Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: CSFB2/21 - Cerebrospinal Fluid Analysis

Deadline: 29.11.2021

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 / Samples and groups	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability: AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(330) Total protein	[mg/L]				99							99	96	97%
Sample A		305	44	14	99		CVP 305	11	29%	216	394	99	96	97%
(2) Pyrogallol red		344	42	12	39	0						39		
(4) Turbidimetry		280	18	6,3	54	0						54		
Other					6	0						6		
							4x 1, 2x 99							
Sample B		604	55	9,1	99		CVP 604	13	27%	440	768	99	99	100%
(2) Pyrogallol red		650	33	5,1	39	0						39		
(4) Turbidimetry		575	33	5,8	54	0						54		
Other					6	0						6		
							4x 1, 2x 99							
(331) Glucose	[mmol/L]				99							99	99	100%
Sample A		3,36	0,11	3,3	99		CVP 3,36	0,028	18%	2,75	3,97	99	99	100%
(1) GOD photometry		3,42	0,13	3,9	16	0						16		
(3) Method with hexokinase		3,35	0,11	3,2	80	0						80		
Other					3	0						3		
							3x 2							
Sample B		1,91	0,067	3,5	99		CVP 1,91	0,017	18%	1,56	2,26	99	99	100%
(1) GOD photometry		1,95	0,11	5,7	16	0						16		
(3) Method with hexokinase		1,90	0,055	2,9	80	0						80		
Other					3	0						3		
							3x 2							
(333) Albumin	[mg/L]				76							76	75	99%
Sample A		195	15	7,7	76		CVP 195	4,2	23%	150	240	76	76	100%
(1) Immunoturbidimetry		190	12	6,4	53	0						53		
(2) Immunonephelometry		208	12	5,7	22	0						22		
Other					1	0						1		
							1x 99							
Sample B		390	29	7,5	76		CVP 390	8,2	23%	300	480	76	75	99%
(1) Immunoturbidimetry		382	25	6,5	53	0						53		
(2) Immunonephelometry		410	25	6,0	22	0						22		
Other					1	0						1		
							1x 99							
(334) IgG	[mg/L]				45							45	42	93%
Sample A		32,6	2,5	7,8	45		CVP 32,6	0,93	24%	24,7	40,5	45	43	96%
(2) Immunoturbidimetry		31,4	2,9	9,3	23	0						23		
(3) Immunonephelometry		33,6	1,5	4,5	22	0						22		
Sample B		69,8	5,0	7,2	45		CVP 69,8	1,8	24%	53	86,6	45	44	98%
(2) Immunoturbidimetry		68,2	5,4	7,9	23	0						23		
(3) Immunonephelometry		71,4	3,5	4,9	22	0						22		
(335) IgA	[mg/L]				22							22	20	91%
Sample A		5,98	0,40	6,7	22		CVP 5,98	0,21	32%	4,06	7,9	22	21	95%
(3) Immunonephelometry		5,92	0,40	6,8	19	0						19		
Other					3	0						3		
							3x 2							
Sample B		9,59	0,77	8,1	22		CVP 9,59	0,40	32%	6,52	12,7	22	21	95%
(3) Immunonephelometry		9,46	0,70	7,4	19	0						19		
Other					3	0						3		
							3x 2							
(336) IgM	[mg/L]				30							30	27	90%
Sample A		1,94	0,21	11	30		CVP 1,94	0,093	31%	1,33	2,55	30	28	93%
(2) Immunoturbidimetry		1,95	0,29	15	9	0						9		
(3) Immunonephelometry		1,94	0,18	9,1	21	0						21		
Sample B		61,8	5,7	9,3	30		CVP 61,8	2,6	31%	42,6	81	30	29	97%
(2) Immunoturbidimetry		60,5	7,2	12	9	0						9		
(3) Immunonephelometry		62,1	5,0	8,1	21	0						21		
(338) Lactate	[mmol/L]				96							96	93	97%
Sample A		2,08	0,10	5,0	96		CVP 2,08	0,026	20%	1,66	2,5	96	96	100%

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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}
(338) Lactate	[mmol/L]				96								96	93	97%
Samples and groups															
Sample A		2,08	0,10	5,0	96		CVP	2,08	0,026	20%	1,66	2,5	96	96	100%
(1) Enzymatic UV method		2,09	0,094	4,5	40	0							40		
(2) Sensor measurement		2,04	0,059	2,9	5	0							5		
(4) Photometric enzyme method		2,08	0,11	5,3	50	0							50		
Other					1	0							1		
						1x 99									
Sample B		7,51	0,32	4,2	96		CVP	7,51	0,079	20%	6	9,02	96	93	97%
(1) Enzymatic UV method		7,49	0,27	3,7	40	0							40		
(2) Sensor measurement		7,64	0,24	3,1	5	0							5		
(4) Photometric enzyme method		7,52	0,35	4,7	50	0							50		
Other					1	0							1		
						1x 99									

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End of report

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