

Survey: **BG4/24**
month: **November 2024**
Participant-No: **9900540**
date of issue: **02.11.24**



Referenzinstitut für Bioanalytik

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12808 PRAHA 2
CZECH REPUBLIC



Survey directors

Prof. Dr. C. Knabbe
Prof. Dr. Dr. K.P. Kohse
Prof. Dr. M. Neumaier

Head of RfB

Dr. A. Kessler

Bonn, 22. November 2024

Certificate

We confirm that you have participated in the survey for blood gas analyses.

You have met the requirements of the survey for the following analytes:

pH	(1)	pCO ₂	(1)	pO ₂	(1)
Sodium	(1)	Potassium	(1)	Calcium, ionized	(1)
Chloride	(2)	Glucose	(1)	Lactate	(1)

This certificate is according to the current version of the RiliBÄK valid until the end of May 2025.

W. Zima *A. Kessler* *M. Ende*

http://www.rfb.bio/certificate?nr=9900540&rv_id=BG244&version=0&uid=CF3D3AF96157499A8FE0AB57BA00663C

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Listing and Evaluation of all your results

Explanations

Certificate

A certificate is issued (given) for an analyte only if the basis for an evaluation of the accuracy is given by the guidelines of the German Medical Association and/or if an evaluation is possible in analogy to these guidelines (see comments on the evaluation) and, if both results for an analyte are within the given acceptance limits. (marked as '+' below C)

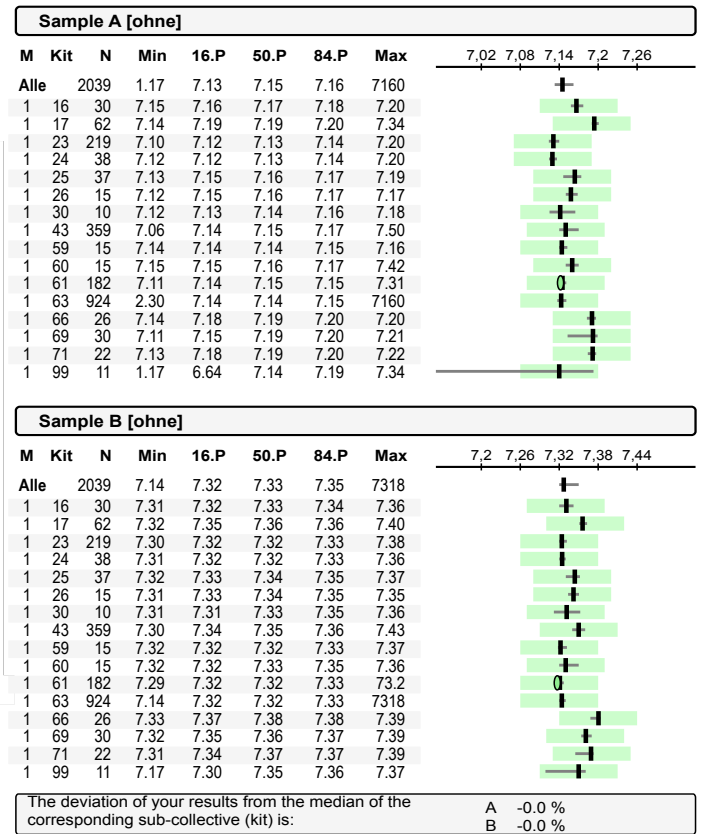
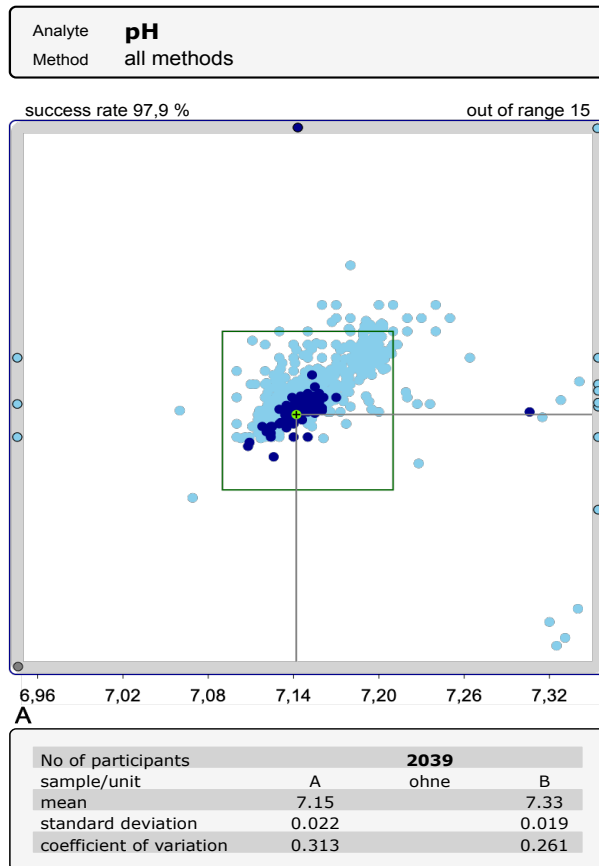
Certificate of participation

In the participation certificate all analytes which are included in the list on this page are listed.

