

Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of groups n = 5

EQA round: CSFB1/18 - Cerebrospinal Fluid Analysis

Dead line: 03.04.2018

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}	
(330) Total protein					93							93	92	99%	
Samples and groups	[mg/L]														
Sample A		434	22	5,2	93	CVP	434	5,7	27%	316	552	93	93	100%	
(1) Abbott		430	15	3,4	9	0						9			
(12) Beckman Coulter		425	7,4	1,7	5	0						5			
(58) Beckman Coulter (Olympus)		458	26	5,7	14	0						14			
(60) Roche		430	18	4,2	37	0						37			
(179) Siemens (Bayer)		404	0,740	1,18	5	0						5			
Other					23	0						23			
							2x 46, 3x 49, 1x 75, 4x 77, 1x 85, 1x 115, 3x 149, 2x 158, 2x 166, 3x 178, 1x 998						93	92	99%
Sample B		922	44	4,7	93	CVP	922	11	27%	673	1180	93	92	99%	
(1) Abbott		913	39	4,3	9	0						9			
(12) Beckman Coulter		900	15	1,6	5	0						5			
(58) Beckman Coulter (Olympus)		947	39	4,1	14	0						14			
(60) Roche		927	32	3,4	37	0						37			
(179) Siemens (Bayer)		905	8,90	0,98	5	0						5			
Other					23	0						23			
							2x 46, 3x 49, 1x 75, 4x 77, 1x 85, 1x 115, 3x 149, 2x 158, 2x 166, 3x 178, 1x 998						93	93	100%
(331) Glucose					93							93	93	100%	
Samples and groups	[mmol/L]														
Sample A		3,36	0,11	3,3	93	CVP	3,36	0,028	18%	2,75	3,97	93	93	100%	
(1) Abbott		3,35	0,17	5,1	7	0						7			
(12) Beckman Coulter		3,27	0,11	3,4	5	0						5			
(46) Erba Lachema		3,37	0,069	2,1	10	0						10			
(58) Beckman Coulter (Olympus)		3,40	0,10	3,0	16	0						16			
(60) Roche		3,38	0,086	2,6	36	0						36			
(179) Siemens (Bayer)		3,35	0,074	2,2	5	0						5			
Other					14	0						14			
							1x 5, 4x 49, 3x 149, 2x 158, 1x 166, 2x 178, 1x 187						93	93	100%
Sample B		1,68	0,065	3,9	93	CVP	1,68	0,017	18%	1,37	1,99	93	93	100%	
(1) Abbott		1,66	0,082	4,9	7	0						7			
(12) Beckman Coulter		1,64	0,052	3,2	5	0						5			
(46) Erba Lachema		1,67	0,057	3,4	10	0						10			
(58) Beckman Coulter (Olympus)		1,70	0,054	3,2	16	0						16			
(60) Roche		1,70	0,043	2,5	36	0						36			
(179) Siemens (Bayer)		1,65	0,074	4,5	5	0						5			
Other					14	0						14			
							1x 5, 4x 49, 3x 149, 2x 158, 1x 166, 2x 178, 1x 187						93	93	100%
(333) Albumin					71							71	71	100%	
Samples and groups	[mg/L]														
Sample A		263	14	5,4	71	CVP	263	4,1	23%	202	324	71	71	100%	
(1) Abbott		269	5,2	1,9	5	0						5			
(12) Beckman Coulter		262	7,4	2,8	9	0						9			
(58) Beckman Coulter (Olympus)		259	3,8	1,5	9	0						9			
(60) Roche		264	13	4,8	18	0						18			
(149) Siemens (Dade)		273	16	5,7	12	0						12			
(179) Siemens (Bayer)		276	47	17	7	0						7			
Other					11	0						11			
							2x 28, 2x 49, 1x 75, 2x 91, 2x 152, 2x 178						71	71	100%
Sample B		355	23	6,3	71	CVP	355	6,6	23%	273	437	71	71	100%	
(1) Abbott		369	8,9	2,4	5	0						5			
(12) Beckman Coulter		350	5,9	1,7	9	0						9			
(58) Beckman Coulter (Olympus)		346	10	2,9	9	0						9			
(60) Roche		361	20	5,5	18	0						18			
(149) Siemens (Dade)		365	24	6,6	12	0						12			
(179) Siemens (Bayer)		375	63	17	7	0						7			
Other					11	0						11			
							2x 28, 2x 49, 1x 75, 2x 91, 2x 152, 2x 178						71	71	100%
(334) IgG					42							42	40	95%	
Samples and groups	[mg/L]														
Sample A		64,2	4,2	6,5	42	CVP	64,2	1,6	24%	48,7	79,7	42	40	95%	
(12) Beckman Coulter		67,3	3,7	5,5	10	0						10			
(60) Roche		62,4	5,1	8,2	9	0						9			
(149) Siemens (Dade)		64,6	3,7	5,7	11	0						11			
Other					12	0						12			
							1x 28, 4x 58, 3x 91, 1x 178, 3x 179						42	41	98%
Sample B		429	21	4,9	42	CVP	429	7,9	24%	326	532	42	41	98%	

