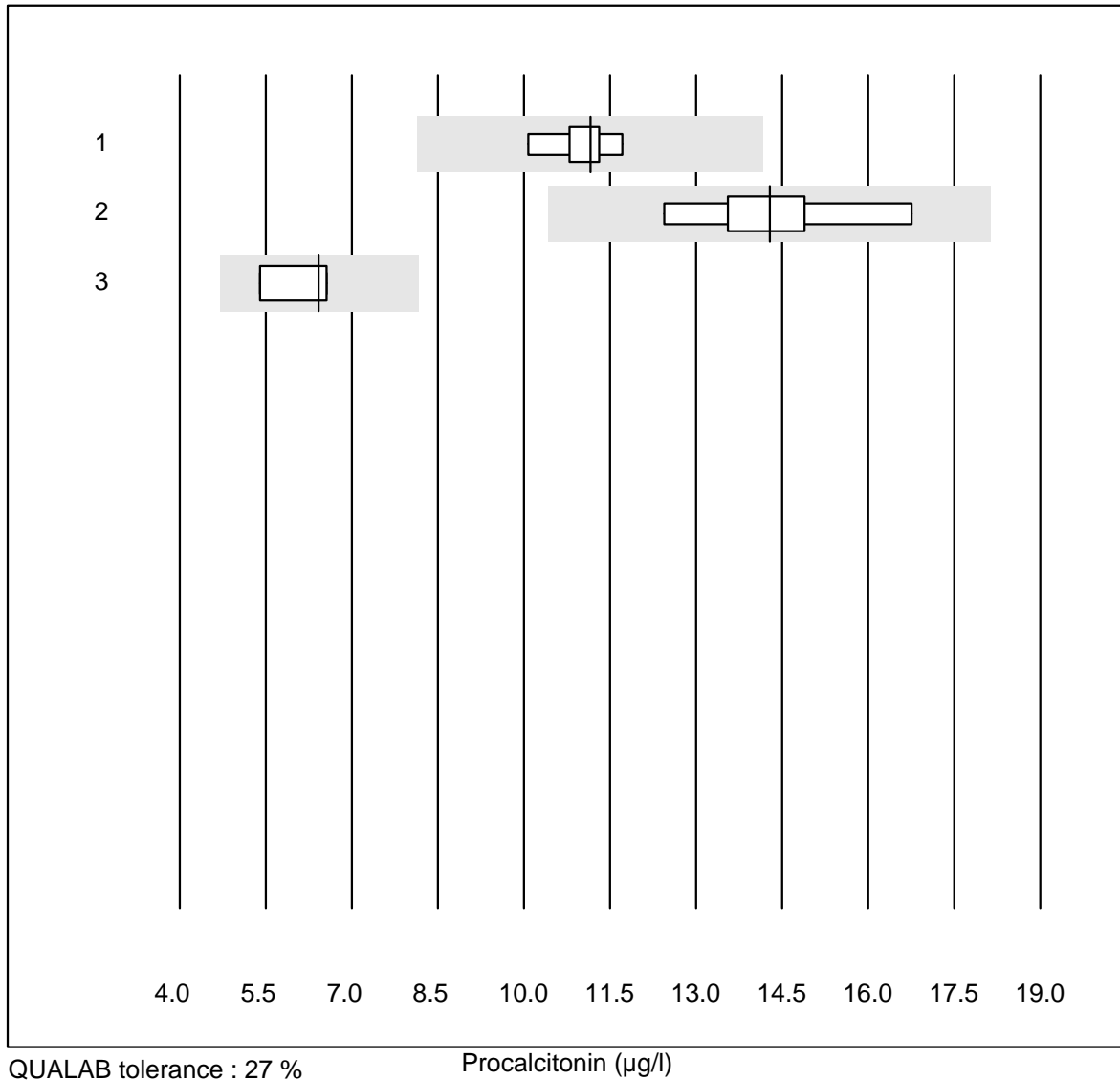


QUALAB tolerance : 50 %

Osmotic Gap (mmol/l)

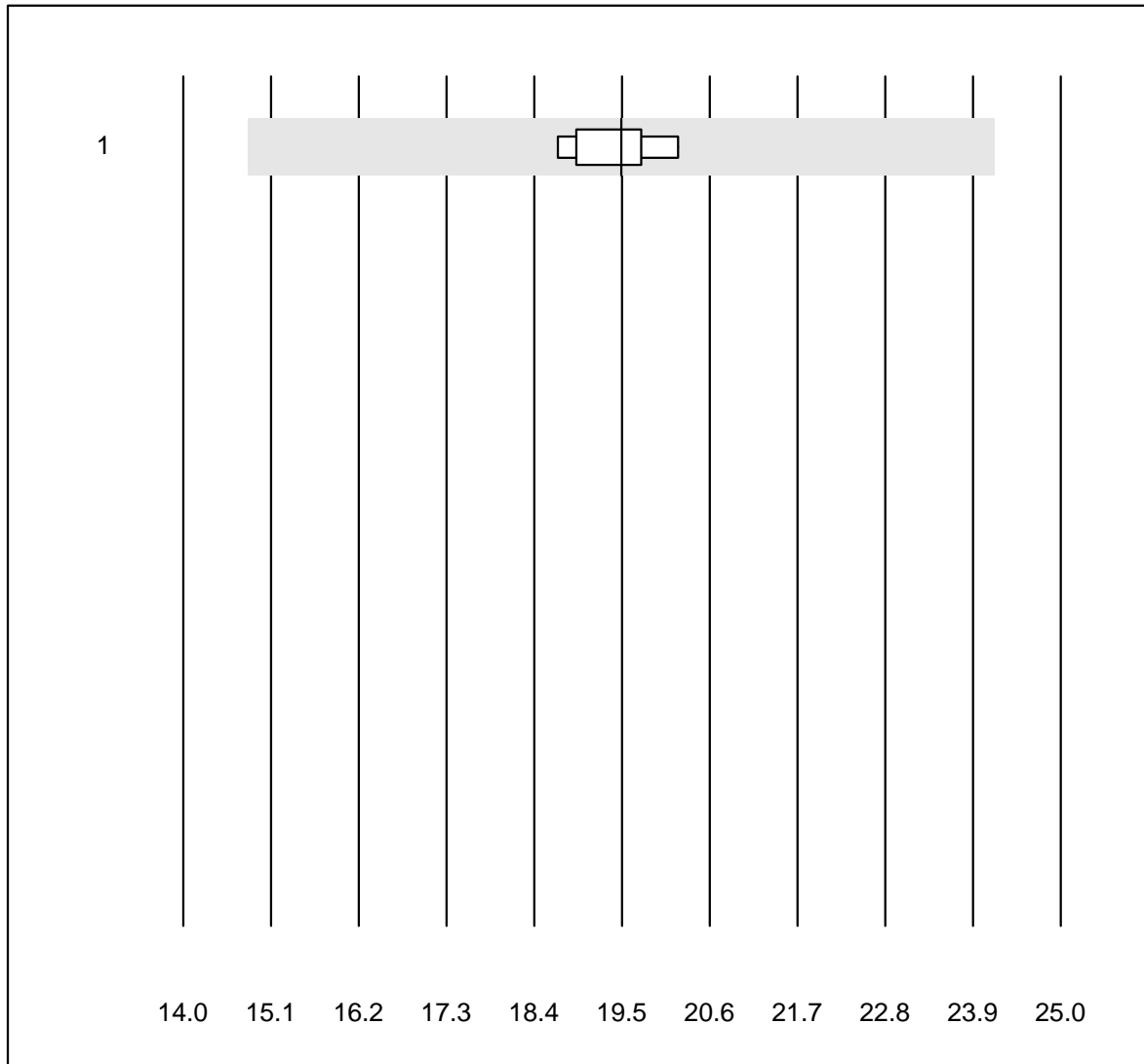
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	all Participants	4	100.0	0.0	0.0	21.3	31.9	e*

Procalcitonin



No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas	9	100.0	0.0	0.0	11.16	4.6	e
2	Mini Vidas	7	100.0	0.0	0.0	14.29	9.2	e*
3	ADVIA Centaur XP/CP	4	75.0	0.0	25.0	6.43	10.0	e*

Parathyroid hormone

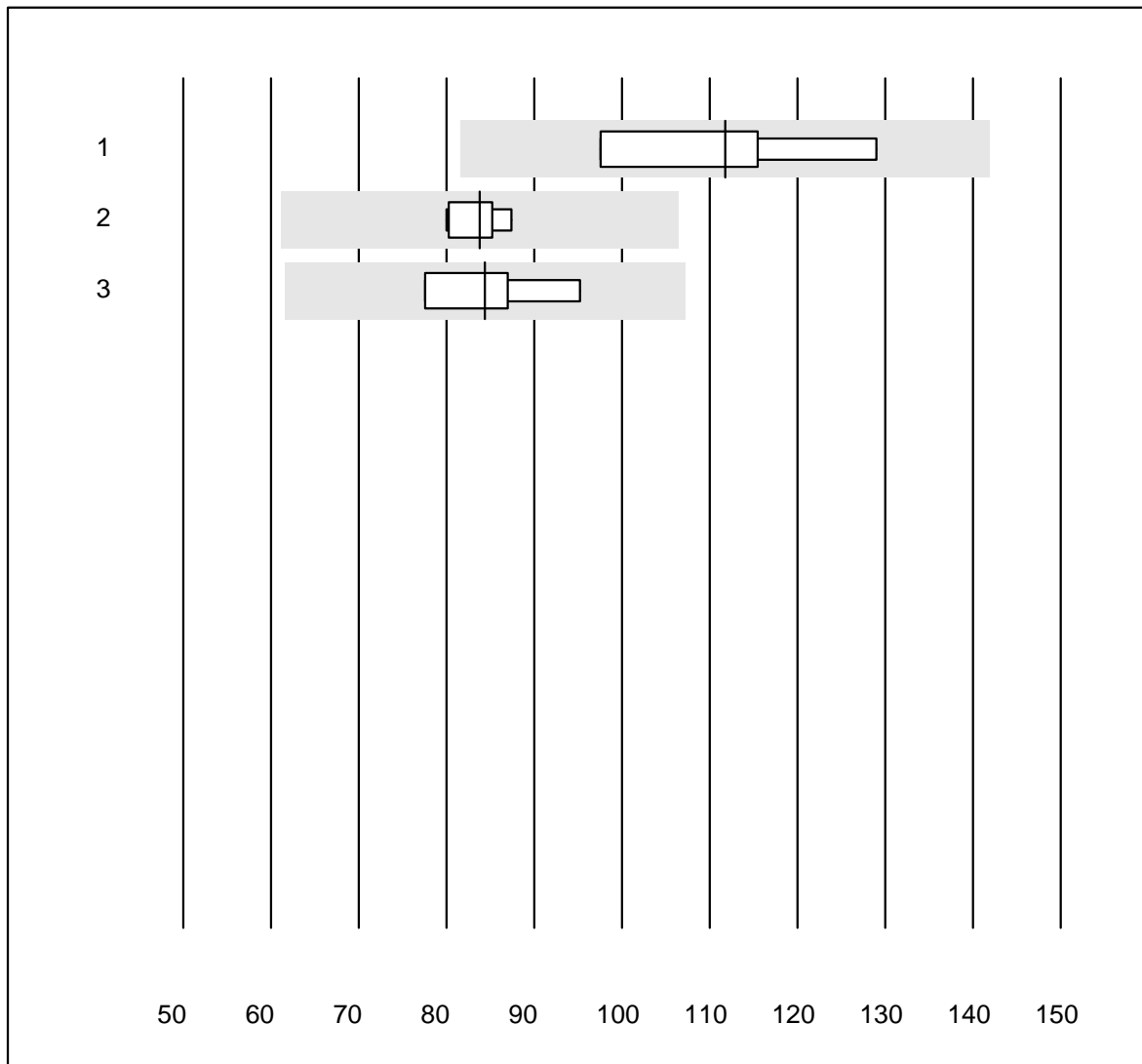


QUALAB tolerance : 24 %

Parathyroid hormone (pmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas PTH STAT	5	100.0	0.0	0.0	19.5	3.1	e

25-OH Vitamin D

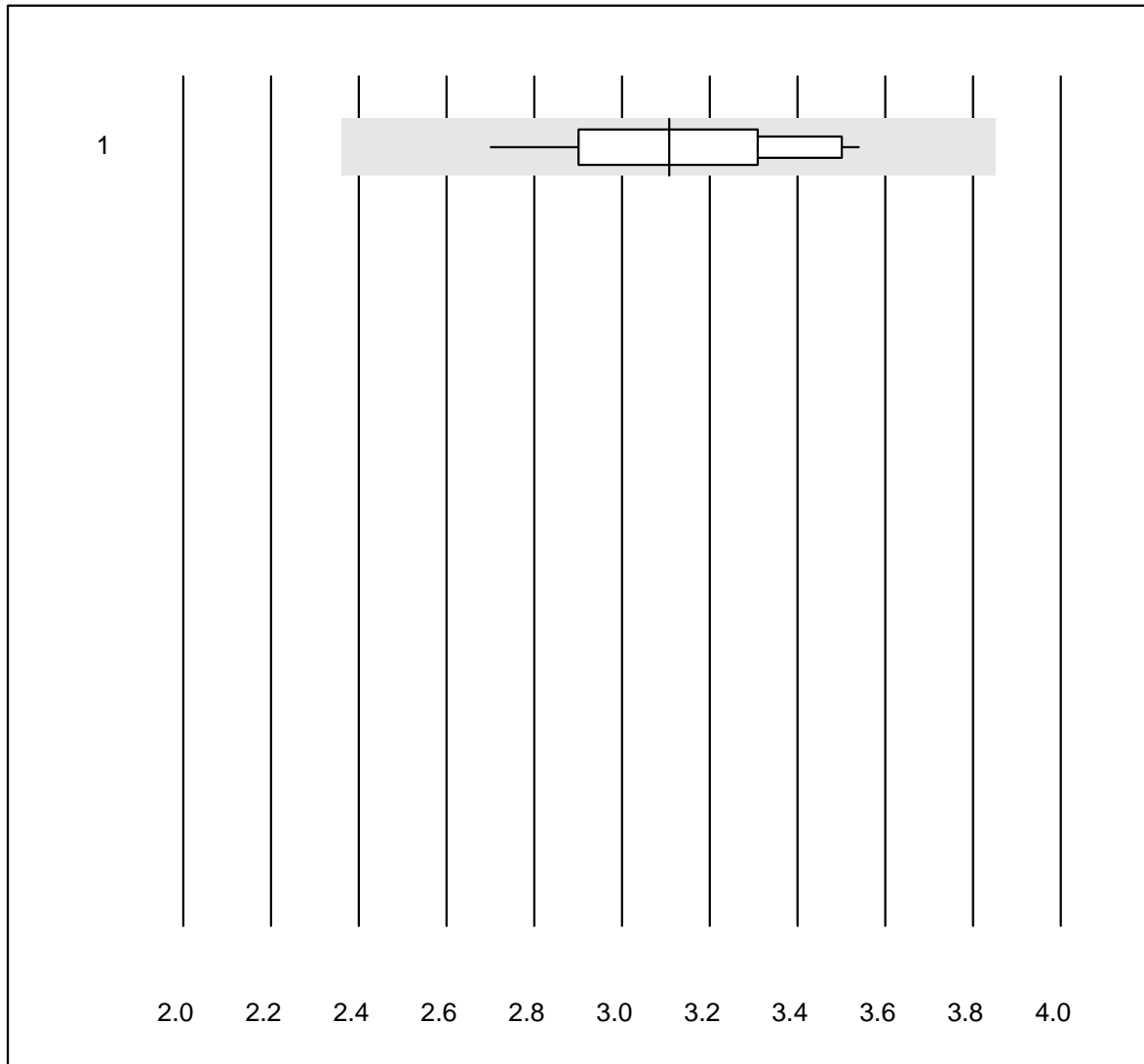


QUALAB tolerance : 27 %

25-OH Vitamin D (nmol/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Qualigen	4	100.0	0.0	0.0	111.8	11.7	e*
2	Cobas	7	100.0	0.0	0.0	83.7	3.4	e
3	Architect	4	100.0	0.0	0.0	84.4	8.9	e*

