

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 1

EQA round: TE2/17 - Trace Elements

Dead line: 31.10.2017

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							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
Set of samples 1 (plasma)														
(350) Zn - plasma														
— Samples and groups	[µmol/L]				18							18	17	94%
Sample A1		15,3	1,7	11	18	CVE	15,7	0,83	25%	11,7	19,7	18	17	94%
(1) F-AAS		15,3	1,8	12	10	0						10		
(5) Spectrophotometry		15,3	2,2	15	8	0						8		
Sample B1		26,7	1,6	6,1	18	CVE	26,4	1,2	25%	19,8	33	18	18	100%
(1) F-AAS		27,1	1,6	5,8	10	0						10		
(5) Spectrophotometry		25,6	2,9	11	8	0						8		
(351) Cu - plasma														
— Samples and groups	[µmol/L]				18							18	17	94%
Sample A1		10,5	1,1	11	18	CVE	11	0,51	25%	8,25	13,8	18	17	94%
(1) F-AAS		10,4	1,8	17	4	0						4		
(2) ET-AAS		10,9	0,59	5,4	6	0						6		
(5) Spectrophotometry		9,93	1,8	18	8	0						8		
Sample B1		16,3	1,8	11	18	CVE	17,4	0,75	25%	13	21,8	18	17	94%
(1) F-AAS		15,5	2,9	18	4	0						4		
(2) ET-AAS		16,9	0,52	3,1	6	0						6		
(5) Spectrophotometry		15,6	3,2	20	8	0						8		
(352) Mn - plasma														
— Samples and groups	[nmol/L]				2							2	2	100%
Sample A1		126	10	8,1	2	CVE	129	11	25%	96,7	162	2	2	100%
(2) ET-AAS		126	10	8,1	2	0						2		
Sample B1		326	15	4,5	2	CVE	344	18	25%	258	430	2	2	100%
(2) ET-AAS		326	15	4,5	2	0						2		
(355) Se - plasma														
— Samples and groups	[µmol/L]				6							6	5	83%
Sample A1		0,255	0,067	26	6	CVE	0,143	0,014	asym.	0,107	0,4	6	5	83%
(2) ET-AAS		0,230	0,03	13	5	0						5		
(4) Hydride AAS		1,01			1	0						1		
Sample B1		1,33	0,22	17	6	CVE	1,32	0,061	25%	0,99	1,65	6	6	100%
(2) ET-AAS		1,26	0,12	9,4	5	0						5		
(4) Hydride AAS		1,51			1	0						1		
(357) Cr - plasma														
— Samples and groups	[nmol/L]				1							1	1	100%
Sample A1		341			1	CVE	287	15	25%	215	359	1	1	100%
(2) ET-AAS		341			1	0						1		
Sample B1		749			1	CVE	669	29	25%	501	837	1	1	100%
(2) ET-AAS		749			1	0						1		
(361) Al - plasma														
— Samples and groups	[µmol/L]				2							2	2	100%
Sample A1		1,85	0,10	5,4	2	CVE	1,55	0,16	30%	1,08	2,02	2	2	100%
(2) ET-AAS		1,85	0,10	5,4	2	0						2		
Sample B1		2,47	0,12	4,7	2	CVE	2,13	0,18	25%	1,59	2,67	2	2	100%
(2) ET-AAS		2,47	0,12	4,7	2	0						2		
Set of samples 2 (blood)														
(353) Cd - blood														
— Samples and groups	[nmol/L]				2							2	1	50%
Sample A2		17,6	0,71	4,0	2	CVE	18,7	0,89	25%	14	23,4	2	2	100%
(2) ET-AAS		18,4			1	0						1		
(7) ICP MS, ICP OES		16,9			1	0						1		
Sample B2		9,44	1,7	18	2	CVE	7,38	0,62	25%	5,53	9,23	2	1	50%
(2) ET-AAS		7,77			1	0						1		
(7) ICP MS, ICP OES		11,1			1	0						1		
(354) Pb - blood														
— Samples and groups	[nmol/L]				5							5	5	100%
Sample A2		489	31	6,4	5	CVE	492	23	25%	369	615	5	5	100%
(2) ET-AAS		495	28	5,6	3	0						3		
(3) Electrochemical m.		468			1	0						1		
(7) ICP MS, ICP OES		481			1	0						1		
Sample B2		147	6,0	4,1	5	CVE	140	7,8	25%	105	175	5	5	100%

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(354) Pb - blood					5							5	5	100%
Samples and groups	[nmol/L]													
Sample B2		147	6,0	4,1	5	CVE	140	7,8	25%	105	175	5	5	100%
(2) ET-AAS		144	17	12	3	0						3		
(3) Electrochemical m.		143			1	0						1		
(7) ICP MS, ICP OES		143			1	0						1		
(356) Hg - blood					2							2	2	100%
Samples and groups	[nmol/L]													
Sample A2		29,0	1,4	4,8	2	CVE	28,4	2,0	25%	21,3	35,5	2	2	100%
(2) ET-AAS		30,4			1	0						1		
(99) Another measurement principle		27,6			1	0						1		
Sample B2		4,67	0,33	7,1	2	CVE	3,54	0,35	45%	1,94	5,14	2	2	100%
(2) ET-AAS		4,34			1	0						1		
(99) Another measurement principle		5,00			1	0						1		

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End of report

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