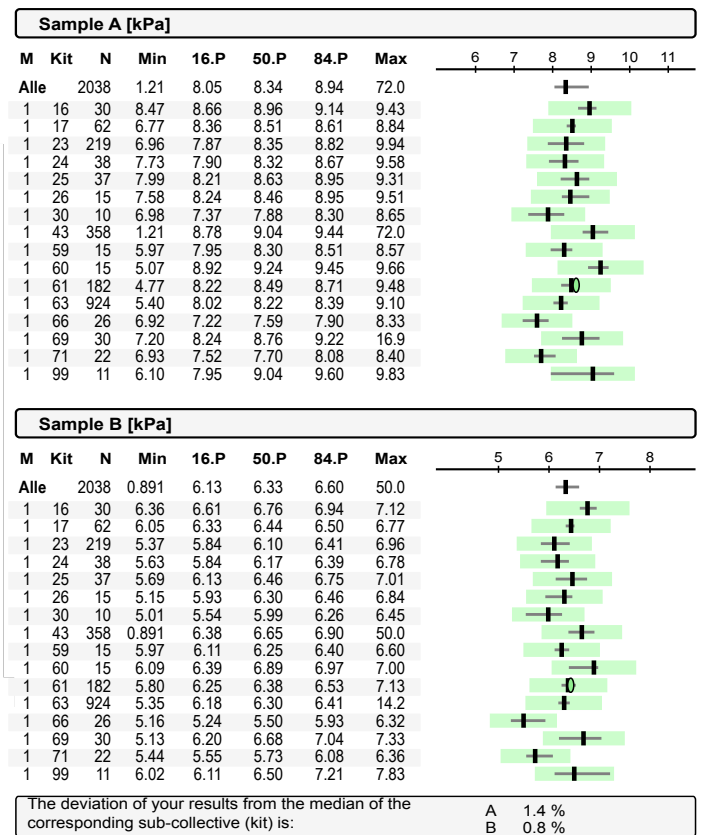
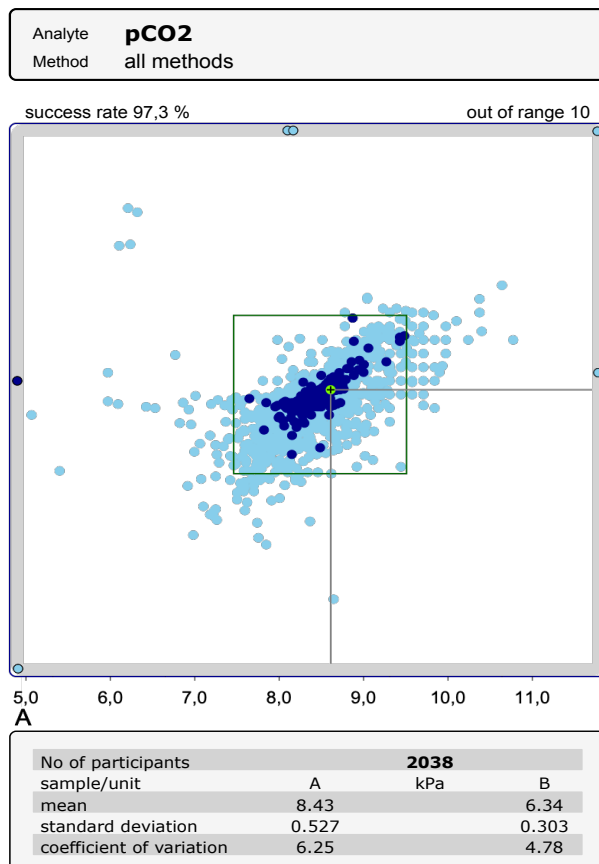
If all analytes are listed on the certificate no participation certificate is printed.