Digoxin

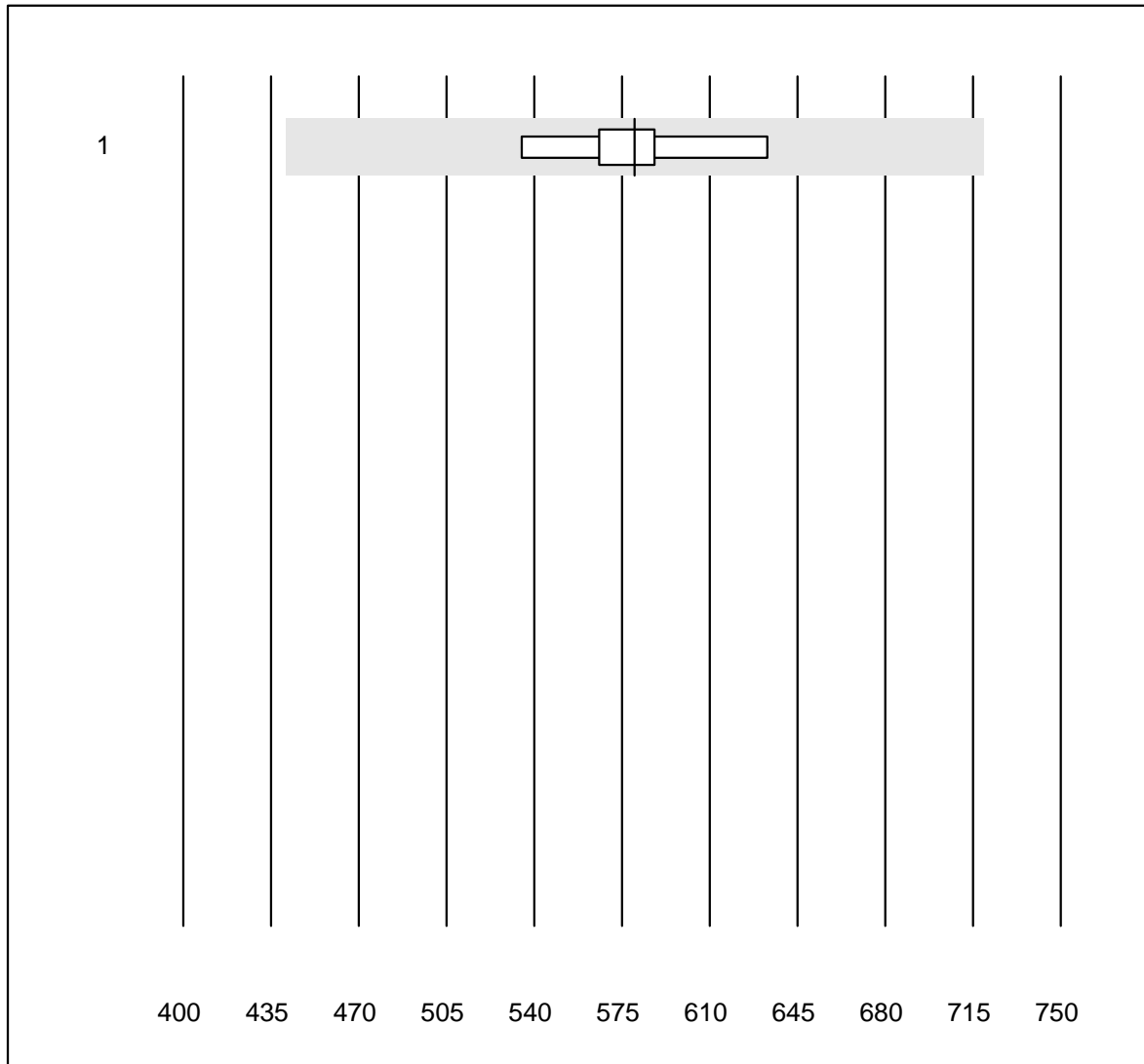


QUALAB tolerance : 24 %

Digoxin (nmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Other methods	11	100.0	0.0	0.0	3.11	8.7	e

Valproat

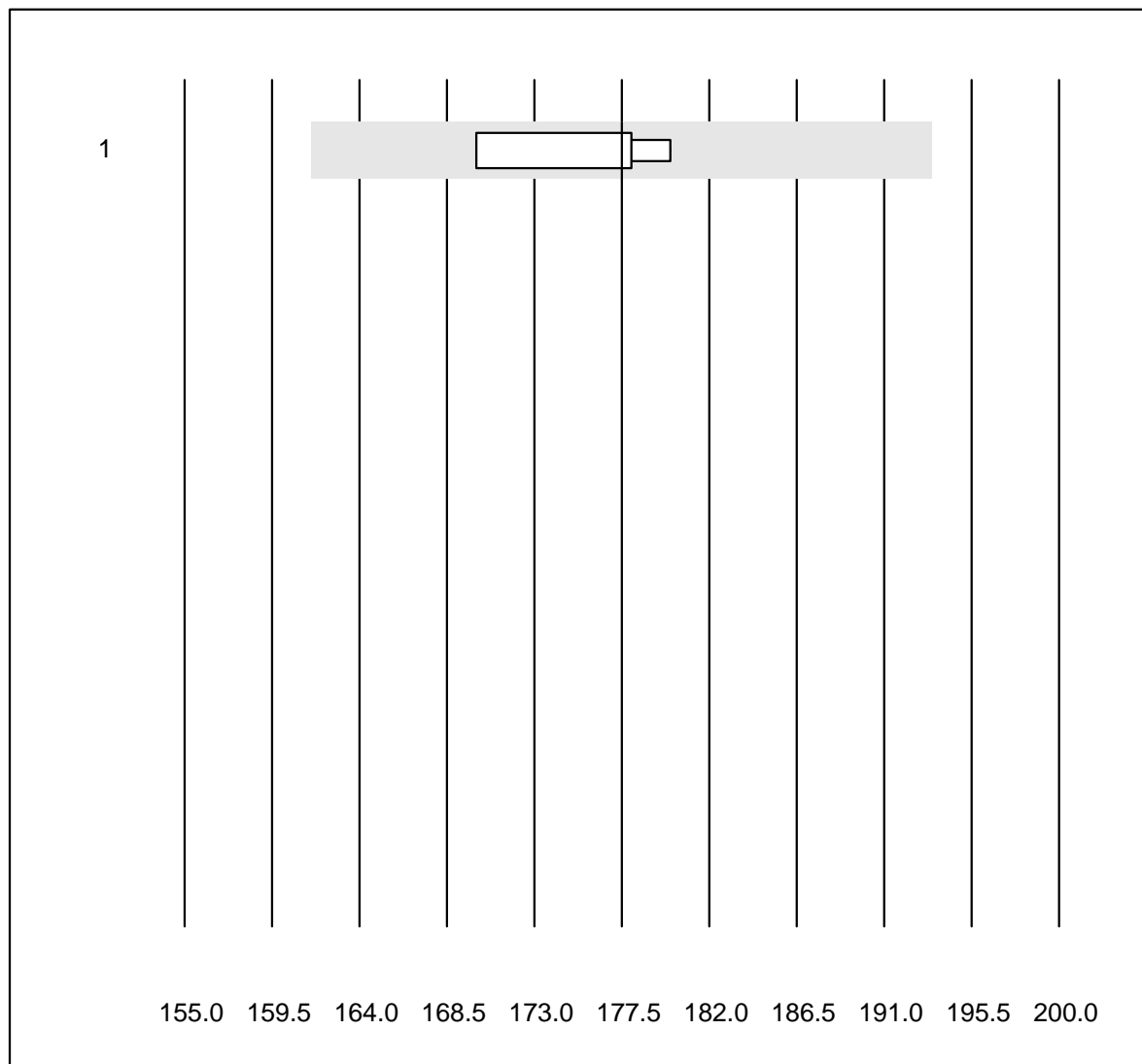


QUALAB tolerance : 24 %

Valproat (µmol/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	all Participants	5	100.0	0.0	0.0	580.0	6.1	e

Hemoglobin BG

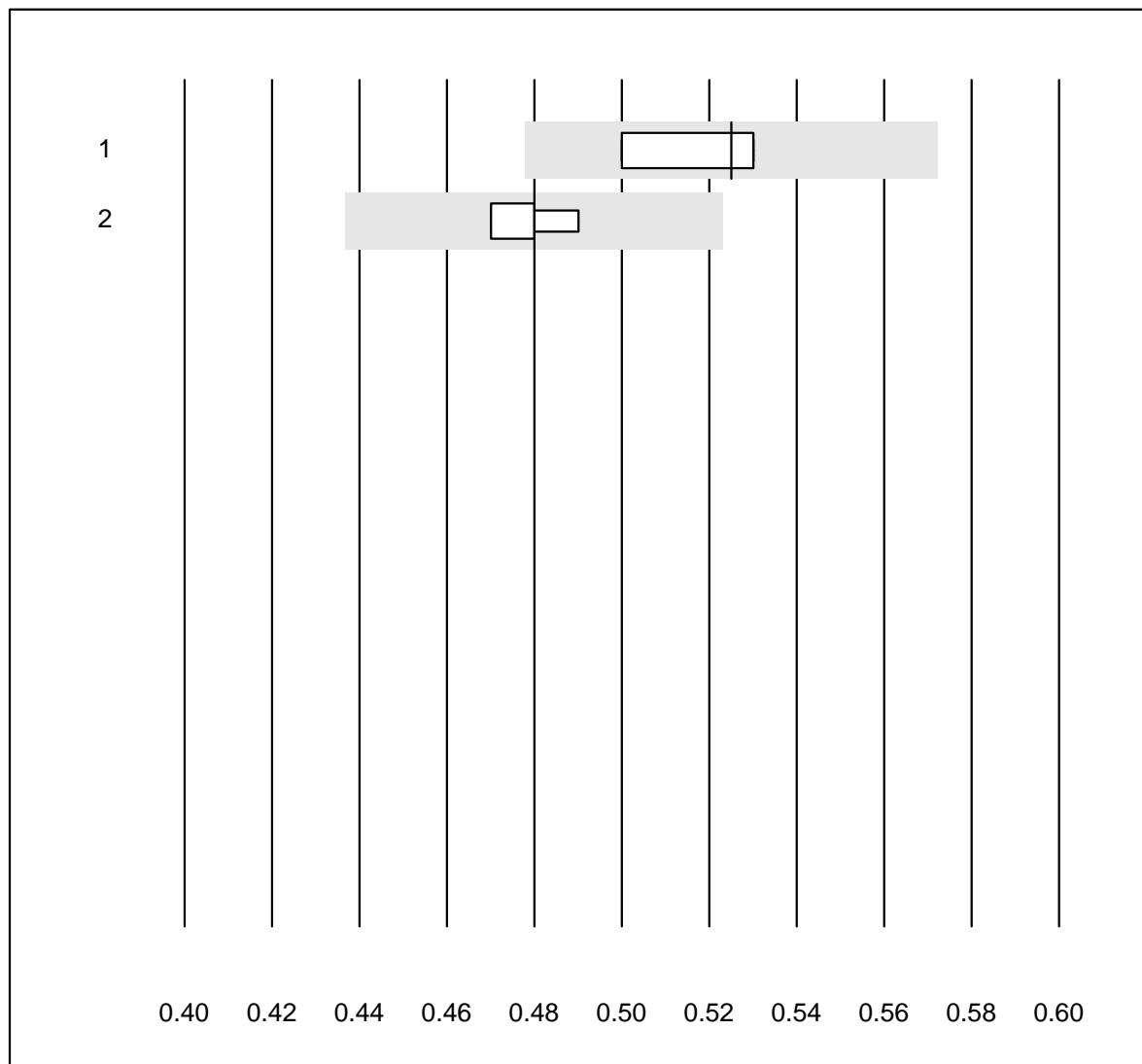


QUALAB tolerance : 9 %

Hemoglobin BG (g/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	iStat	4	100.0	0.0	0.0	177.5	2.5	e*

Hematocrit

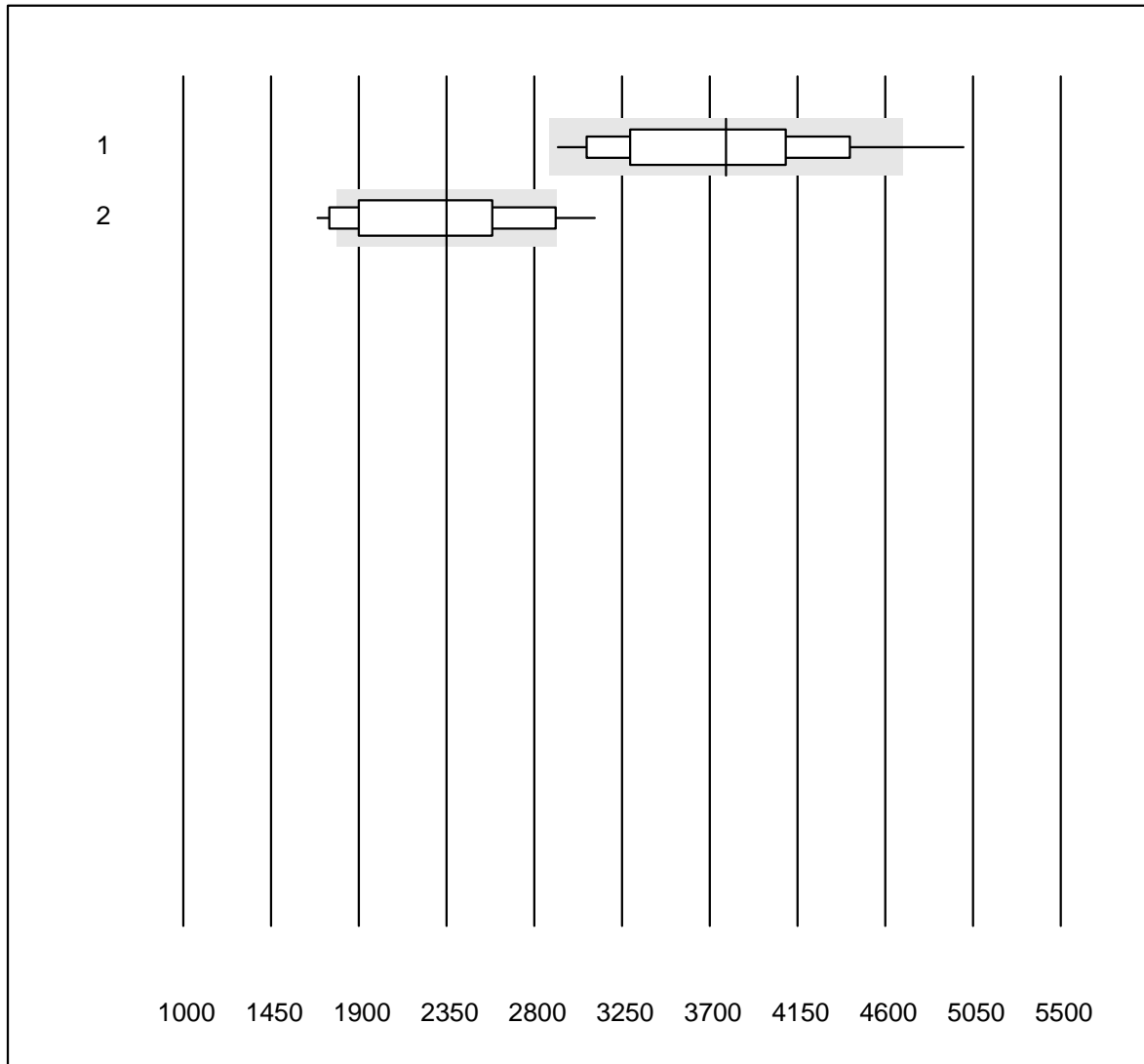


QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	iStat	4	100.0	0.0	0.0	0.53	2.7	e*
2	EPOC	4	100.0	0.0	0.0	0.48	1.7	e

