

## Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of the groups n = 5

## EQA round: CSFB1/21 - Cerebrospinal Fluid Analysis

Deadline: 30.03.2021

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 the 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 <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]						Comparability								
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(330) Total protein</b>					98							98	97	99%	
Samples and groups	[mg/L]														
<b>Sample A</b>		390	31	7,9	98	CVP	390	7,6	27%	284	496	98	97	99%	
(1) Abbott		386	21	5,4	12	0						12			
(58) Beckman Coulter (AU)		410	20	4,8	16	0						16			
(60) Roche		373	23	6,1	37	0						37			
(162) Siemens (Atellica)		417	27	6,6	5	0						5			
(179) Siemens		408	15	3,6	6	0						6			
Other					22	0						22			
							2x 12, 2x 46, 2x 49, 1x 75, 4x 77, 1x 85, 1x 115, 4x 149, 1x 158, 1x 166, 2x 178, 1x 998						98	97	99%
<b>Sample B</b>		872	46	5,3	98	CVP	872	11	27%	636	1110	98	98	100%	
(1) Abbott		863	41	4,8	12	0						12			
(58) Beckman Coulter (AU)		924	35	3,8	16	0						16			
(60) Roche		873	34	3,9	37	0						37			
(162) Siemens (Atellica)		855	20	2,3	5	0						5			
(179) Siemens		861	19	2,2	6	0						6			
Other					22	0						22			
							2x 12, 2x 46, 2x 49, 1x 75, 4x 77, 1x 85, 1x 115, 4x 149, 1x 158, 1x 166, 2x 178, 1x 998						98	98	100%
<b>(331) Glucose</b>					98							98	98	100%	
Samples and groups	[mmol/L]														
<b>Sample A</b>		3,53	0,098	2,8	98	CVP	3,53	0,024	18%	2,89	4,17	98	98	100%	
(1) Abbott		3,48	0,10	2,9	10	0						10			
(46) Erba Lachema		3,47	0,096	2,8	8	0						8			
(58) Beckman Coulter (AU)		3,57	0,14	3,8	18	0						18			
(60) Roche		3,54	0,063	1,8	36	0						36			
(162) Siemens (Atellica)		3,54	0,052	1,5	6	0						6			
(179) Siemens		3,55	0,082	2,3	6	0						6			
Other					14	0						14			
							1x 5, 2x 12, 3x 49, 4x 149, 2x 158, 1x 178, 1x 187						98	98	100%
<b>Sample B</b>		1,68	0,06	3,6	98	CVP	1,68	0,015	18%	1,37	1,99	98	98	100%	
(1) Abbott		1,63	0,056	3,4	10	0						10			
(46) Erba Lachema		1,66	0,067	4,0	8	0						8			
(58) Beckman Coulter (AU)		1,70	0,074	4,3	18	0						18			
(60) Roche		1,69	0,022	1,3	36	0						36			
(162) Siemens (Atellica)		1,70	0,022	1,3	6	0						6			
(179) Siemens		1,69	0,022	1,3	6	0						6			
Other					14	0						14			
							1x 5, 2x 12, 3x 49, 4x 149, 2x 158, 1x 178, 1x 187						98	98	100%
<b>(333) Albumin</b>					75							75	73	97%	
Samples and groups	[mg/L]														
<b>Sample A</b>		238	18	7,7	75	CVP	238	5,2	23%	183	293	75	73	97%	
(1) Abbott		245	19	7,6	7	0						7			
(12) Beckman Coulter		247	10	4,2	7	0						7			
(58) Beckman Coulter (AU)		235	10	4,4	11	0						11			
(60) Roche		232	7,5	3,2	18	0						18			
(149) Siemens (Dade, BN, Dimension)		248	20	8,2	11	0						11			
(179) Siemens		226	17	7,6	7	0						7			
Other					14	0						14			
							1x 28, 1x 29, 2x 49, 1x 75, 2x 91, 1x 152, 4x 162, 1x 178, 1x 999						75	73	97%
<b>Sample B</b>		359	26	7,1	75	CVP	359	7,2	23%	276	442	75	74	99%	
(1) Abbott		385	19	5,0	7	0						7			
(12) Beckman Coulter		348	13	3,6	7	0						7			
(58) Beckman Coulter (AU)		369	24	6,5	11	0						11			
(60) Roche		351	12	3,4	18	0						18			
(149) Siemens (Dade, BN, Dimension)		374	23	6,1	11	0						11			
(179) Siemens		345	35	10	7	0						7			
Other					14	0						14			
							1x 28, 1x 29, 2x 49, 1x 75, 2x 91, 1x 152, 4x 162, 1x 178, 1x 999						75	74	99%
<b>(334) IgG</b>					45							45	45	100%	
Samples and groups	[mg/L]														
<b>Sample A</b>		55,3	4,8	8,7	45	CVP	55,3	1,8	24%	42	68,6	45	45	100%	
(12) Beckman Coulter		60,4	1,8	2,9	7	0						7			
(60) Roche		52,0	2,4	4,6	11	0						11			
(91) Binding Site		59,0	1,6	2,8	5	0						5			
(149) Siemens (Dade, BN, Dimension)		56,3	3,8	6,8	10	0						10			
Other					12	0						12			
							1x 28, 1x 29, 4x 58, 1x 162, 1x 178, 4x 179						45	45	100%
<b>Sample B</b>		402	33	8,3	45	CVP	402	12	24%	305	499	45	45	100%	