Legend:	C=Certification, M=No of method, R=your result, D=difference (R-T) Dmax= maximum allowable amount of difference in measurement, partly given by annex 1 of the guideline of the BÄK (Dt. Ärzteblatt 111, Heft 38, 19.9.2014). T = target value, either reference method value or assigned value, LL UL = lower resp. upper limit	Certification: + = fulfilled (quotient D/Dmax <= 1.0) - = not fulfilled (quotient D/Dmax > 1.0 ± = certification cancelled because of technical and/or analytical reasons
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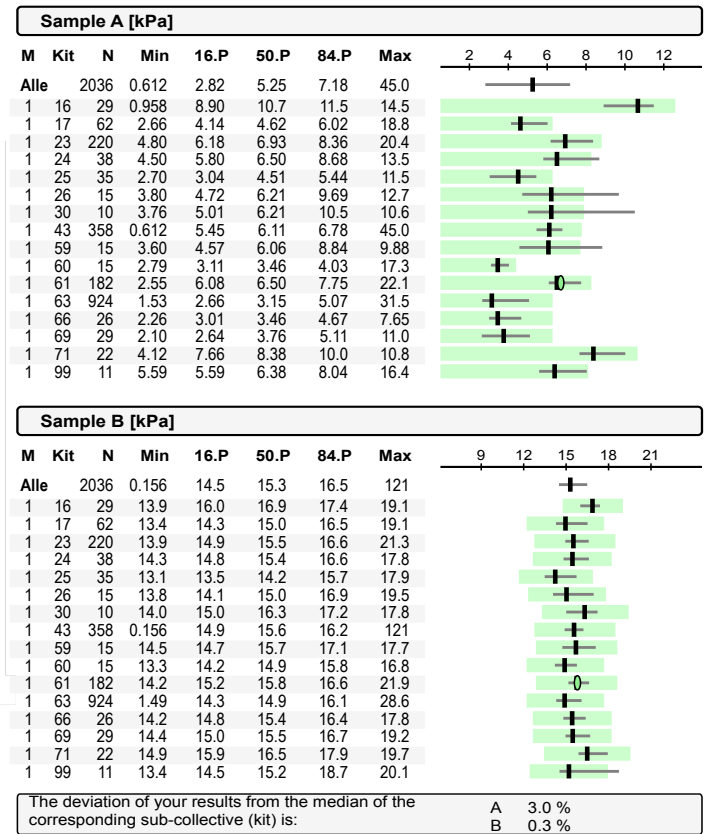
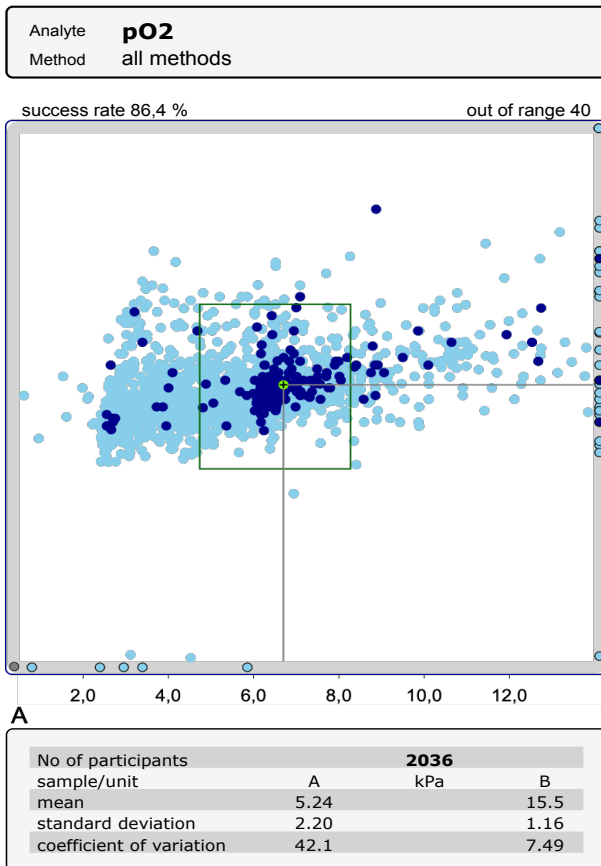
	C	M	R	D/Dmax	T	LL	UL								
pH	+	1	A 7.142	-0.13	7.150	7.090	7.210								
[ohne]			B 7.317	-0.05	7.320	7.260	7.380								
pCO2	+	1	A 8.61	0.11	8.49	7.46	9.51								
[kPa]			B 6.43	0.06	6.38	5.61	7.16								
pO2	+	1	A 6.70	0.11	6.50	0	8.28								
[kPa]			B 15.8	0.03	15.7	12.8	18.7								
Sodium	+	1	A 119	0.16	118	112	124								
[mmol/l]			B 136	0	136	129	143								
Potassium	+	1	A 2.20	0	2.20	2.02	2.38								
[mmol/l]			B 3.30	0.38	3.20	2.94	3.46								
Calcium, ionized	+	1	A 1.71	0.03	1.70	1.44	1.96								
[mmol/l]			B 1.20	0.05	1.19	1.01	1.37								
Chloride	+	2	A 79.0	0	79.0	72.6	85.4								
[mmol/l]			B 96.0	0	96.0	88.3	104								
Glucose	+	1	A 21.7	0.02	21.6	18.3	25.0								
[mmol/l]			B 12.3	0.15	12.0	10.2	13.9								
Lactate	+	1	A 16.0	0.59	14.4	11.7	17.1								
[mmol/l]			B 10.3	0.31	9.70	7.94	11.6								