Troponin Triage

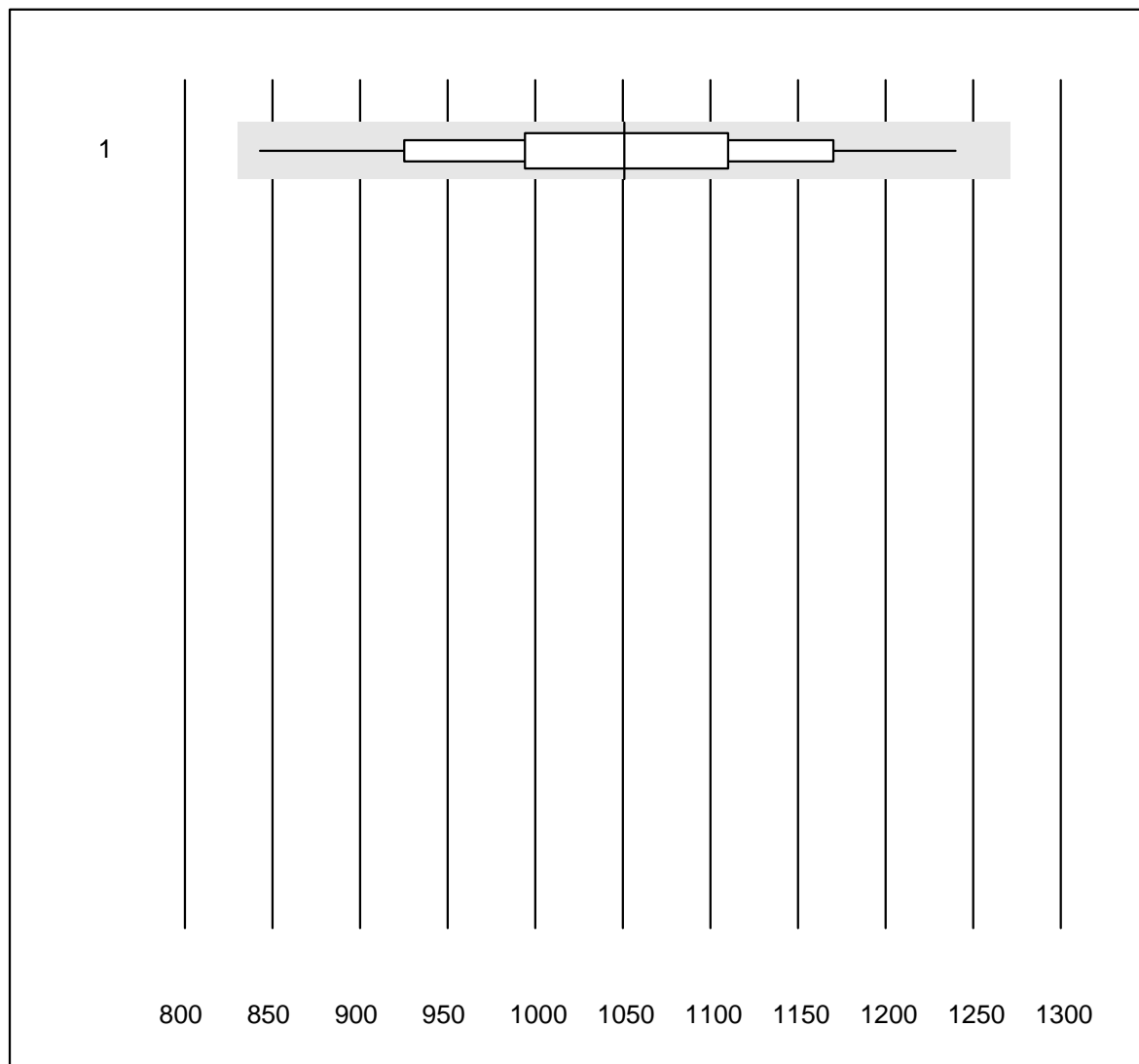


QUALAB tolerance : 24 %

Troponin Triage (ng/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Triage Next Gen	19	89.4	5.3	5.3	3782.78	14.4	e*
2	Triage SOB/Cardiac	21	71.4	14.3	14.3	2350.76	18.2	e*

D-dimer Triage

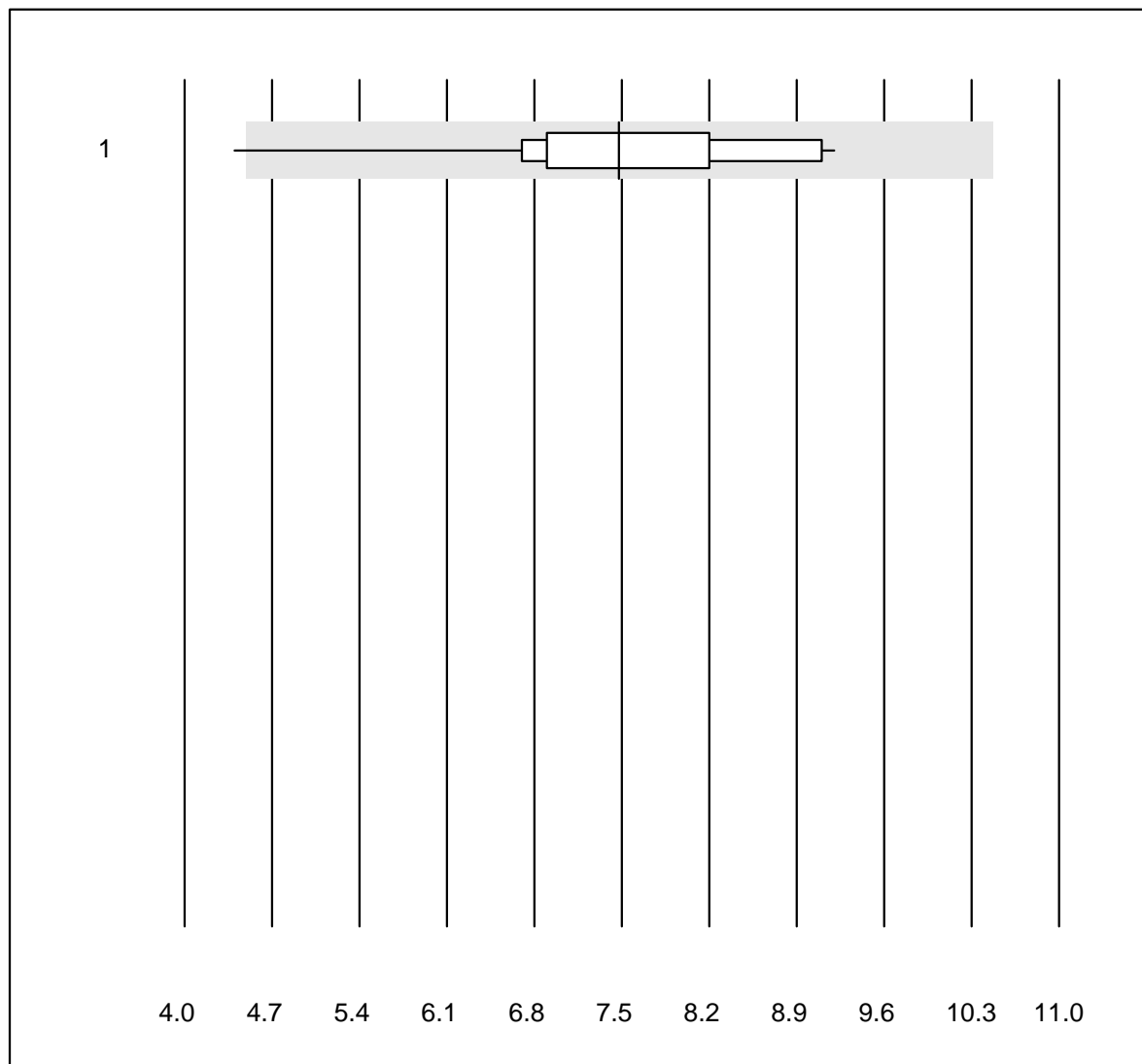


QUALAB tolerance : 21 %

D-dimer Triage (ng/ml)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Triage Meter	41	95.1	0.0	4.9	1050.69	8.5	e

CK-MB Triage

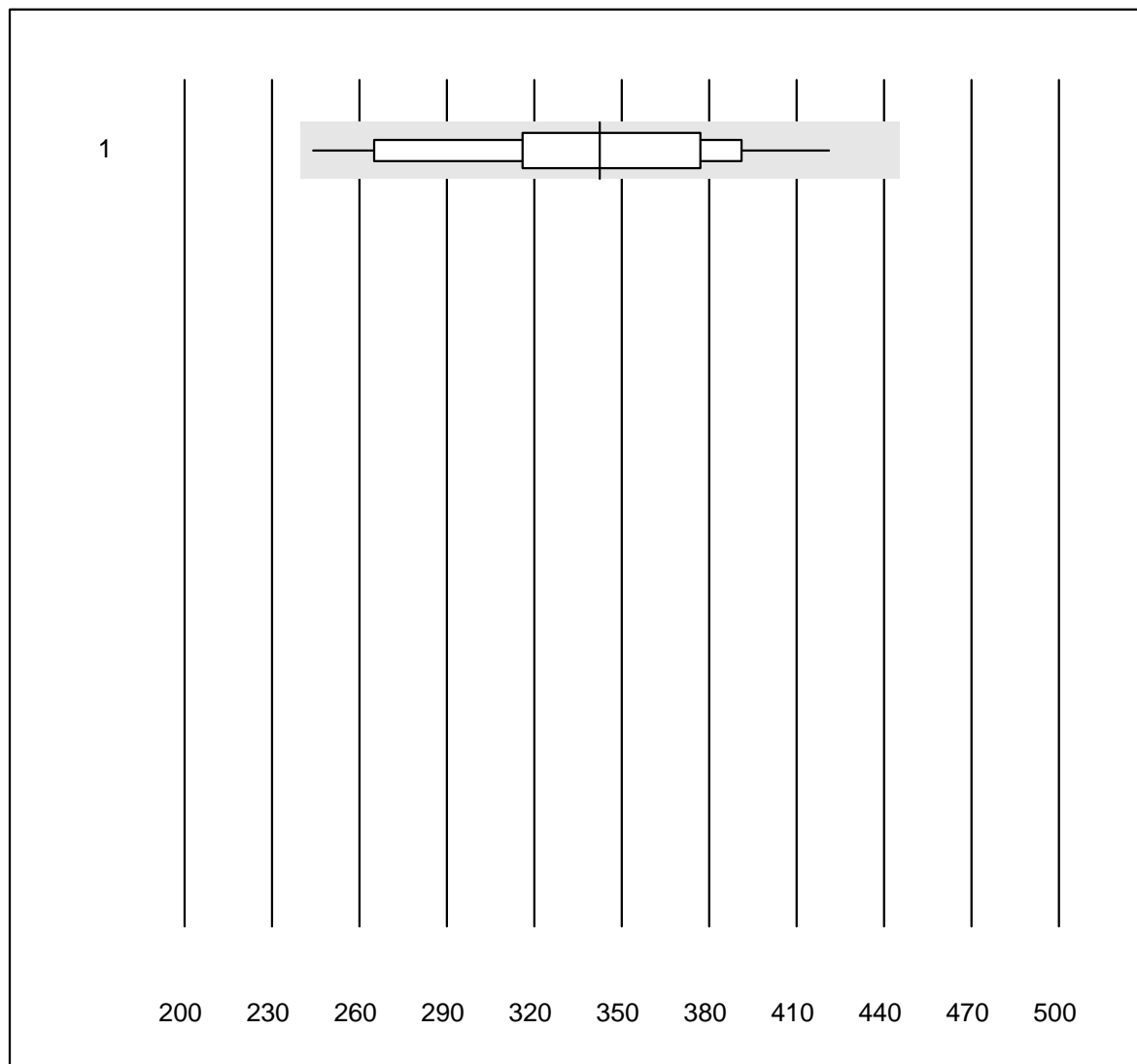


QUALAB tolerance : 40 %

CK-MB Triage (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Type
1	Triage Meter	20	90.0	5.0	5.0	7.5	14.6	e

Myoglobin Triage

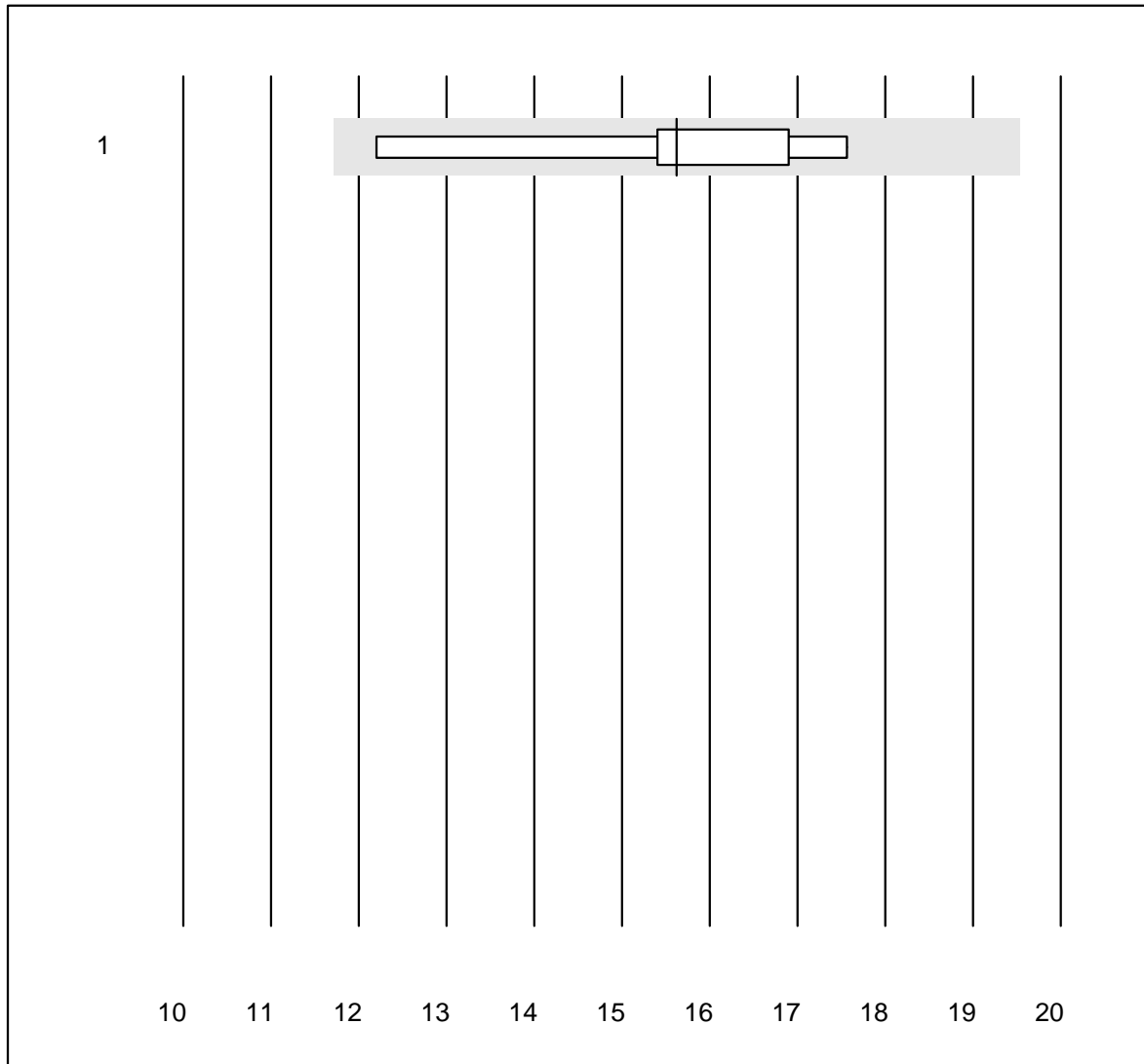


QUALAB tolerance : 30 %

Myoglobin Triage (µg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Triage Meter	18	94.4	0.0	5.6	342.5	14.1	e