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Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability						N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL					
<b>(334) IgG</b>					45								45	45	100%	
Samples and groups	[mg/L]															
<b>Sample B</b>		402	33	8,3	45		CVP	402	12	24%	305	499	45	45	100%	
(12) Beckman Coulter		418	36	8,7	7	0							7			
(60) Roche		404	18	4,4	11	0							11			
(91) Binding Site		439	6,1	1,4	5	0							5			
(149) Siemens (Dade, BN, Dimension)		384	16	4,3	10	0							10			
Other					12	0							12			
								1x 28, 1x 29, 4x 58, 1x 162, 1x 178, 4x 179								
<b>(335) IgA</b>					22								22	22	100%	
Samples and groups	[mg/L]															
<b>Sample A</b>		10,4	0,67	6,4	22		CVP	10,4	0,35	32%	7,07	13,8	22	22	100%	
(12) Beckman Coulter		10,8	0,22	2,1	6	0							6			
(149) Siemens (Dade, BN, Dimension)		10,1	0,70	6,9	10	0							10			
Other					6	0							6			
								1x 58, 2x 91, 3x 179								
<b>Sample B</b>		17,8	2,4	13	22		CVP	17,8	1,2	32%	12,1	23,5	22	22	100%	
(12) Beckman Coulter		19,7	0,59	3,0	6	0							6			
(149) Siemens (Dade, BN, Dimension)		16,4	1,3	8,0	10	0							10			
Other					6	0							6			
								1x 58, 2x 91, 3x 179								
<b>(336) IgM</b>					30								30	29	97%	
Samples and groups	[mg/L]															
<b>Sample A</b>		3,08	0,39	13	30		CVP	3,08	0,18	31%	2,12	4,04	30	29	97%	
(12) Beckman Coulter		3,52	0,067	1,9	6	0							6			
(149) Siemens (Dade, BN, Dimension)		2,94	0,29	9,9	10	0							10			
Other					14	0							14			
								1x 29, 1x 58, 4x 60, 4x 91, 1x 162, 3x 179								
<b>Sample B</b>		14,8	1,6	11	30		CVP	14,8	0,73	31%	10,2	19,4	30	30	100%	
(12) Beckman Coulter		12,8	0,59	4,6	6	0							6			
(149) Siemens (Dade, BN, Dimension)		15,3	1,2	7,6	10	0							10			
Other					14	0							14			
								1x 29, 1x 58, 4x 60, 4x 91, 1x 162, 3x 179								
<b>(338) Lactate</b>					95								95	95	100%	
Samples and groups	[mmol/L]															
<b>Sample A</b>		2,00	0,09	4,5	95		CVP	2,0	0,023	20%	1,6	2,4	95	95	100%	
(1) Abbott		1,99	0,074	3,7	8	0							8			
(49) BioVendor		1,99	0,21	10	7	0							7			
(58) Beckman Coulter (AU)		1,96	0,068	3,5	15	0							15			
(60) Roche		2,04	0,04	2,0	39	0							39			
(162) Siemens (Atellica)		1,90	0,15	7,8	6	0							6			
(179) Siemens		1,94	0,052	2,7	6	0							6			
Other					14	0							14			
								1x 12, 1x 61, 2x 75, 1x 116, 4x 149, 1x 178, 2x 187, 2x 188								
<b>Sample B</b>		3,95	0,15	3,7	95		CVP	3,95	0,037	20%	3,16	4,74	95	95	100%	
(1) Abbott		3,85	0,082	2,1	8	0							8			
(49) BioVendor		3,95	0,41	10	7	0							7			
(58) Beckman Coulter (AU)		3,95	0,11	2,8	15	0							15			
(60) Roche		3,97	0,11	2,8	39	0							39			
(162) Siemens (Atellica)		3,95	0,074	1,9	6	0							6			
(179) Siemens		3,95	0,067	1,7	6	0							6			
Other					14	0							14			
								1x 12, 1x 61, 2x 75, 1x 116, 4x 149, 1x 178, 2x 187, 2x 188								

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End of report

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