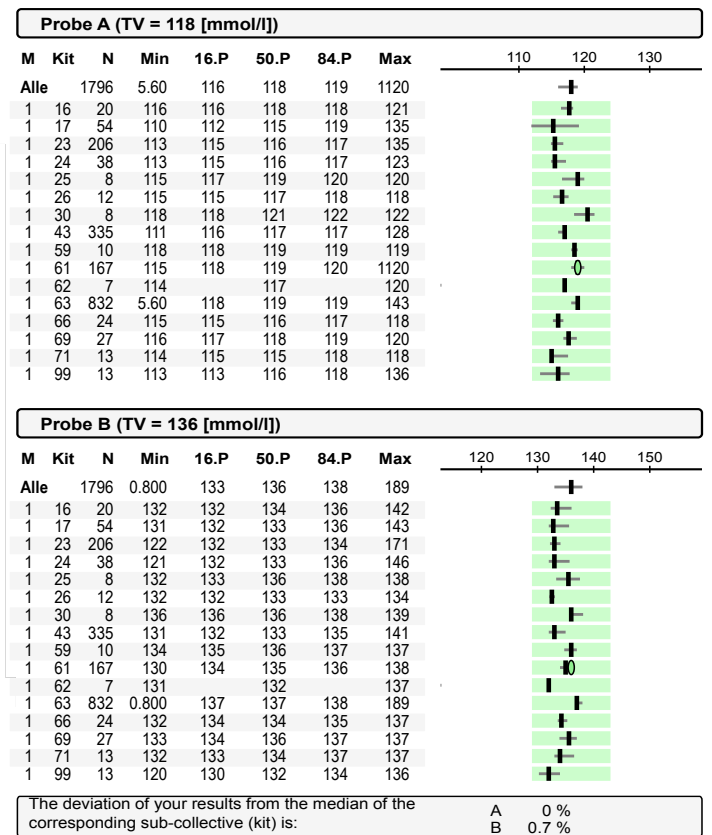
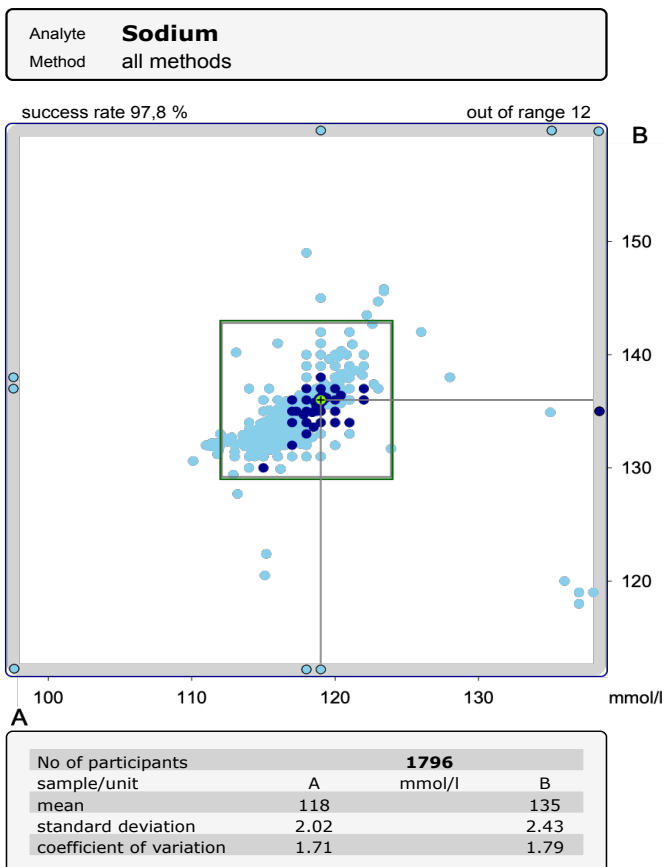
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1-11(7), 1-22(7), 1-27(6), 1-31(3), 1-44(6), 1-56(9), 1-62(6),