Ethanol

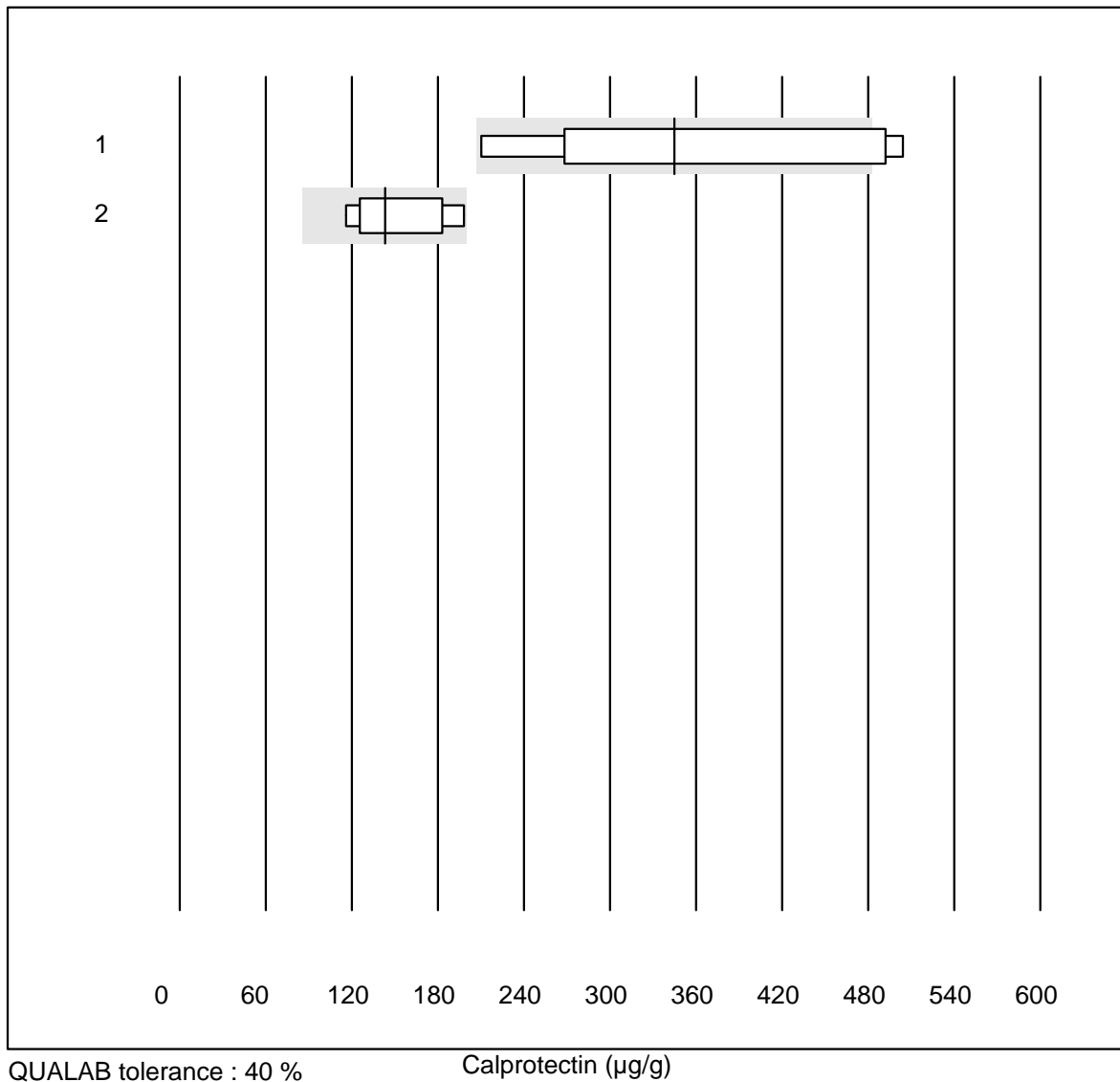


QUALAB tolerance : 25 %

Ethanol (mmol/l)

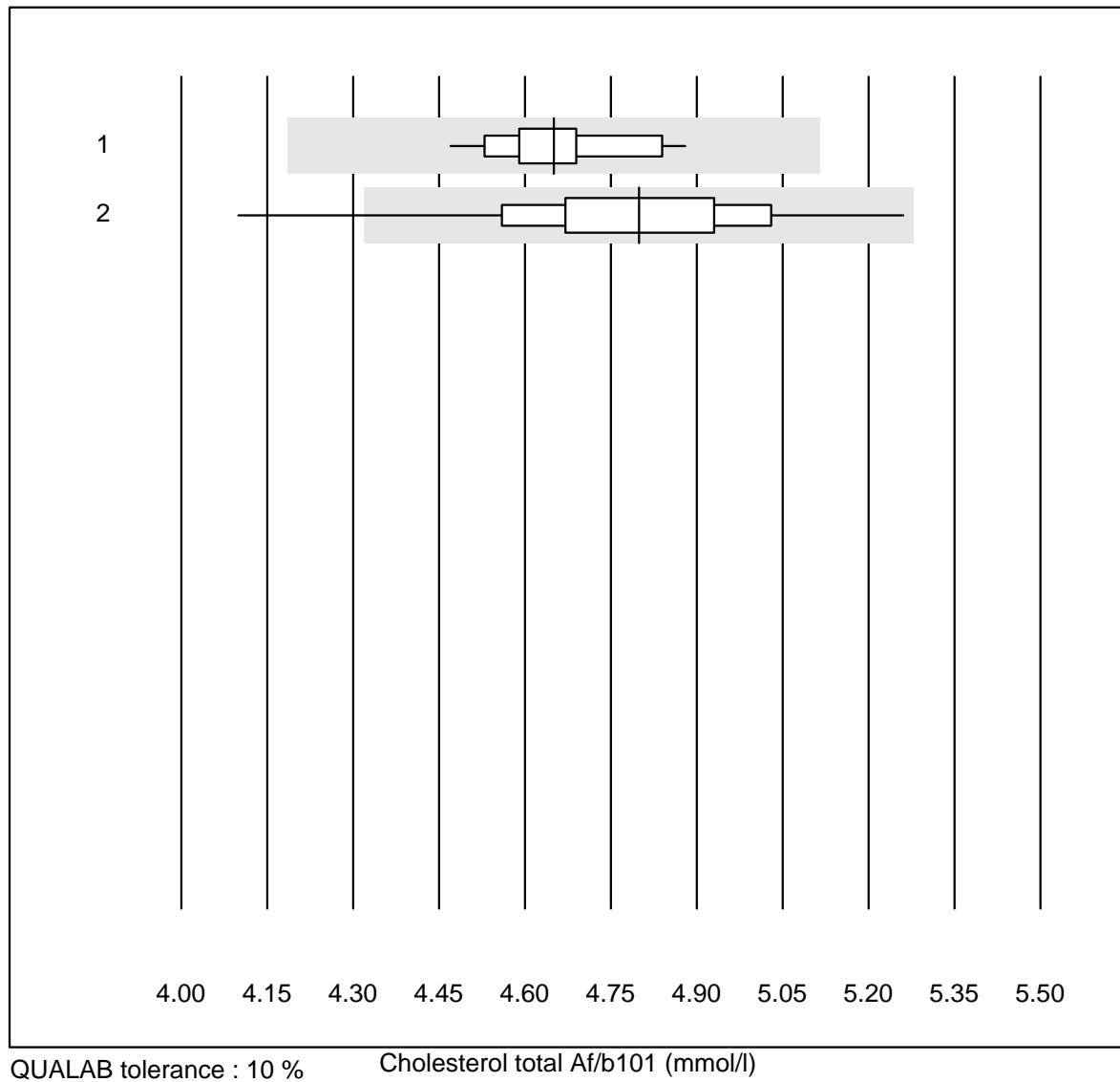
No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 all Participants	5	100.0	0.0	0.0	15.6	13.3	e*

Calprotectin



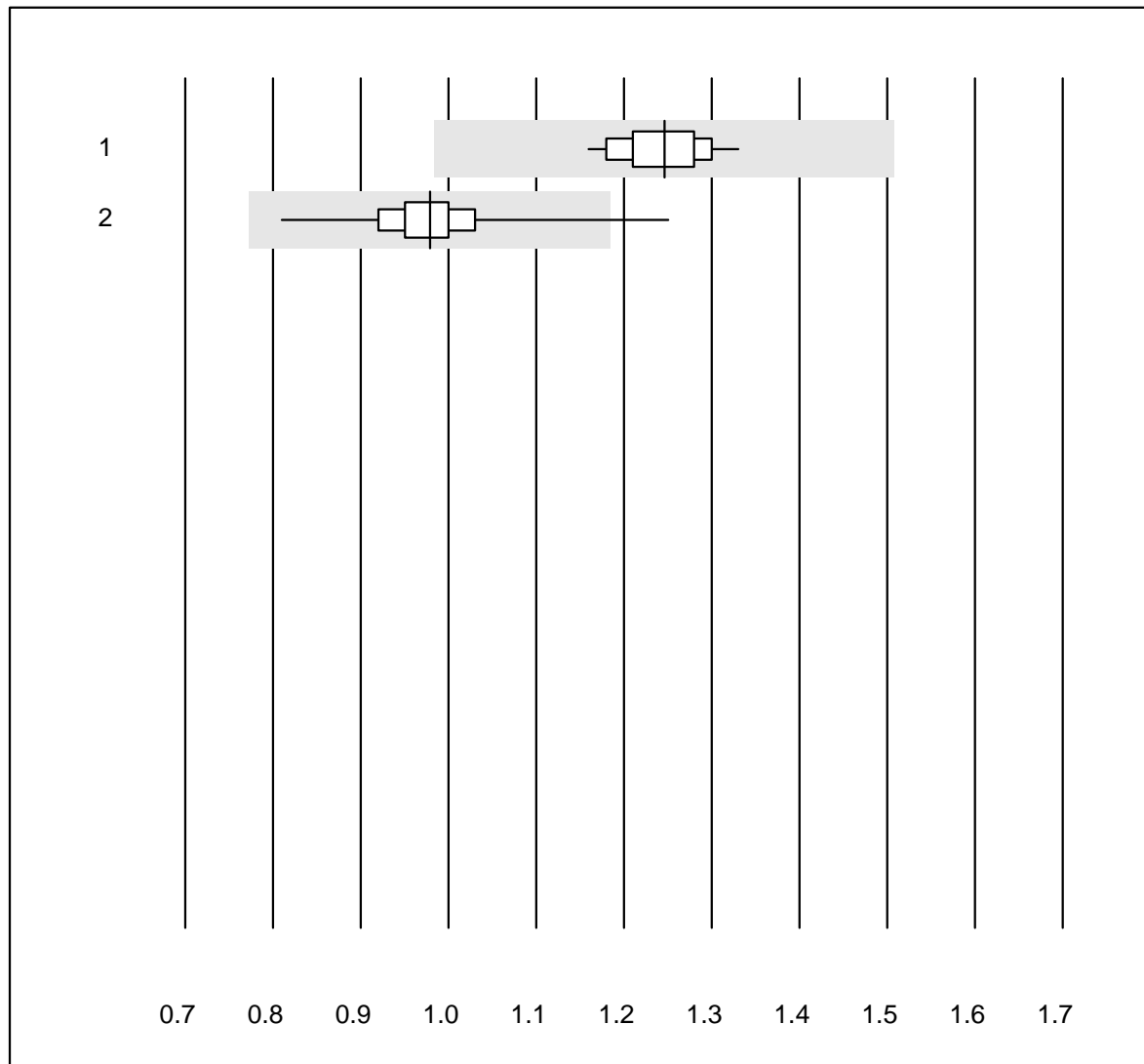
No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Zusatzprobe	7	71.4	28.6	0.0	345	31.9	a
2 Bühlmann	7	100.0	0.0	0.0	143	20.2	e*

Cholesterol total Af/b101



No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b101	34	100.0	0.0	0.0	4.65	2.2	e
2	Afinion	248	99.2	0.8	0.0	4.80	3.9	e

Cholesterol HDL Af/b101

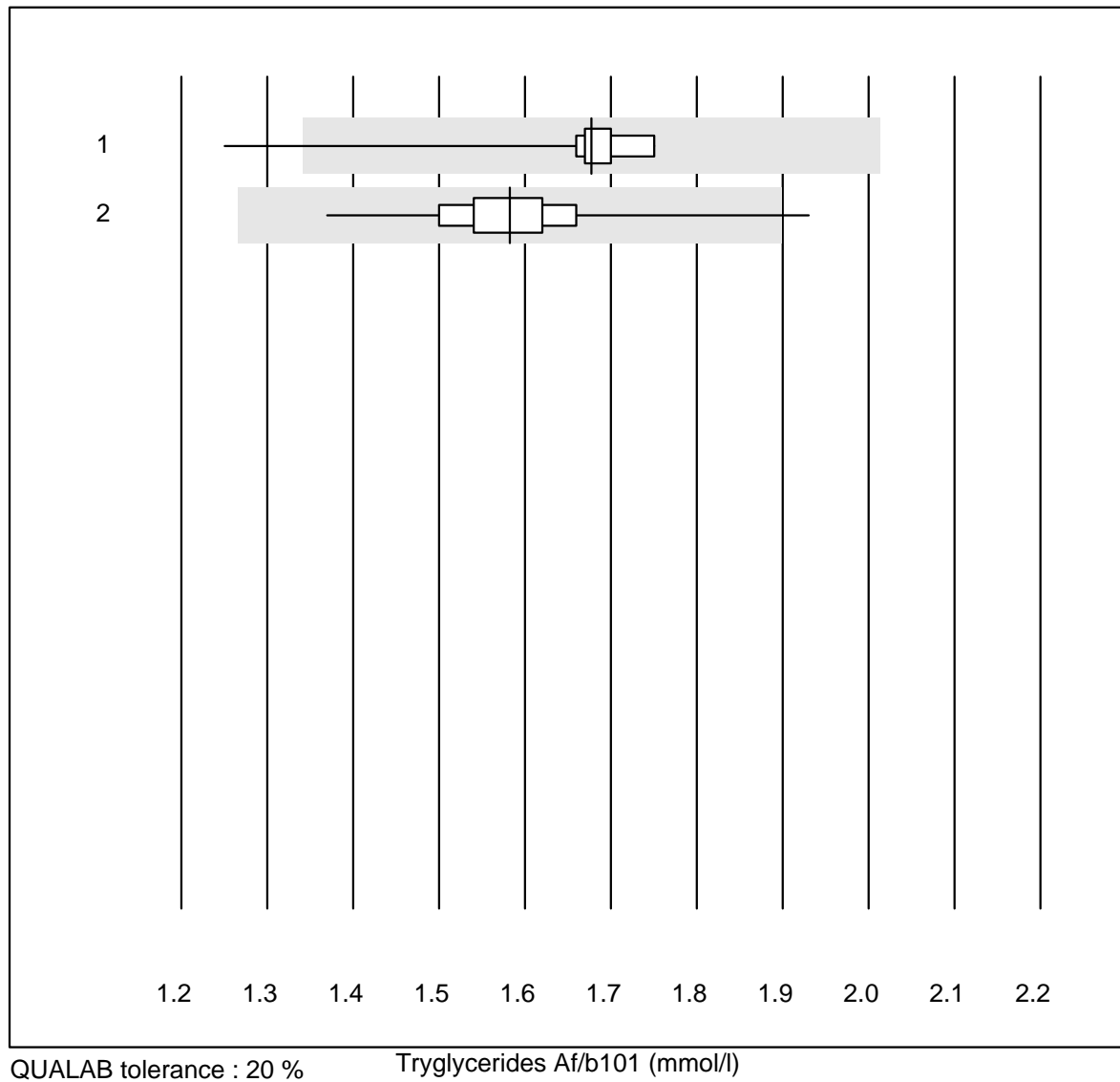


QUALAB tolerance : 21 %

Cholesterol HDL Af/b101 (mmol/l)

