

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 5

EQA round: CSFB2/17 - Cerebrospinal Fluid Analysis

Dead line: 13.11.2017

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}
(330) Total protein					93							93	91	98%
Samples and groups	[mg/L]													
Sample A		919	46	5,0	93	CVP	919	12	27%	670	1170	93	92	99%
(1) Biuret		945	22	2,4	5	0						5		
(2) Pyrogallol red		922	57	6,2	41	0						41		
(4) Turbidimetry		916	34	3,8	45	0						45		
Other					2	0						2		
														2x 99
Sample B		432	31	7,1	93	CVP	432	7,8	27%	315	549	93	91	98%
(1) Biuret		422	27	6,5	5	0						5		
(2) Pyrogallol red		446	40	9,0	41	0						41		
(4) Turbidimetry		424	21	4,9	45	0						45		
Other					2	0						2		
														2x 99
(331) Glucose					93							93	90	97%
Samples and groups	[mmol/L]													
Sample A		1,68	0,064	3,8	93	CVP	1,68	0,016	18%	1,37	1,99	93	90	97%
(1) GOD photometry		1,66	0,065	3,9	24	0						24		
(2) GOD electrochemical		1,67	0,059	3,6	5	0						5		
(3) Method with hexokinase		1,69	0,057	3,4	64	0						64		
Sample B		3,37	0,11	3,4	93	CVP	3,37	0,029	18%	2,76	3,98	93	91	98%
(1) GOD photometry		3,36	0,13	3,9	24	0						24		
(2) GOD electrochemical		3,27	0,14	4,3	5	0						5		
(3) Method with hexokinase		3,38	0,10	3,1	64	0						64		
(333) Albumin					71							71	70	99%
Samples and groups	[mg/L]													
Sample A		354	21	6,1	71	CVP	354	6,2	23%	272	436	71	71	100%
(1) Immunoturbidimetry		347	21	6,0	50	0						50		
(2) Immunonephelometry		368	21	5,8	21	0						21		
Sample B		263	18	6,7	71	CVP	263	5,1	23%	202	324	71	70	99%
(1) Immunoturbidimetry		258	16	6,2	50	0						50		
(2) Immunonephelometry		274	17	6,0	21	0						21		
(334) IgG					41							41	39	95%
Samples and groups	[mg/L]													
Sample A		434	22	5,2	41	CVP	434	8,6	24%	329	539	41	41	100%
(2) Immunoturbidimetry		436	35	8,1	20	0						20		
(3) Immunonephelometry		434	16	3,8	21	0						21		
Sample B		64,2	4,9	7,7	41	CVP	64,2	1,9	24%	48,7	79,7	41	39	95%
(2) Immunoturbidimetry		62,0	5,0	8,1	20	0						20		
(3) Immunonephelometry		66,0	4,1	6,2	21	0						21		
(335) IgA					21							21	21	100%
Samples and groups	[mg/L]													
Sample A		23,3	1,6	6,8	21	CVP	23,3	0,84	32%	15,8	30,8	21	21	100%
(3) Immunonephelometry		23,1	1,2	5,2	18	0						18		
Other					3	0						3		
														3x 2
Sample B		10,9	0,70	6,4	21	CVP	10,9	0,37	32%	7,41	14,4	21	21	100%
(3) Immunonephelometry		10,9	0,57	5,3	18	0						18		
Other					3	0						3		
														3x 2
(336) IgM					26							26	26	100%
Samples and groups	[mg/L]													
Sample A		20,1	1,3	6,7	26	CVP	20,1	0,64	31%	13,8	26,4	26	26	100%
(2) Immunoturbidimetry		20,0	2,1	10	7	0						7		
(3) Immunonephelometry		20,1	1,2	5,9	19	0						19		
Sample B		4,90	0,41	8,3	26	CVP	4,9	0,20	31%	3,38	6,42	26	26	100%
(2) Immunoturbidimetry		4,70	0,44	9,5	7	0						7		
(3) Immunonephelometry		4,98	0,32	6,4	19	0						19		
(338) Lactate					89							89	86	97%
Samples and groups	[mmol/L]													
Sample A		4,04	0,17	4,2	89	CVP	4,04	0,044	20%	3,23	4,85	89	86	97%
(1) Enzymatic UV method		4,03	0,19	4,6	44	0						44		
(2) Sensor measurement		3,95	0,36	9,2	6	0						6		
(4) Photometric enzyme method		4,07	0,13	3,2	38	0						38		

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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					89							89	86	97%	
Samples and groups	[mmol/L]														
Sample A		4,04	0,17	4,2	89		CVP	4,04	0,044	20%	3,23	4,85	89	86	97%
Other					1	0							1		
							1x 99								
Sample B		2,06	0,096	4,7	89		CVP	2,06	0,025	20%	1,64	2,48	89	87	98%
(1) Enzymatic UV method		2,04	0,097	4,8	44	0							44		
(2) Sensor measurement		2,01	0,19	9,2	6	0							6		
(4) Photometric enzyme method		2,08	0,085	4,1	38	0							38		
Other					1	0							1		
							1x 99								

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End of report

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