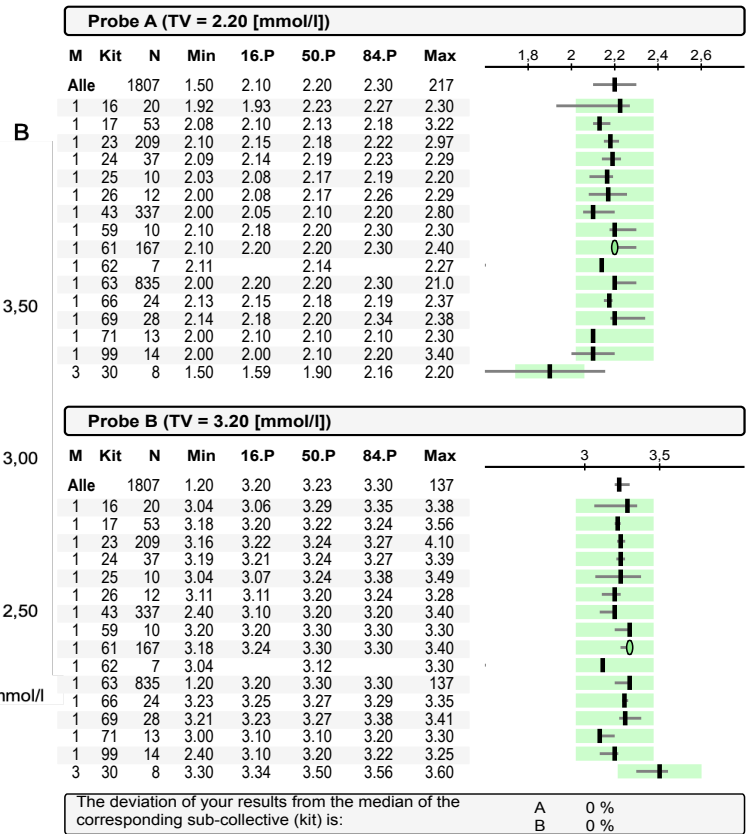
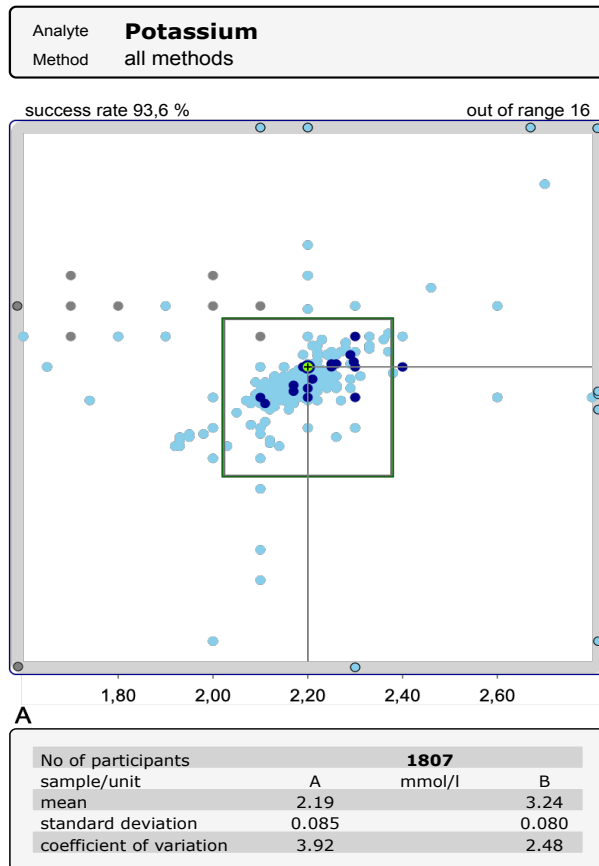
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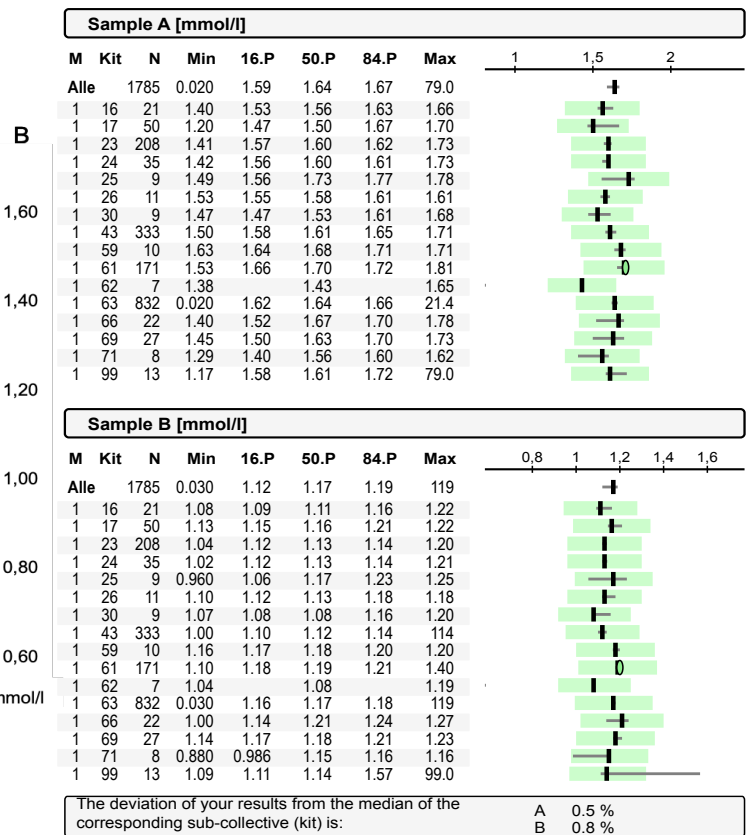
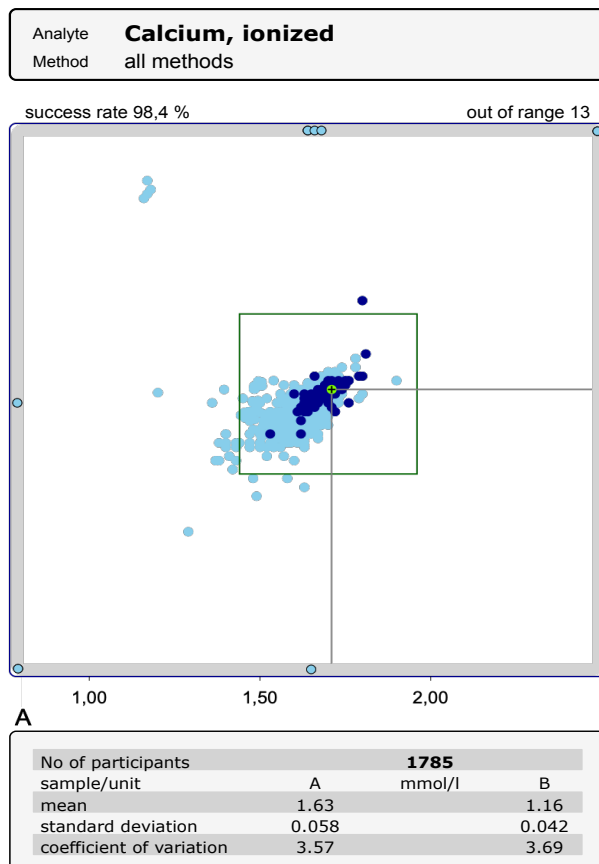
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1-11(8), 1-22(7), 1-27(6), 1-31(3), 1-44(6), 1-56(9), 1-62(6),