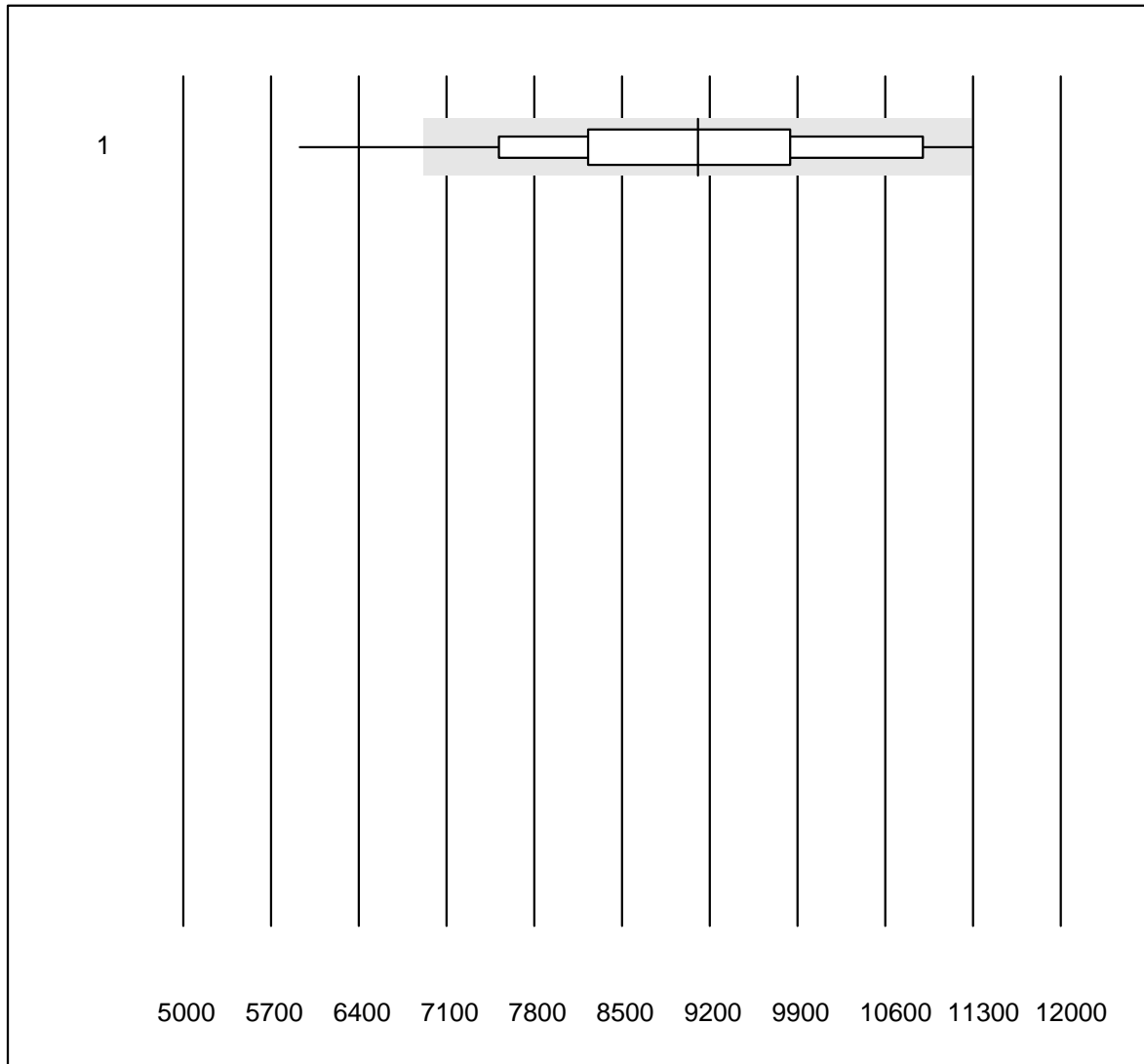
No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Cobas b101	34	94.1	0.0	5.9	1.25	3.7	e
2	Afinion	247	95.2	0.8	4.0	0.98	5.0	e

Tryglycerides Af/b101



No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Cobas b101	34	97.1	2.9	0.0	1.68	4.8	e
2 Afinion	248	99.6	0.4	0.0	1.58	4.1	e

Troponin I S

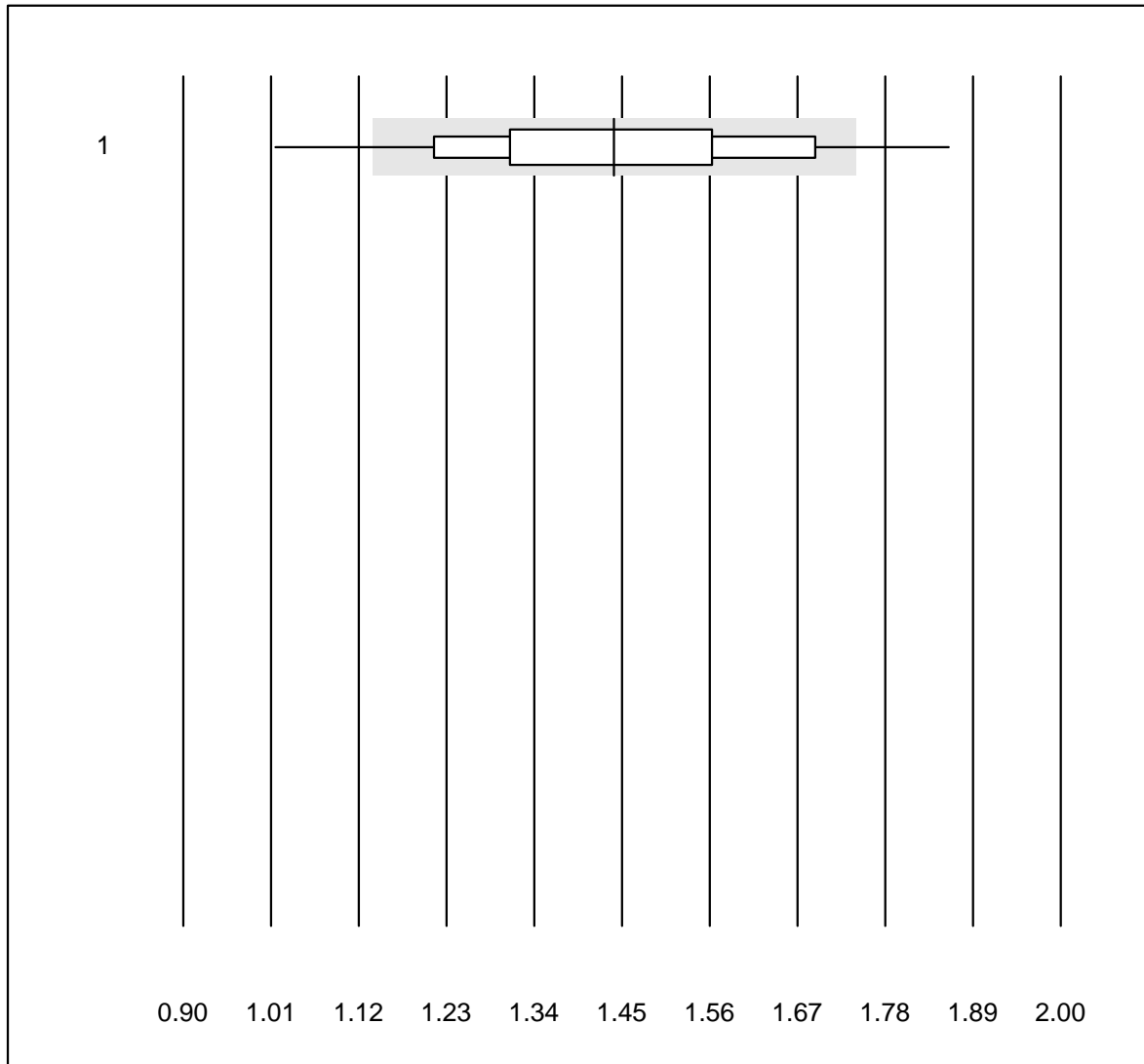


QUALAB tolerance : 24 %

Troponin I S (ng/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Samsung LABGEO IB10	73	84.9	5.5	9.6	9105.00	13.6	e

D-dimer qn S

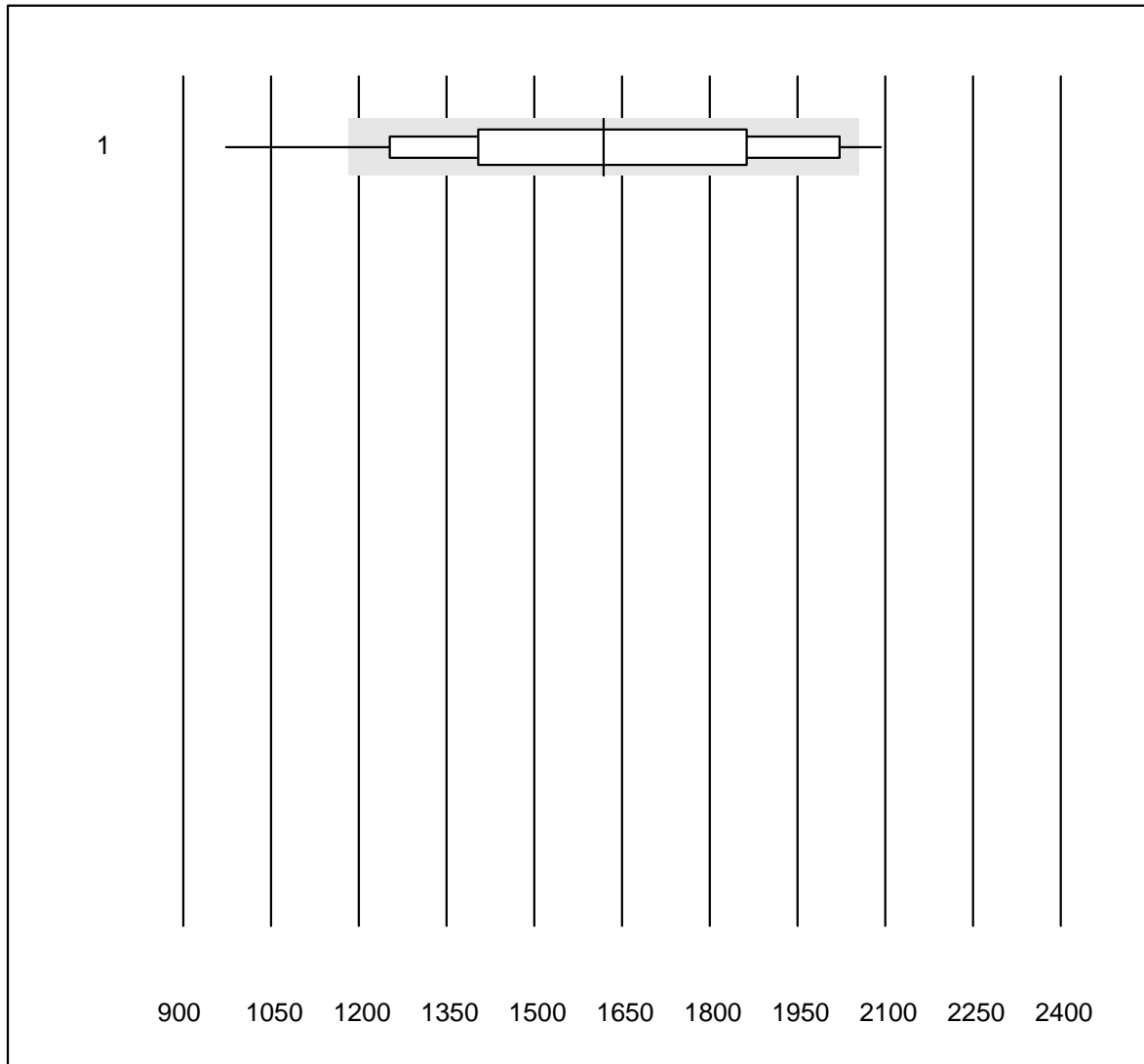


QUALAB tolerance : 21 %

D-dimer qn S (mg/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Samsung LABGEO IB10	90	87.8	10.0	2.2	1.44	12.8	e

NT-pro BNP S

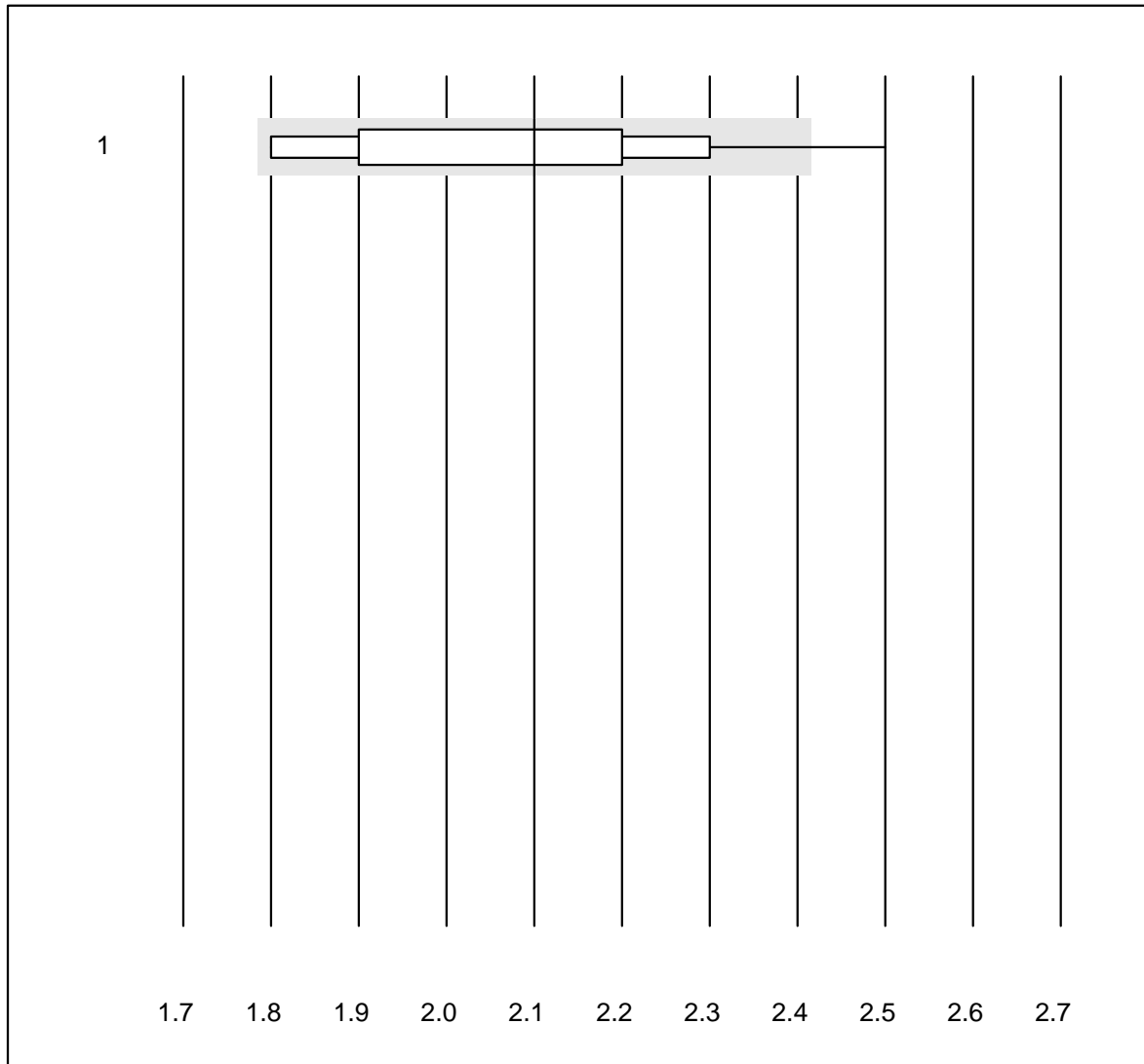


QUALAB tolerance : 27 %

NT-pro BNP S (ng/l)

No.	Method	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Samsung LABGEO IB10	57	84.2	8.8	7.0	1618.2	17.8	e

INR MI

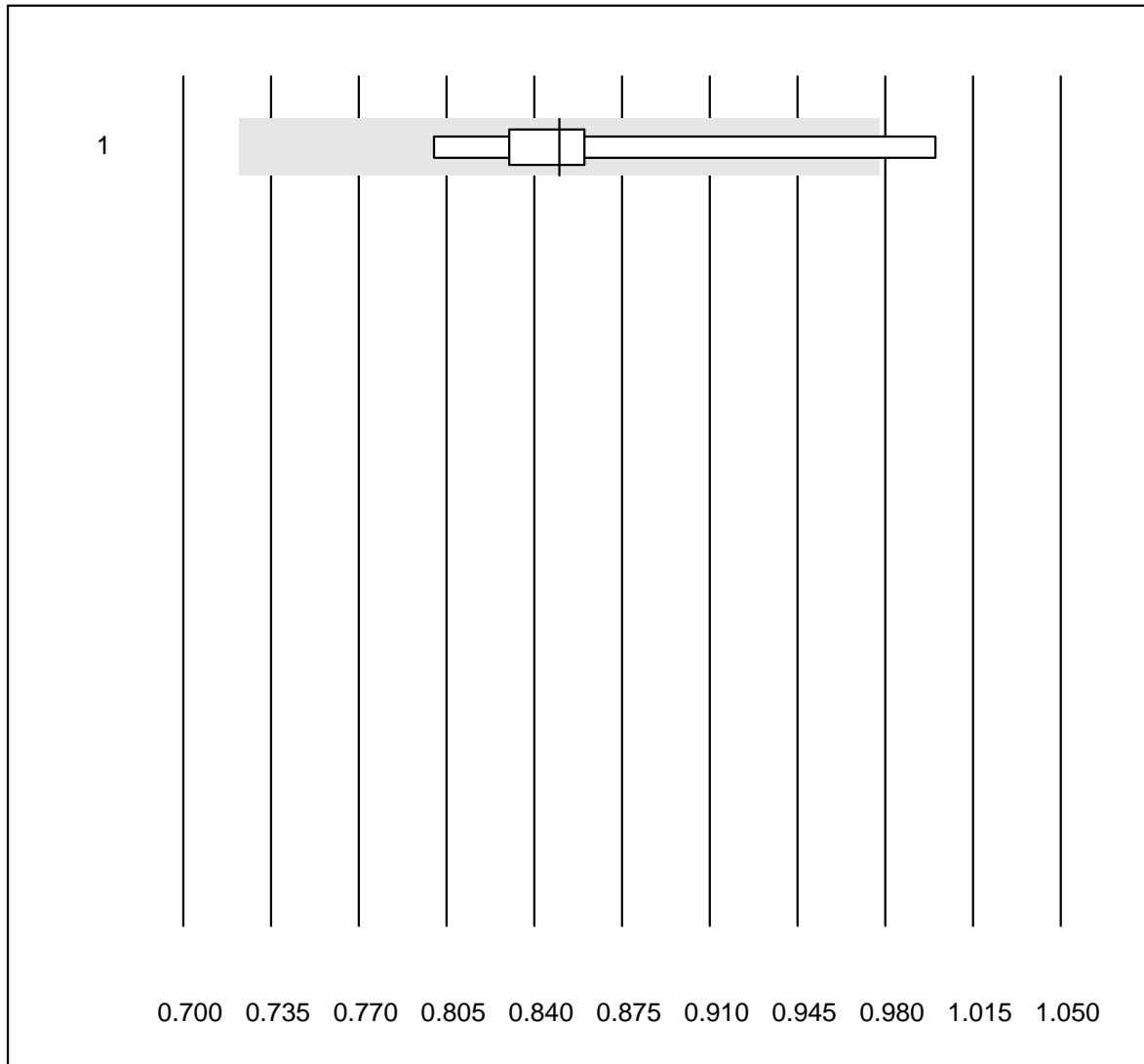


QUALAB tolerance : 15 %

INR MI ()

