

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 1

EQA round: TE2/18 - Trace Elements

Dead line: 30.10.2018

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 of samples 1 (plasma)															
(350) Zn - plasma	[µmol/L]					17							17	16	94%
Samples and groups															
Sample A1		39,7	3,5	8,7	17	CVE	42,2	1,9	25%	31,6	52,8	17	16	94%	
(1) F-AAS		38,7	3,8	9,8	9	0						9			
(5) Spectrophotometry		39,8	4,7	12	8	0						8			
Sample B1		24,0	2,3	9,4	17	CVE	24,9	1,2	25%	18,6	31,2	17	17	100%	
(1) F-AAS		24,0	1,6	6,6	9	0						9			
(5) Spectrophotometry		25,2	3,4	14	8	0						8			
(351) Cu - plasma	[µmol/L]					18							18	18	100%
Samples and groups															
Sample A1		18,0	1,4	7,8	18	CVE	18,8	1,0	25%	14,1	23,5	18	18	100%	
(1) F-AAS		17,5	1,9	11	4	0						4			
(2) ET-AAS		18,0	1,2	6,8	6	0						6			
(5) Spectrophotometry		20,2	4,0	20	8	0						8			
Sample B1		15,4	1,2	7,8	18	CVE	16	0,73	25%	12	20	18	18	100%	
(1) F-AAS		14,6	1,7	12	4	0						4			
(2) ET-AAS		15,2	0,33	2,2	6	0						6			
(5) Spectrophotometry		15,8	2,1	13	8	0						8			
(352) Mn - plasma	[nmol/L]					2							2	2	100%
Samples and groups															
Sample A1		340	8,8	2,6	2	CVE	355	15	25%	266	444	2	2	100%	
(2) ET-AAS		340	8,8	2,6	2	0						2			
Sample B1		95,5	4,5	4,8	2	CVE	94,6	3,6	25%	70,9	119	2	2	100%	
(2) ET-AAS		95,5	4,5	4,8	2	0						2			
(355) Se - plasma	[µmol/L]					5							5	5	100%
Samples and groups															
Sample A1		1,68	0,074	4,4	5	CVE	1,66	0,080	25%	1,24	2,08	5	5	100%	
(2) ET-AAS		1,77	0,22	13	4	0						4			
(4) Hydride AAS		1,73			1	0						1			
Sample B1		1,07	0,037	3,5	5	CVE	1,09	0,044	25%	0,817	1,37	5	5	100%	
(2) ET-AAS		1,15	0,16	14	4	0						4			
(4) Hydride AAS		1,09			1	0						1			
(357) Cr - plasma	[nmol/L]					1							1	1	100%
Samples and groups															
Sample A1		1560			1	CVE	1470	90	25%	1100	1840	1	1	100%	
(2) ET-AAS		1560			1	0						1			
Sample B1		352			1	CVE	310	19	25%	232	388	1	1	100%	
(2) ET-AAS		352			1	0						1			
(361) Al - plasma	[µmol/L]					2							2	1	50%
Samples and groups															
Sample A1		5,37	0,08	1,5	2	CVE	4,61	0,28	25%	3,45	5,77	2	2	100%	
(2) ET-AAS		5,37	0,08	1,5	2	0						2			
Sample B1		0,765	0,065	8,5	2	CVE	0,615	0,063	25%	0,461	0,769	2	1	50%	
(2) ET-AAS		0,765	0,065	8,5	2	0						2			
Set of samples 2 (blood)															
(353) Cd - blood	[nmol/L]					1							1	1	100%
Samples and groups															
Sample A2		3,76			1	CVE	3,29	0,36	25%	2,46	4,12	1	1	100%	
(2) ET-AAS		3,76			1	0						1			
Sample B2		53,1			1	CVE	52,5	1,8	25%	39,3	65,7	1	1	100%	
(2) ET-AAS		53,1			1	0						1			
(354) Pb - blood	[nmol/L]					5							5	4	80%
Samples and groups															
Sample A2		284	8,9	3,1	5	CVE	291	14	25%	218	364	5	4	80%	
(2) ET-AAS		604	480	80	4	0						4			
(3) Electrochemical m.		277			1	0						1			
Sample B2		1120	8,9	0,79	5	CVE	1140	36	25%	855	1430	5	4	80%	
(2) ET-AAS		1510	580	38	4	0						4			
(3) Electrochemical m.		1060			1	0						1			

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 1

EQA round: TE2/18 - Trace Elements

Dead line: 30.10.2018

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}
(356) Hg - blood					1						1	1	100%
Samples and groups	[nmol/L]												
Sample A2		3,64			1	CVE	4,09	0,40	25%	3,06	5,12	1	1 100%
(2) ET-AAS		3,64			1	0						1	
Sample B2		33,4			1	CVE	31,9	3,0	25%	23,9	39,9	1	1 100%
(2) ET-AAS		33,4			1	0						1	

st_kn_p

End of report

Printed: 06.11.2018