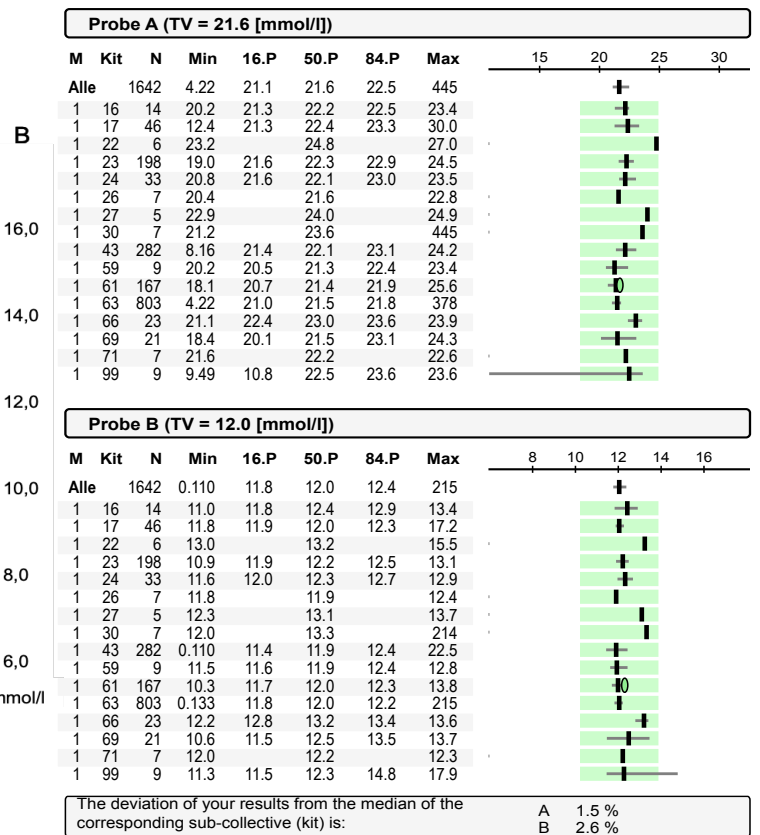
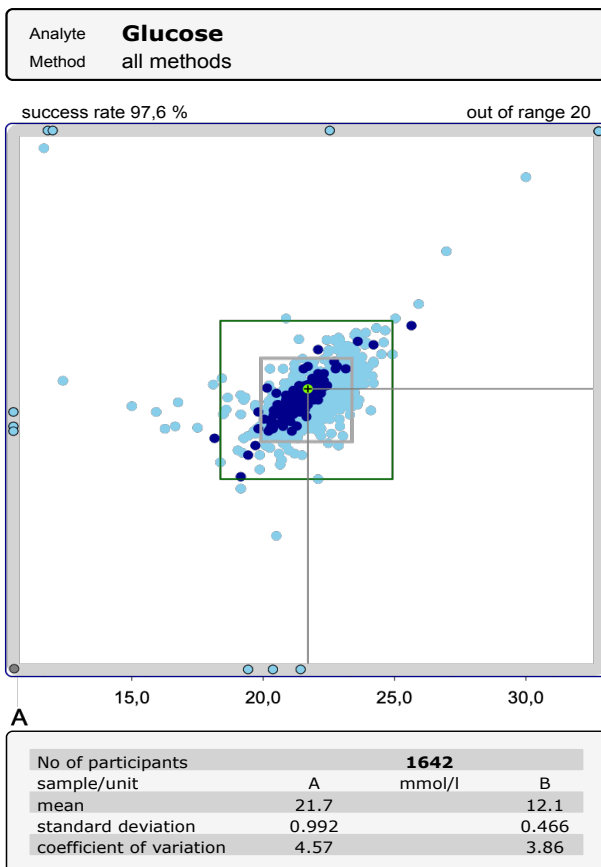
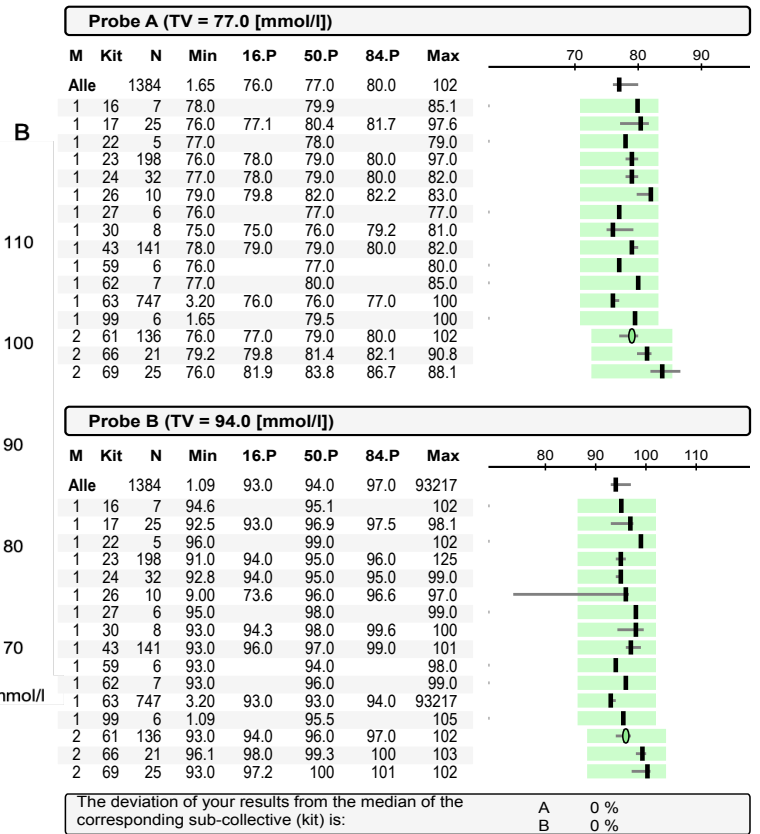