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(334) IgG					42								42	40	95%
Samples and groups	[mg/L]														
Sample B		429	21	4,9	42		CVP	429	7,9	24%	326	532	42	41	98%
(12) Beckman Coulter		443	13	3,0	10	0							10		
(60) Roche		427	14	3,4	9	0							9		
(149) Siemens (Dade)		420	13	3,1	11	0							11		
Other					12	0							12		
								1x 28, 4x 58, 3x 91, 1x 178, 3x 179							
(335) IgA					22								22	21	95%
Samples and groups	[mg/L]														
Sample A		11,2	0,85	7,6	22		CVP	11,2	0,45	32%	7,61	14,8	22	22	100%
(12) Beckman Coulter		11,2	0,41	3,6	6	0							6		
(149) Siemens (Dade)		11,2	0,93	8,3	11	0							11		
Other					5	0							5		
								1x 1, 1x 58, 1x 91, 2x 179							
Sample B		23,4	3,1	13	22		CVP	23,4	1,6	32%	15,9	30,9	22	21	95%
(12) Beckman Coulter		25,6	0,67	2,6	6	0							6		
(149) Siemens (Dade)		21,7	2,3	11	11	0							11		
Other					5	0							5		
								1x 1, 1x 58, 1x 91, 2x 179							
(336) IgM					28								28	28	100%
Samples and groups	[mg/L]														
Sample A		5,09	0,42	8,2	28		CVP	5,09	0,19	31%	3,51	6,67	28	28	100%
(12) Beckman Coulter		5,35	0,37	6,9	8	0							8		
(149) Siemens (Dade)		4,93	0,46	9,4	11	0							11		
Other					9	0							9		
								1x 1, 2x 58, 2x 60, 2x 91, 2x 179							
Sample B		20,6	1,2	5,8	28		CVP	20,6	0,55	31%	14,2	27	28	28	100%
(12) Beckman Coulter		20,1	0,67	3,3	8	0							8		
(149) Siemens (Dade)		21,2	1,1	5,3	11	0							11		
Other					9	0							9		
								1x 1, 2x 58, 2x 60, 2x 91, 2x 179							
(338) Lactate					89								89	88	99%
Samples and groups	[mmol/L]														
Sample A		2,05	0,095	4,6	89		CVP	2,05	0,025	20%	1,64	2,46	89	88	99%
(1) Abbott		2,09	0,082	3,9	7	0							7		
(49) BioVendor		2,04	0,21	10	8	0							8		
(58) Beckman Coulter (Olympus)		2,02	0,035	1,7	13	0							13		
(60) Roche		2,09	0,069	3,3	39	0							39		
Other					22	0							22		
								3x 12, 1x 40, 1x 61, 3x 75, 1x 116, 1x 121, 3x 149, 2x 178, 4x 179, 2x 187, 1x 188							
Sample B		4,06	0,18	4,4	89		CVP	4,06	0,046	20%	3,24	4,88	89	88	99%
(1) Abbott		4,00	0,19	4,6	7	0							7		
(49) BioVendor		3,95	0,27	7,0	8	0							8		
(58) Beckman Coulter (Olympus)		4,04	0,083	2,1	13	0							13		
(60) Roche		4,15	0,12	2,9	39	0							39		
Other					22	0							22		
								3x 12, 1x 40, 1x 61, 3x 75, 1x 116, 1x 121, 3x 149, 2x 178, 4x 179, 2x 187, 1x 188							

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End of report

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