

## Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 5

## EQA round: TE1/19 - Trace Elements

Dead line: 23.04.2019

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability					Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>Set of samples 1 (plasma)</b>														
<b>(361) Al - plasma</b>					4							4	2	50%
Samples and groups		[µmol/L]												
Sample A1		0,870	0,73	84	4	CVE	0,374	0,037	25%	0,28	0,468	4	2	50%
Other					4	0						4		
							2x 2, 2x 7							
Sample B1		3,51	0,90	26	4	CVE	3,45	0,17	25%	2,58	4,32	4	4	100%
Other					4	0						4		
							2x 2, 2x 7							
<b>(357) Cr - plasma</b>					2							2	2	100%
Samples and groups		[nmol/L]												
Sample A1		86,8	4,1	4,7	2	CVE	88,5	7,7	25%	66,3	111	2	2	100%
Other					2	0						2		
							1x 2, 1x 7							
Sample B1		469	16	3,3	2	CVE	519	37	25%	389	649	2	2	100%
Other					2	0						2		
							1x 2, 1x 7							
<b>(351) Cu - plasma</b>					20							20	20	100%
Samples and groups		[µmol/L]												
Sample A1		13,2	1,4	10	20	CVE	13,6	0,50	25%	10,2	17	20	20	100%
(2) ET-AAS		13,5	0,63	4,7	5	0						5		
(5) Spectrophotometry		13,2	1,4	11	9	0						9		
Other					6	0						6		
							4x 1, 2x 7							
Sample B1		18,4	1,4	7,8	20	CVE	19,1	0,63	25%	14,3	23,9	20	20	100%
(2) ET-AAS		19,3	0,59	3,1	5	0						5		
(5) Spectrophotometry		18,4	1,3	6,9	9	0						9		
Other					6	0						6		
							4x 1, 2x 7							
<b>(352) Mn - plasma</b>					3							3	3	100%
Samples and groups		[nmol/L]												
Sample A1		188	12	6,3	3	CVE	215	11	25%	161	269	3	3	100%
Other					3	0						3		
							2x 2, 1x 7							
Sample B1		365	38	10	3	CVE	419	22	25%	314	524	3	3	100%
Other					3	0						3		
							2x 2, 1x 7							
<b>(355) Se - plasma</b>					7							7	6	86%
Samples and groups		[µmol/L]												
Sample A1		0,720	0,16	23	7	CVE	0,75	0,051	25%	0,562	0,938	7	6	86%
Other					7	0						7		
							4x 2, 1x 4, 2x 7							
Sample B1		1,19	0,16	14	7	CVE	1,16	0,067	25%	0,87	1,45	7	7	100%
Other					7	0						7		
							4x 2, 1x 4, 2x 7							
<b>(350) Zn - plasma</b>					19							19	18	95%
Samples and groups		[µmol/L]												
Sample A1		22,5	1,3	5,8	19	CVE	22,8	0,96	25%	17,1	28,5	19	19	100%
(1) F-AAS		22,9	1,9	8,2	8	0						8		
(5) Spectrophotometry		22,6	0,96	4,3	9	0						9		
Other					2	0						2		
							2x 7							
Sample B1		30,4	2,0	6,6	19	CVE	31,1	1,2	25%	23,3	38,9	19	18	95%
(1) F-AAS		30,7	3,0	9,7	8	0						8		
(5) Spectrophotometry		30,4	1,0	3,4	9	0						9		
Other					2	0						2		
							2x 7							
<b>Set of samples 2 (blood)</b>														
<b>(353) Cd - blood</b>					3							3	1	33%
Samples and groups		[nmol/L]												
Sample A2		30,9	31	100	3	CVE	10,1	0,80	25%	7,57	12,7	3	1	33%
Other					3	0						3		
							1x 2, 2x 7							
Sample B2		28,4	4,6	16	3	CVE	31,1	1,8	25%	23,3	38,9	3	2	67%
Other					3	0						3		
							1x 2, 2x 7							

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Test	[unit]						Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(356) Hg - blood</b>					3							3	0	0,00
Samples and groups	[nmol/L]													
<b>Sample A2</b>		10,4	4,4	42	3	CVE	3,29	0,35	25%	2,46	4,12	3	0	0,00
Other					3							3		
						1x 2, 1x 7, 1x 99								
<b>Sample B2</b>		38,1	2,1	5,6	3	CVE	35,9	2,5	25%	26,9	44,9	3	3	100%
Other					3							3		
						1x 2, 1x 7, 1x 99								
<b>(354) Pb - blood</b>					6							6	5	83%
Samples and groups	[nmol/L]													
<b>Sample A2</b>		109	10	9,6	6	CVE	101	6,5	25%	75,7	127	6	5	83%
Other					6							6		
						3x 2, 1x 3, 2x 7								
<b>Sample B2</b>		686	77	11	6	CVE	662	36	25%	496	828	6	6	100%
Other					6							6		
						3x 2, 1x 3, 2x 7								

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End of report

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