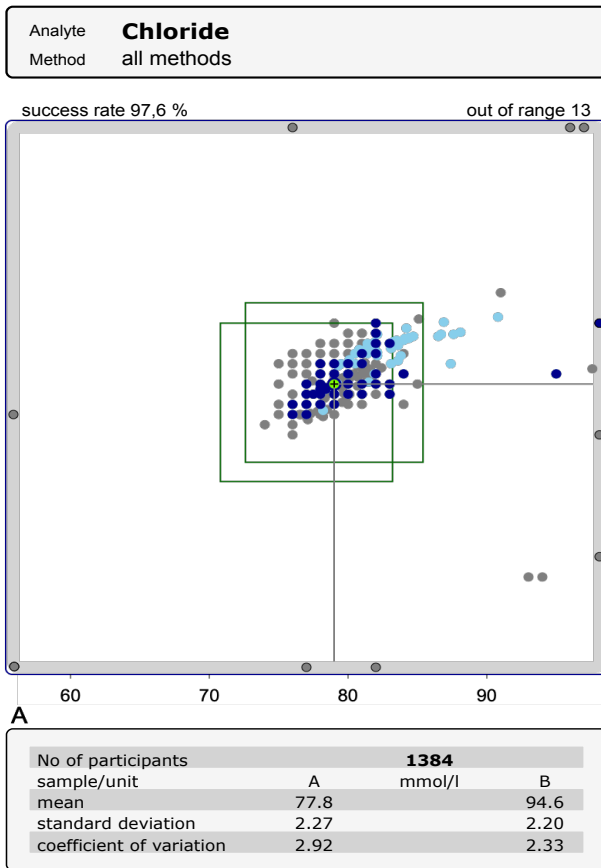
Other kits (number):
1-11(4), 1-22(6), 1-27(6), 1-44(5), 1-60(1),