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 microINR	66	89.4	1.5	9.1	2.1	8.2	e

INR Eurolyser

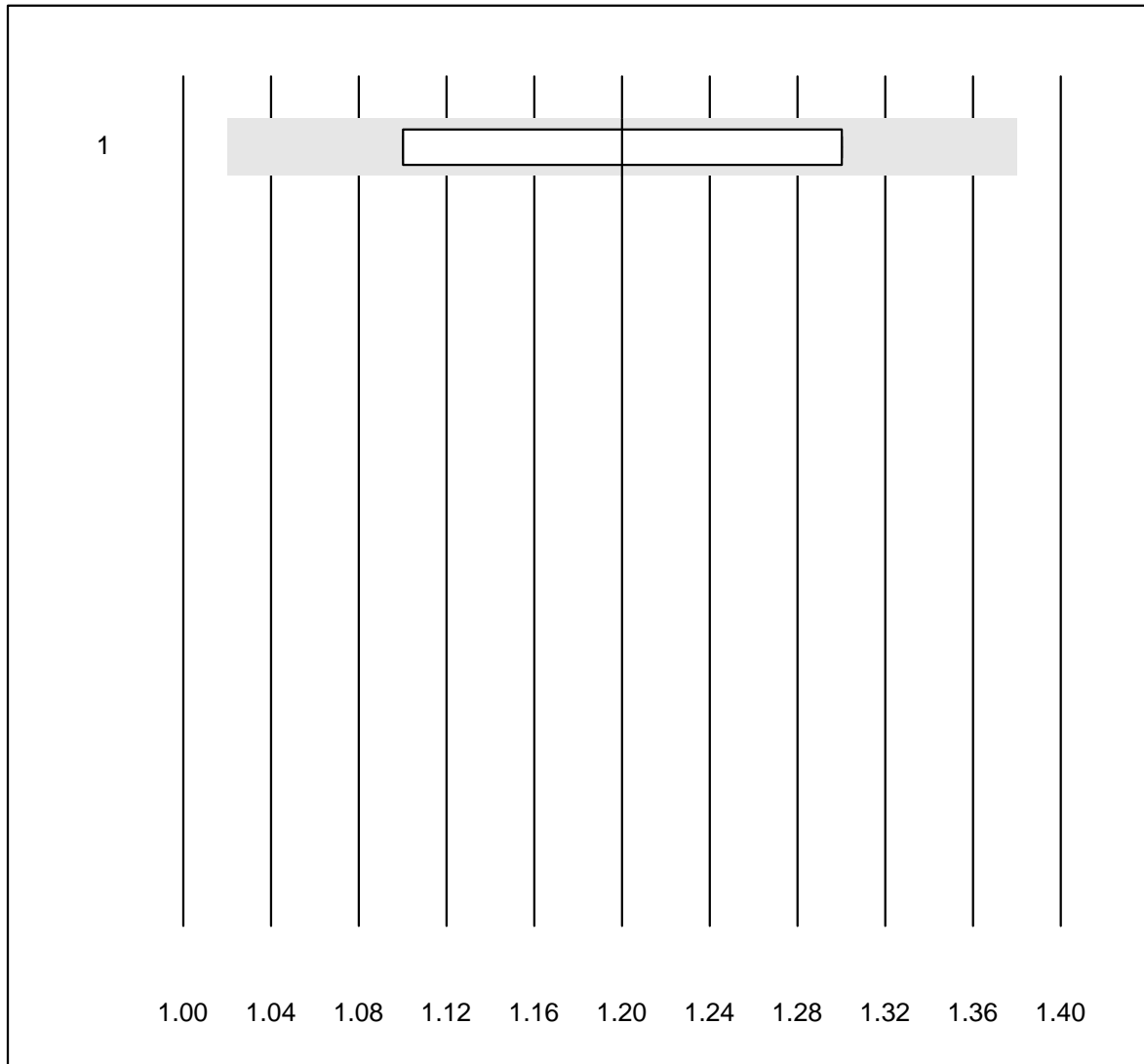


QUALAB tolerance : 15 %

INR Eurolyser ()

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Eurolyser	6	83.3	16.7	0.0	0.9	8.0	e*

INR Xprecia

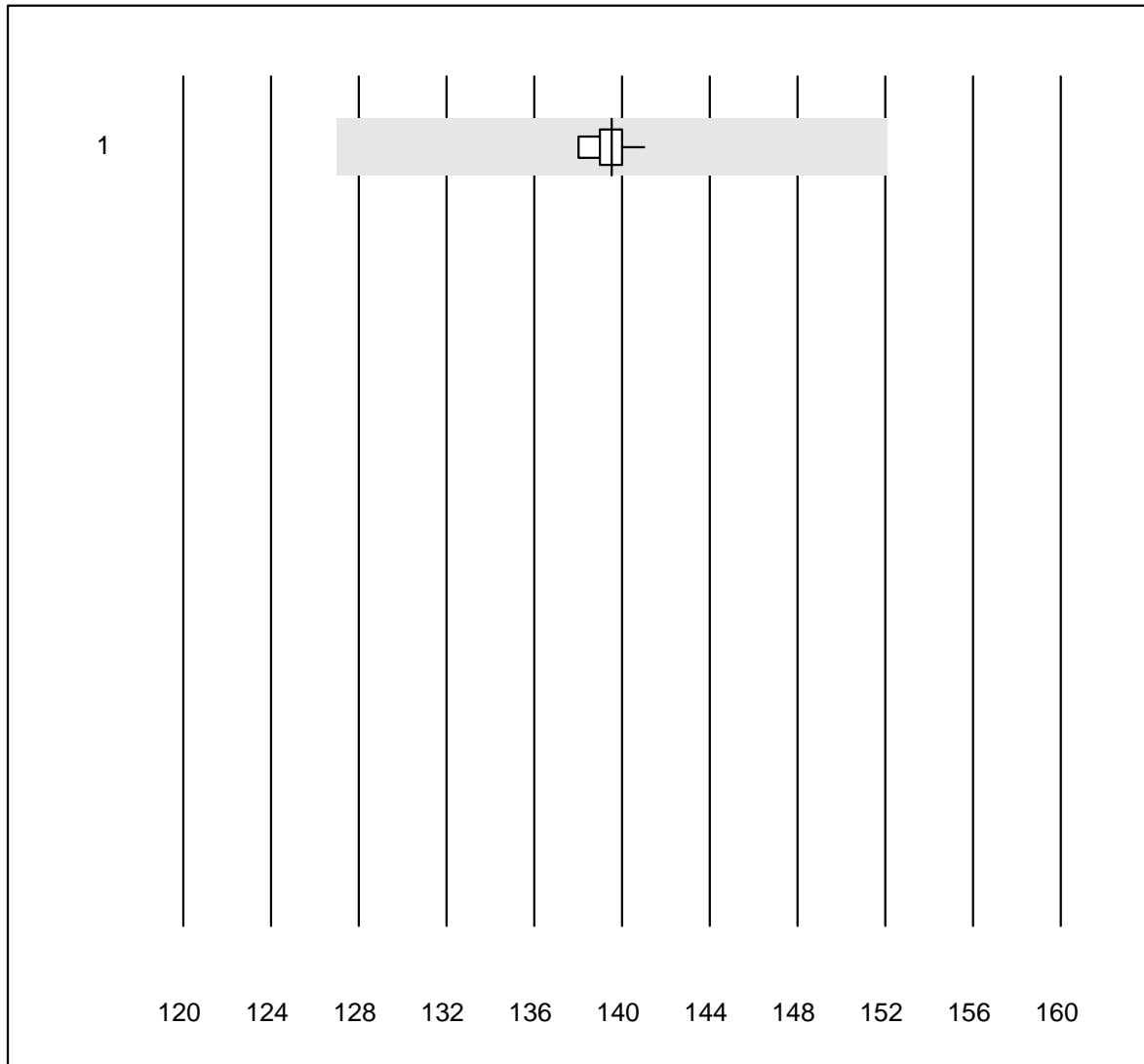


QUALAB tolerance : 15 %

INR Xprecia ()

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Xprecia	7	100.0	0.0	0.0	1.2	7.6	e*

Hemoglobin

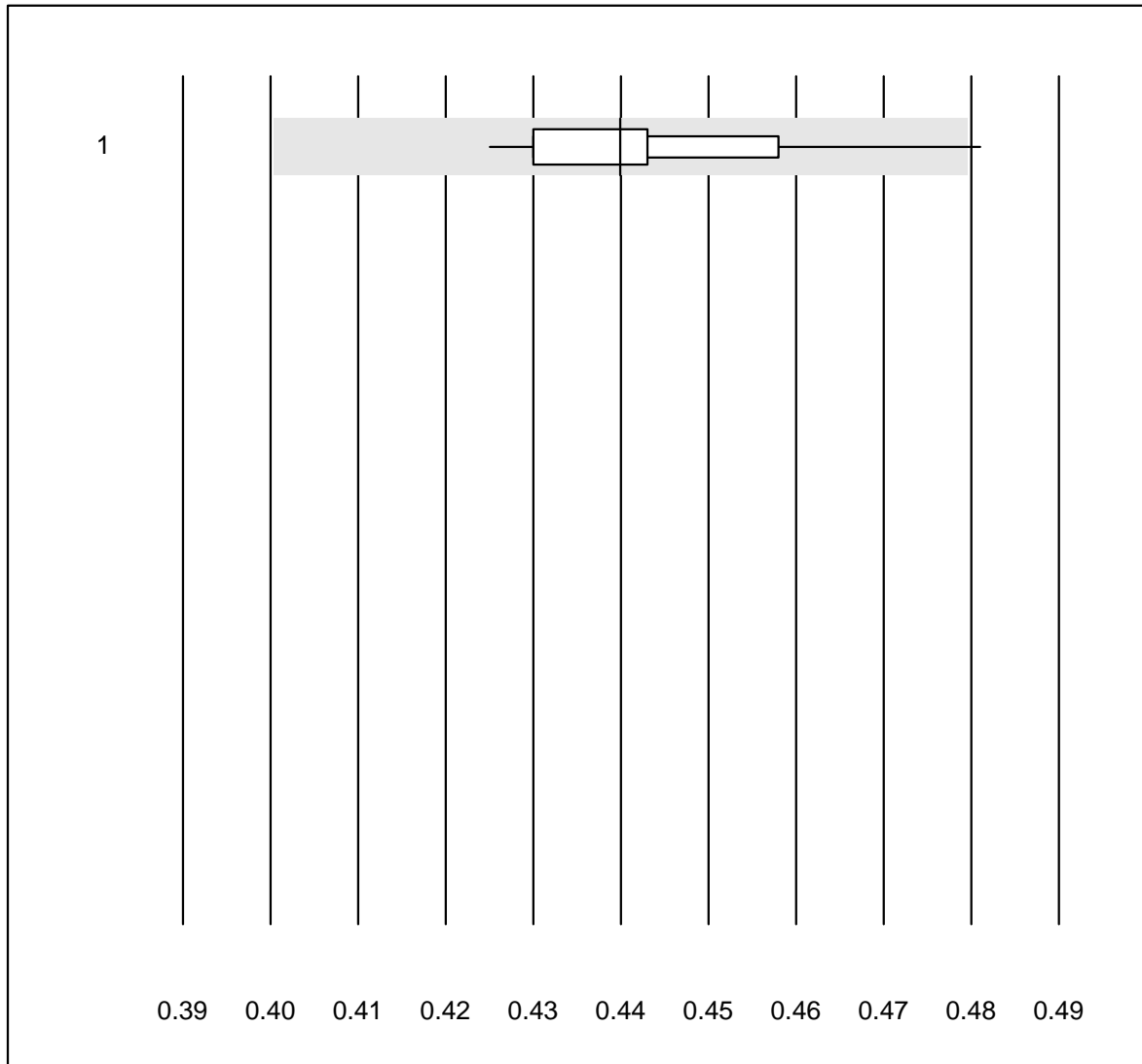


QUALAB tolerance : 9 %

Hemoglobin (g/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	139.5	0.6	e

Hematocrit

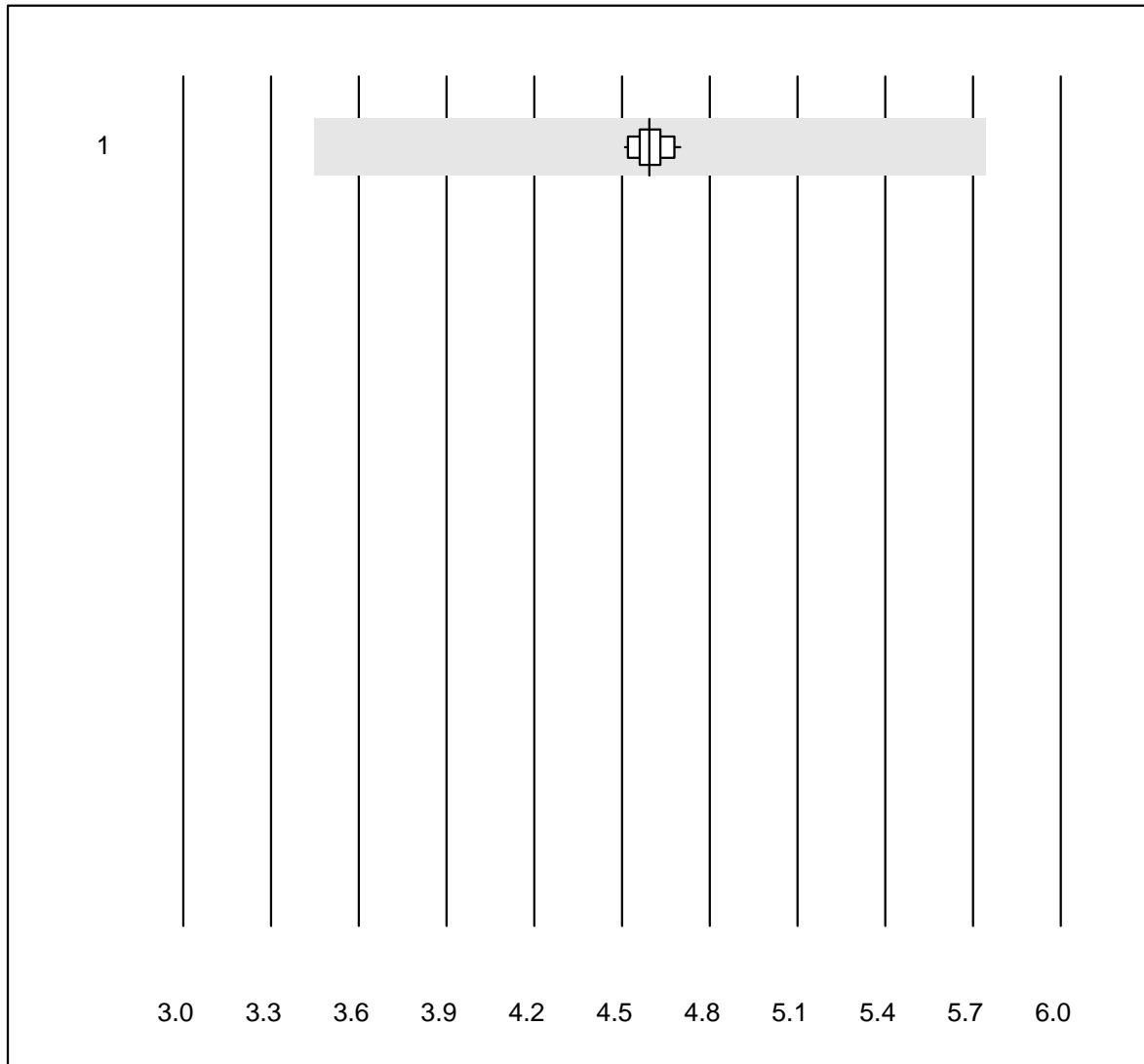


QUALAB tolerance : 9 %

Hematocrit (l/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	14	92.9	7.1	0.0	0.44	3.3	e

