Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: TE2/20 - Trace Elements

Deadline: 17.11.2020

RoM = robust average
SD = standard deviation
CV = coefficient of variation
Ntot = total number of the participants
Nout = number of results excluded before calculation

AV = assigned value
CRV = certified reference value
RV = reference value
CVE = consensus value from experts
CVP = consensus value from all participants
CVPG = consensus value from participants groups
U_{AV} = expanded uncertainty of the assigned value (k = 2)

Dmax = acceptable percent difference
LL = lower limit
UL = upper limit
Neva = number of evaluated participants
Nsuc = number of successful participants
Srel = success (relative)

Test	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
Set 1 (plasma)															
(361) Al (aluminium)	[µmol/L]				1								1	1	100%
Samples and groups															
Sample A1		0,430			1		CVE	0,46	0,041	25%	0,345	0,575	1	1	100%
Other					1	0	1x 2						1		
Sample B1		2,07			1		CVE	2,06	0,096	25%	1,54	2,58	1	1	100%
Other					1	0	1x 2						1		
(357) Cr (chromium)	[nmol/L]				1								1	1	100%
Samples and groups															
Sample A1		153			1		CVE	148	7,7	25%	111	185	1	1	100%
Other					1	0	1x 2						1		
Sample B1		494			1		CVE	544	25	25%	408	680	1	1	100%
Other					1	0	1x 2						1		
(351) Cu (copper)	[µmol/L]				18								18	17	94%
Samples and groups															
Sample A1		13,9	1,8	13	18		CVE	14,7	0,51	25%	11	18,4	18	18	100%
(2) ET-AAS		14,4	0,44	3,1	5	0							5		
(5) Spectrophotometry		13,5	2,1	16	10	0							10		
Other					3	0	3x 1						3		
Sample B1		18,6	2,2	12	18		CVE	19,8	0,69	25%	14,8	24,8	18	17	94%
(2) ET-AAS		19,5	0,44	2,3	5	0							5		
(5) Spectrophotometry		17,9	2,8	16	10	0							10		
Other					3	0	3x 1						3		
(359) Mg (magnesium)	[mmol/L]				1								1	1	100%
Samples and groups															
Sample A1		0,790			1		CVE	0,782	0,021	25%	0,586	0,978	1	1	100%
Other					1	0	1x 1						1		
Sample B1		0,960			1		CVE	0,967	0,021	25%	0,725	1,21	1	1	100%
Other					1	0	1x 1						1		
(352) Mn (manganese)	[nmol/L]				3								3	2	67%
Samples and groups															
Sample A1		54,0	11	20	3		CVE	67,3	5,5	25%	50,4	84,2	3	2	67%
Other					3	0	3x 2						3		
Sample B1		369	39	10	3		CVE	419	15	25%	314	524	3	3	100%
Other					3	0	3x 2						3		
(355) Se (selenium)	[µmol/L]				4								4	4	100%
Samples and groups															
Sample A1		1,13	0,13	11	4		CVE	1,2	0,065	25%	0,9	1,5	4	4	100%
Other					4	0	3x 2, 1x 4						4		
Sample B1		1,64	0,20	12	4		CVE	1,74	0,089	25%	1,3	2,18	4	4	100%
Other					4	0	3x 2, 1x 4						4		
(350) Zn (zinc)	[µmol/L]				17								17	16	94%
Samples and groups															
Sample A1		11,1	1,3	12	17		CVE	11,6	0,64	25%	8,7	14,5	17	16	94%
(1) F-AAS		10,5	2,2	21	8	0							8		
(5) Spectrophotometry		11,4	1,1	9,9	9	0							9		
Sample B1		15,9	1,4	8,6	17		CVE	17,2	0,86	25%	12,9	21,5	17	16	94%
(1) F-AAS		15,6	2,4	16	8	0							8		
(5) Spectrophotometry		16,1	0,30	1,8	9	0							9		

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Test	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
Set 2 (blood)															
(353) Cd (cadmium)	[nmol/L]				1								1	1	100%
Samples and groups															
Sample A2		38,3			1		CVE	35,6	1,8	25%	26,7	44,5	1	1	100%
Other					1	0	1x 2						1		
Sample B2		103			1		CVE	115	5,3	25%	86,2	144	1	1	100%
Other					1	0	1x 2						1		
(356) Hg (mercury)	[nmol/L]				1								1	1	100%
Samples and groups															
Sample A2		23,4			1		CVE	23,9	1,5	25%	17,9	29,9	1	1	100%
Other					1	0	1x 2						1		
Sample B2		86,7			1		CVE	80,8	5,0	25%	60,6	101	1	1	100%
Other					1	0	1x 2						1		
(352) Mn (manganese)	[nmol/L]				1								1	1	100%
Samples and groups															
Sample A2		198			1		CVE	231	13	25%	173	289	1	1	100%
Other					1	0	1x 2						1		
Sample B2		584			1		CVE	582	27	25%	436	728	1	1	100%
Other					1	0	1x 2						1		
(354) Pb (lead)	[nmol/L]				5								5	5	100%
Samples and groups															
Sample A2		732	26	3,6	5		CVE	722	25	25%	541	903	5	5	100%
Other					5	0	4x 2, 1x 3						5		
Sample B2		1600	220	14	5		CVE	1690	64	25%	1260	2120	5	5	100%
Other					5	0	4x 2, 1x 3						5		

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End of report

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