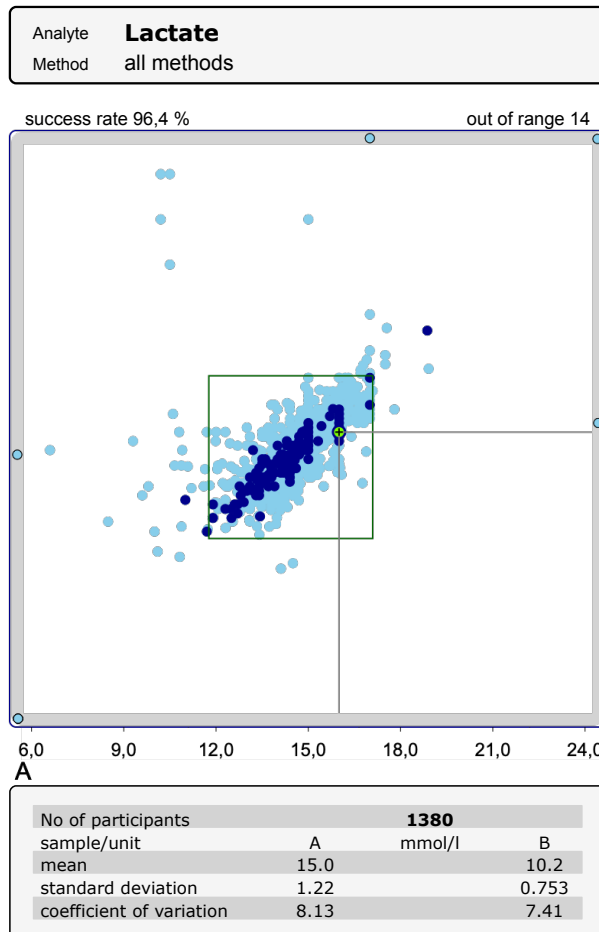


Other kits (number):
1-11(4), 1-22(6), 1-40(1), 1-44(5), 1-60(1), 4-27(6).



Other kits (number):
1-11(2), 1-22(5), 1-27(5), 1-44(5), 1-60(2).





Sample A [mmol/l]												
M	Kit	N	Min	16.P	50.P	84.P	Max	9	12	15	18	21
Alle	1380	0.152	13.9	15.0	16.0	165						
1	16	15	15.0	15.4	16.1	17.0	17.6					
1	17	45	10.6	13.0	14.9	16.6	17.8					
1	22	6	9.30		11.6		13.8					
1	23	192	10.8	13.2	14.1	15.0	16.9					
1	24	24	12.0	12.5	14.2	15.4	18.9					
1	26	5	14.3		15.1		16.8					
1	30	8	8.49	9.68	12.4	15.2	16.0					
1	43	275	1.69	14.7	15.0	15.6	135					
1	59	8	10.1	11.1	14.7	16.4	16.8					
1	61	167	11.0	13.4	14.4	16.0	18.9					
1	62	6	6.60		10.8		16.0					
1	63	565	0.152	15.0	16.0	16.0	165					
1	66	22	13.6	15.0	15.6	16.1	16.3					
1	69	17	13.9	14.9	16.3	16.9	17.5					
1	71	5	15.1		15.2		15.6					
1	99	11	10.5	13.6	15.2	16.0	16.4					

Sample B [mmol/l]												
M	Kit	N	Min	16.P	50.P	84.P	Max	6	8	10	12	14
Alle	1380	0.108	9.41	10.3	10.7	109						
1	16	15	9.90	10.4	11.1	11.4	12.6					
1	17	45	9.90	10.2	10.5	10.7	10.8					
1	22	6	8.53		9.55		10.2					
1	23	192	7.28	8.79	9.36	9.91	10.9					
1	24	24	8.22	8.94	9.57	10.1	11.8					
1	26	5	9.17		10.0		10.6					
1	30	8	8.32	8.65	9.15	10.1	10.6					
1	43	275	1.11	9.80	10.2	10.7	93.0					
1	59	8	7.66	8.16	9.85	10.7	10.8					
1	61	167	8.10	9.10	9.70	10.4	12.5					
1	62	6	8.10		9.50		10.5					
1	63	565	0.108	10.1	10.5	10.7	109					
1	66	22	10.2	10.5	10.8	11.1	11.5					
1	69	17	10.2	10.8	11.4	11.9	12.1					
1	71	5	10.1		10.3		10.4					
1	99	11	8.87	8.89	10.5	11.4	14.0					

The deviation of your results from the median of the corresponding sub-collective (kit) is:

A 11 %
B 6.1 %

Other kits (number):
1-25(1), 1-27(4), 1-44(3), 1-60(1),

