

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: TE1/20 - Trace Elements

Deadline: 20.04.2020

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 _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability					Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
Set 1 (plasma)														
(361) Al - plasma														
Samples and groups [µmol/L] 1 1 100%														
Sample A1	0,630				1	CVE	0,56	0,089	25%	0,42	0,7	1	1	100%
Other					1	0						1		
Sample B1	1,57				1	CVE	1,45	0,16	25%	1,08	1,82	1	1	100%
Other					1	0						1		
(357) Cr - plasma														
Samples and groups [nmol/L] 1 1 100%														
Sample A1	56,9				1	CVE	55,8	5,8	25%	41,8	69,8	1	1	100%
Other					1	0						1		
Sample B1	232				1	CVE	227	17	25%	170	284	1	1	100%
Other					1	0						1		
(351) Cu - plasma														
Samples and groups [µmol/L] 19 19 17 89%														
Sample A1	11,7	1,7	14	19		CVE	12,5	0,65	25%	9,37	15,7	19	17	89%
(2) ET-AAS	12,0	0,52	4,3	5	0							5		
(5) Spectrophotometry	11,8	2,0	17	10	0							10		
Other				4	0							4		
Sample B1	21,5	2,3	11	19		CVE	22,9	1,0	25%	17,1	28,7	19	18	95%
(2) ET-AAS	22,2	1,6	7,3	5	0							5		
(5) Spectrophotometry	20,5	2,9	14	10	0							10		
Other				4	0							4		
(352) Mn - plasma														
Samples and groups [nmol/L] 2 2 1 50%														
Sample A1	122	42	34	2		CVE	85,5	9,1	25%	64,1	107	2	1	50%
Other				2	0							2		
Sample B1	292	45	15	2		CVE	264	18	25%	198	330	2	1	50%
Other				2	0							2		
(355) Se - plasma														
Samples and groups [µmol/L] 6 6 6 100%														
Sample A1	0,795	0,096	12	6		CVE	0,854	0,040	25%	0,64	1,07	6	6	100%
(2) ET-AAS	0,795	0,096	12	5	0							5		
Other				1	0							1		
Sample B1	2,14	0,16	7,3	6		CVE	2,07	0,094	25%	1,55	2,59	6	6	100%
(2) ET-AAS	2,17	0,11	5,1	5	0							5		
Other				1	0							1		
(350) Zn - plasma														
Samples and groups [µmol/L] 18 18 18 100%														
Sample A1	28,2	2,2	7,9	18		CVE	28,8	1,2	25%	21,6	36	18	18	100%
(1) F-AAS	28,6	2,1	7,3	9	0							9		
(5) Spectrophotometry	27,6	1,8	6,7	9	0							9		
Sample B1	41,8	3,1	7,5	18		CVE	43,2	1,6	25%	32,4	54	18	18	100%
(1) F-AAS	42,4	4,1	9,7	9	0							9		
(5) Spectrophotometry	40,9	2,9	7,1	9	0							9		
Set 2 (blood)														
(353) Cd - blood														
Samples and groups [nmol/L] 1 1 1 100%														
Sample A2	19,9			1		CVE	19,6	0,89	25%	14,7	24,5	1	1	100%
Other				1	0							1		
Sample B2	38,9			1		CVE	45,4	2,7	25%	34	56,8	1	1	100%
Other				1	0							1		

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							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(356) Hg - blood					1							1	1	100%
Samples and groups	[nmol/L]													
Sample A2		14,6			1		CVE	14	1,5	25%	10,5	17,5	1	1 100%
Other					1	0							1	
							1x 2							
Sample B2		55,2			1		CVE	51,8	5,0	25%	38,8	64,8	1	1 100%
Other					1	0							1	
							1x 2							
(354) Pb - blood					4								4	4 100%
Samples and groups	[nmol/L]													
Sample A2		336	31	9,3	4		CVE	348	17	25%	261	435	4	4 100%
Other					4	0							4	
							3x 2, 1x 3							
Sample B2		1100	33	3,0	4		CVE	1130	46	25%	847	1420	4	4 100%
Other					4	0							4	
							3x 2, 1x 3							

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End of report

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