Erythrocytes

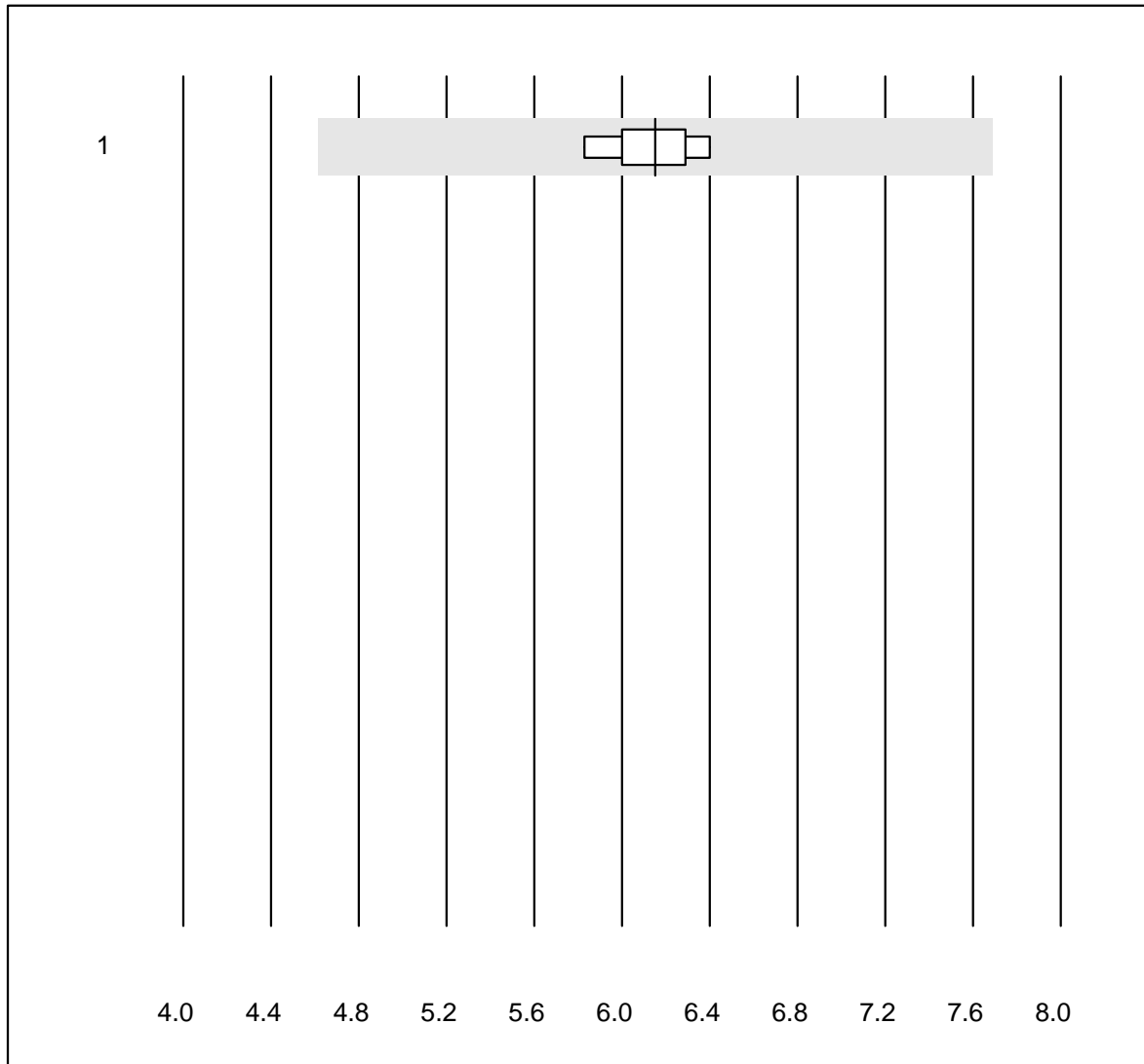


QUALAB tolerance : 25 %

Erythrocytes (T/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	4.59	1.2	e

Leucocytes

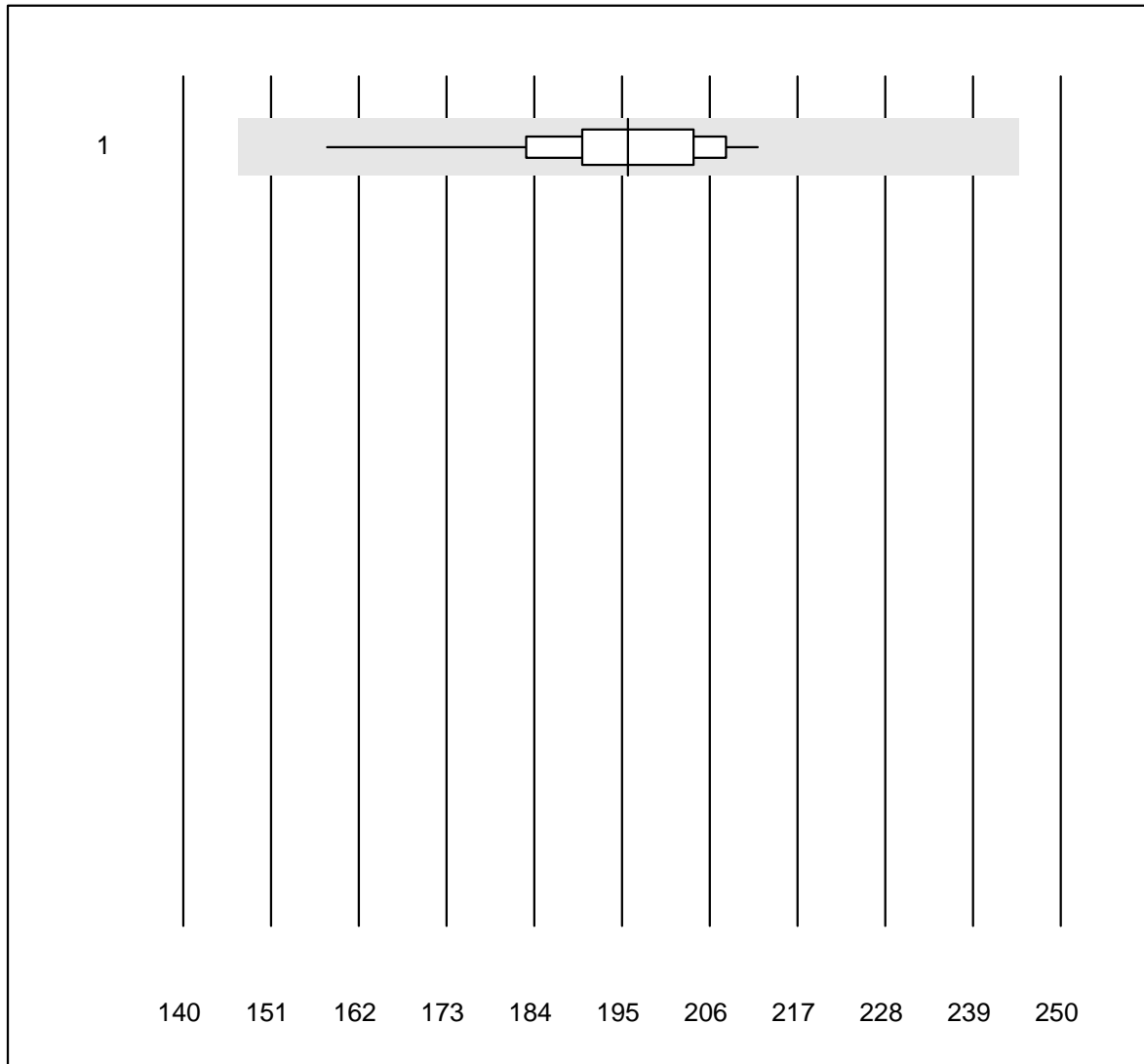


QUALAB tolerance : 25 %

Leucocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	6.15	3.2	e

Thrombocytes

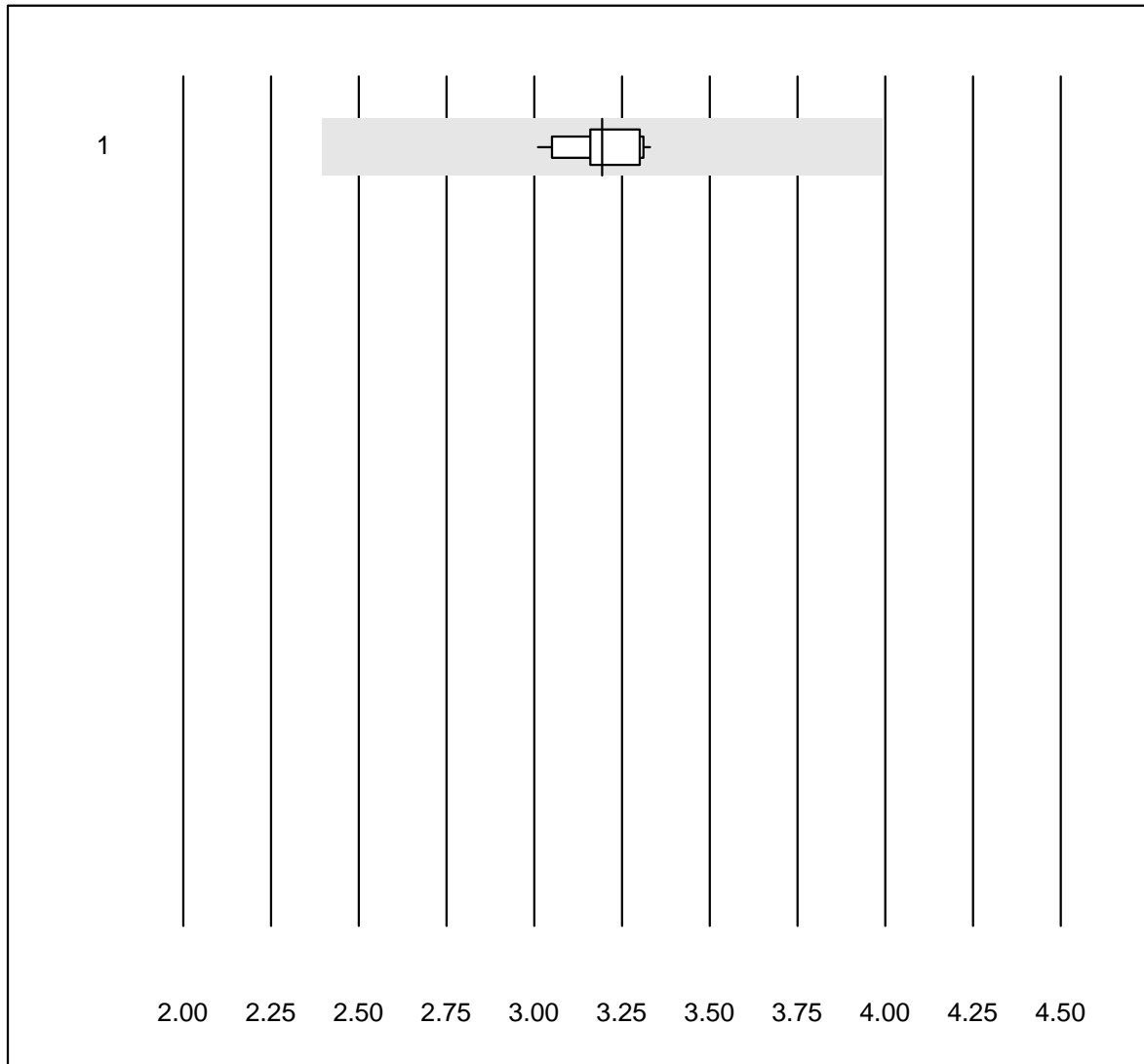


QUALAB tolerance : 25 %

Thrombocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	195.8	7.2	e

Neutrophils

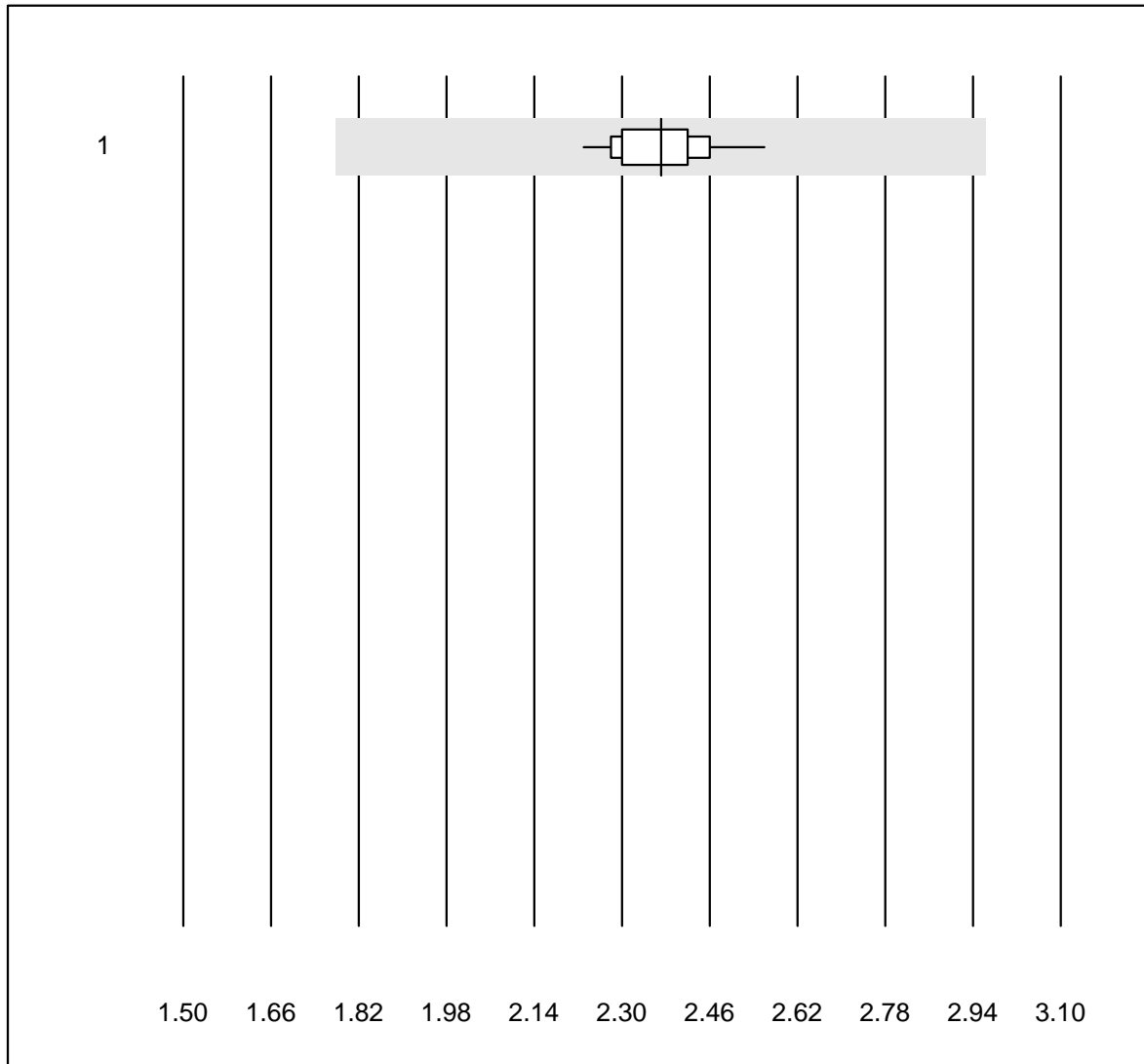


QUALAB tolerance : 25 %

Neutrophils (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	3.19	3.1	e

Lymphocytes

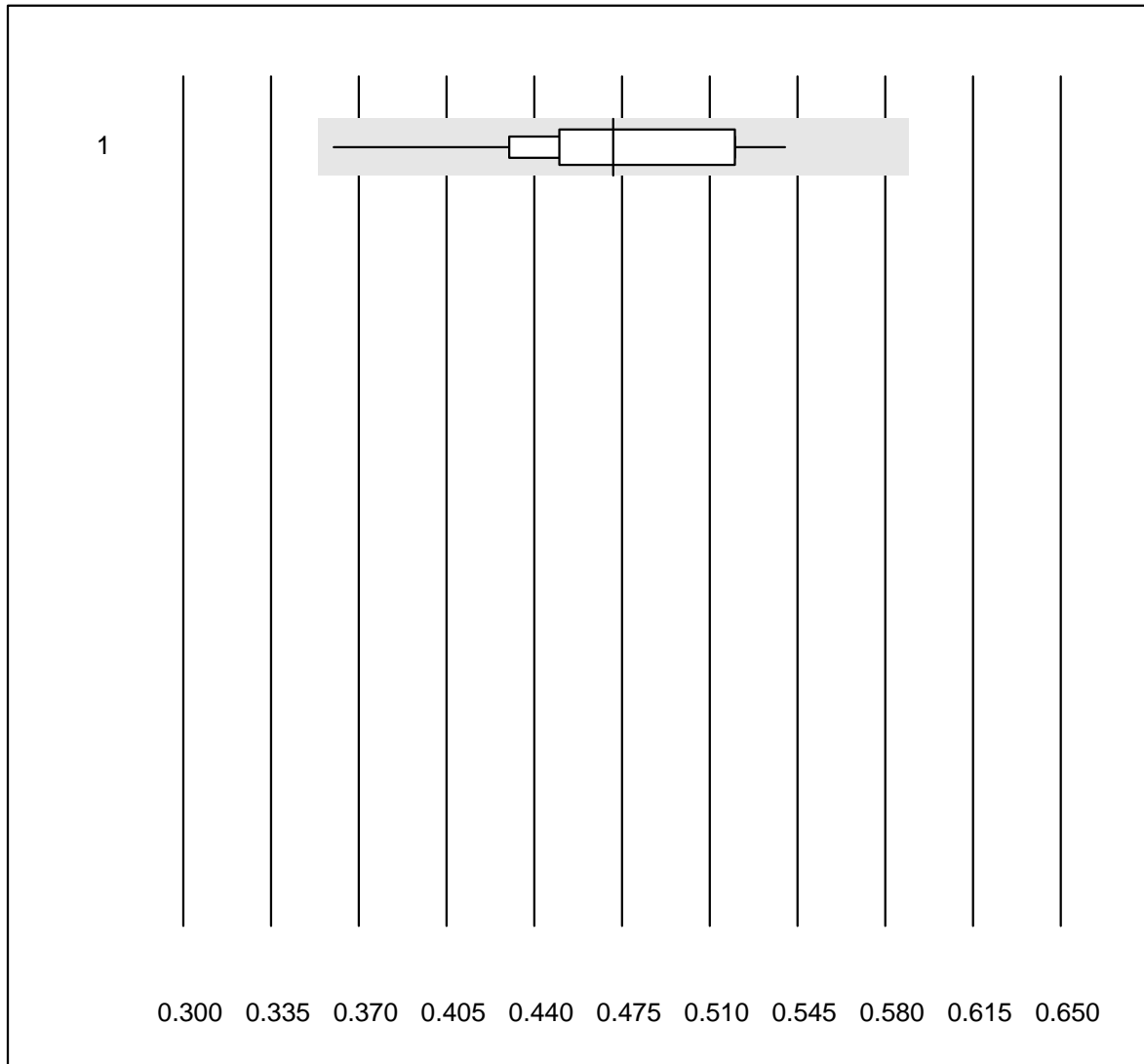


QUALAB tolerance : 25 %

Lymphocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	2.37	3.8	e

Monocytes

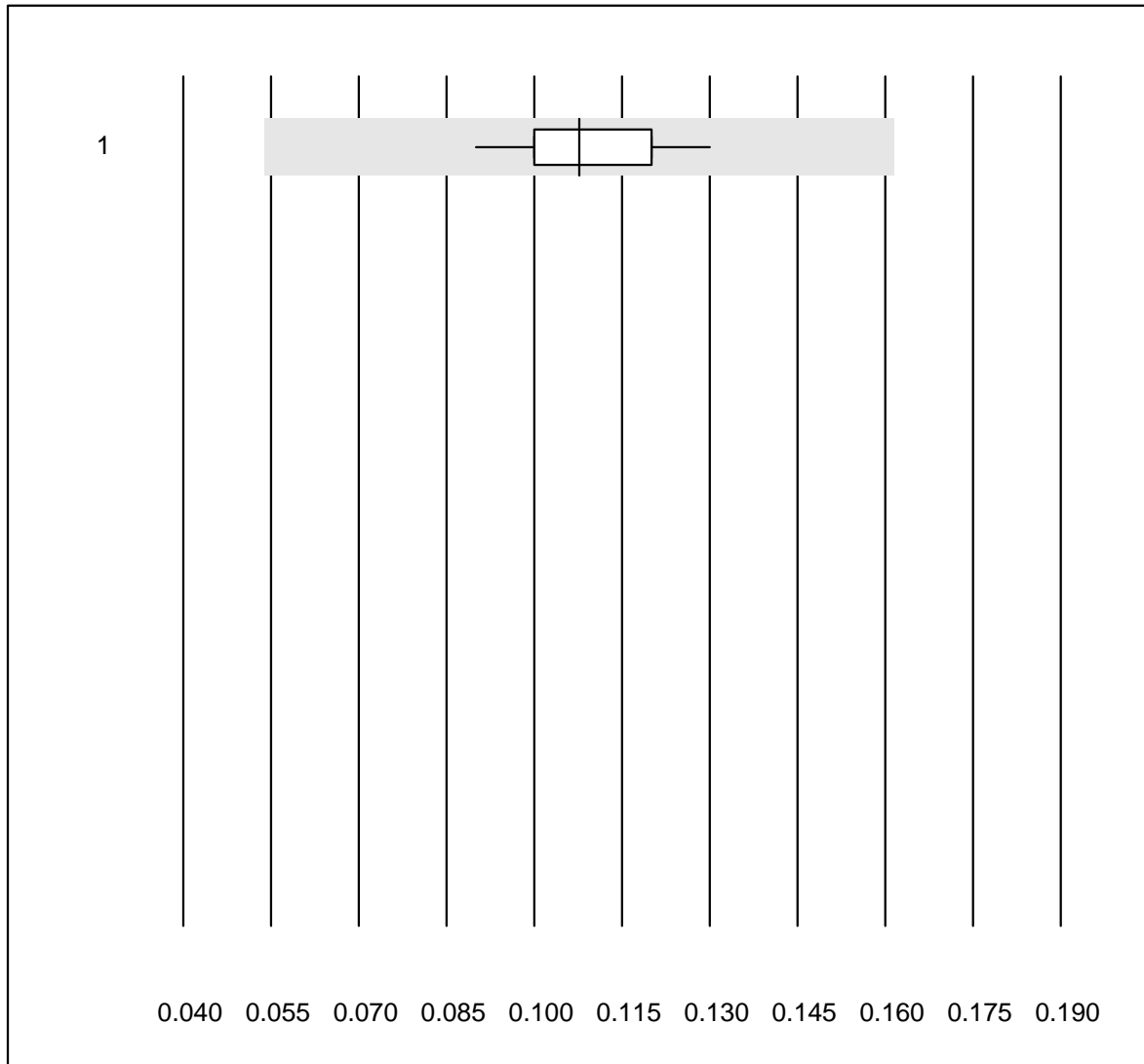


QUALAB tolerance : 25 %

Monocytes (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	0.47	10.2	e

Eosinophils

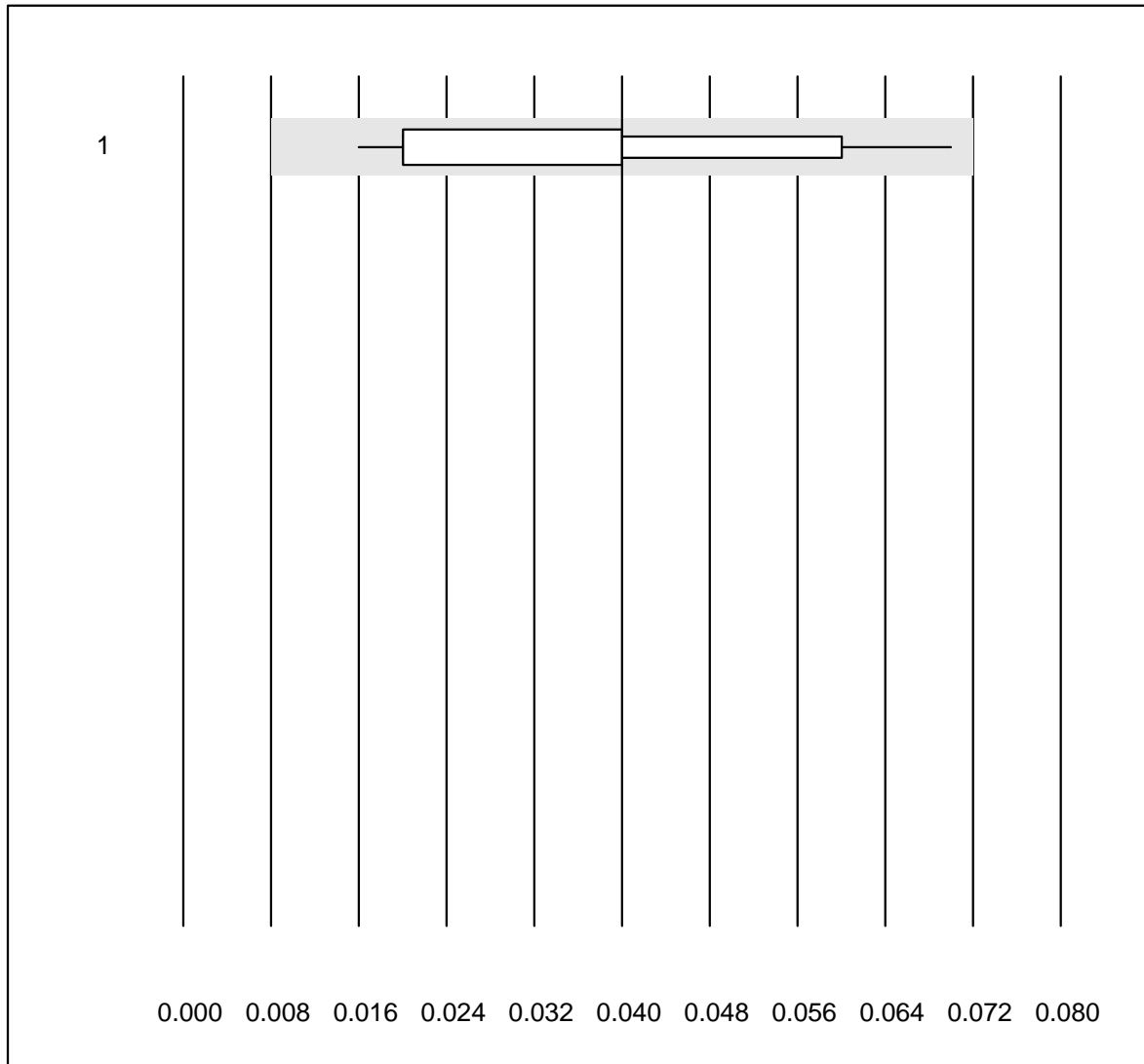


QUALAB tolerance : 50 %

Eosinophils (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	0.11	10.8	e

Basophiles

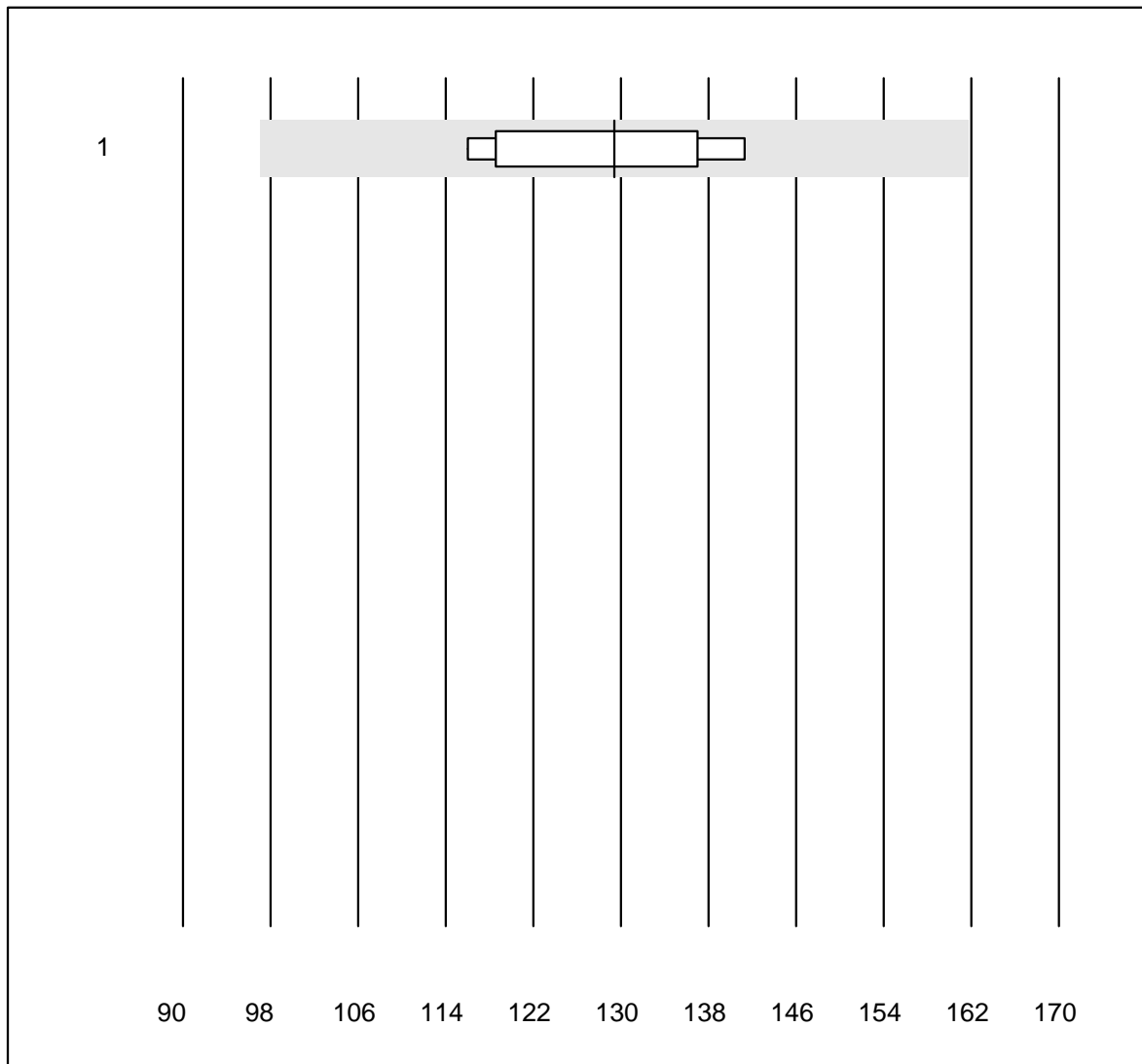


QUALAB tolerance : 80 %

Basophiles (G/l)

No.	Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1	Sysmex	13	100.0	0.0	0.0	0.04	43.4	e*

Reticulocytes



QUALAB tolerance : 25 %

Reticulocytes (G/l)

No. Methode	Total	% good	% insuff.	% outlier	Target value	CV%	Typ
1 Sysmex	9	100.0	0.0	0.0	129.4	7.9	e