

## EQA round: CSFB1/23 - Cerebrospinal Fluid Analysis

Deadline: 28.3.2023

Setup: groups - manufacturer of kit; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D <sub>max</sub> = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	UL = upper limit
N <sub>tot</sub> = total number of the results		N <sub>eva</sub> = number of the results assessed
N <sub>out</sub> = number of the results removed before calculation		N <sub>suc</sub> = number of successful results
		S <sub>rel</sub> = relative success

Test Sample Group	[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>(333) Albumin</b>	[mg/L]				73							73	72	99		
<b>Sample A</b>		225	16	7,2	73		CVP	225	4,6	23%	173	277	73	72	99	
(1) Abbott		234	14	6,2	7	0							7			
(58) Beckman Coulter (AU)		226	13	5,6	7	0							7			
(60) Roche		219	7,4	3,4	24	0							24			
(149) Siemens (Dade, BN, Dimension)		229	17	7,6	10	0							10			
(162) Siemens (Atellica)		211	42	20	7	0							7			
(179) Siemens		213	28	13	7	0							7			
Other					11	0							11			
								4x 12, 1x 75, 3x 91, 1x 152, 1x 178, 1x 999								
<b>Sample B</b>		367	24	6,5	73		CVP	367	6,9	23%	282	452	73	73	100	
(1) Abbott		386	30	7,7	7	0							7			
(58) Beckman Coulter (AU)		380	12	3	7	0							7			
(60) Roche		356	13	3,5	24	0							24			
(149) Siemens (Dade, BN, Dimension)		379	22	5,8	10	0							10			
(162) Siemens (Atellica)		344	72	21	7	0							7			
(179) Siemens		351	42	12	7	0							7			
Other					11	0							11			
								4x 12, 1x 75, 3x 91, 1x 152, 1x 178, 1x 999								
<b>(330) Total protein</b>	[mg/L]				98								98	98	100	
<b>Sample A</b>		370	24	6,4	98		CVP	370	5,9	27%	270	470	98	98	100	
(1) Abbott		365	12	3,4	11	0							11			
(58) Beckman Coulter (AU)		385	16	4,1	15	0							15			
(60) Roche		359	18	5,1	43	0							43			
(162) Siemens (Atellica)		388	17	4,4	8	0							8			
Other					21	0							21			
								2x 46, 1x 75, 4x 77, 1x 85, 1x 115, 3x 149, 1x 158, 1x 166, 2x 178, 4x 179, 1x 998								
<b>Sample B</b>		952	43	4,5	98		CVP	952	11	27%	694	1210	98	98	100	
(1) Abbott		963	43	4,4	11	0							11			
(58) Beckman Coulter (AU)		985	46	4,6	15	0							15			
(60) Roche		956	31	3,3	43	0							43			
(162) Siemens (Atellica)		909	14	1,5	8	0							8			
Other					21	0							21			
								2x 46, 1x 75, 4x 77, 1x 85, 1x 115, 3x 149, 1x 158, 1x 166, 2x 178, 4x 179, 1x 998								
<b>(331) Glucose</b>	[mmol/L]				98								98	97	99	
<b>Sample A</b>		3,23	0,097	3	98		CVP	3,23	0,024	18%	2,64	3,82	98	98	100	
(1) Abbott		3,22	0,13	3,9	9	0							9			
(46) Erba Lachema		3,29	0,16	5	7	0							7			
(58) Beckman Coulter (AU)		3,23	0,09	2,8	17	0							17			
(60) Roche		3,24	0,092	2,8	42	0							42			
(162) Siemens (Atellica)		3,25	0,067	2,1	9	0							9			
Other					14	0							14			
								1x 49, 1x 75, 3x 149, 2x 158, 1x 178, 4x 179, 1x 187, 1x 188								
<b>Sample B</b>		1,66	0,053	3,2	98		CVP	1,66	0,013	18%	1,36	1,96	98	97	99	
(1) Abbott		1,64	0,059	3,6	9	0							9			
(46) Erba Lachema		1,67	0,082	4,9	7	0							7			
(58) Beckman Coulter (AU)		1,66	0,045	2,7	17	0							17			
(60) Roche		1,67	0,045	2,7	42	0							42			
(162) Siemens (Atellica)		1,69	0,015	0,88	9	0							9			
Other					14	0							14			
								1x 49, 1x 75, 3x 149, 2x 158, 1x 178, 4x 179, 1x 187, 1x 188								
<b>(335) IgA</b>	[mg/L]				22								22	21	95	
<b>Sample A</b>		9,11	0,98	11	22		CVP	9,11	0,51	32%	6,19	12,1	22	21	95	
(149) Siemens (Dade, BN, Dimension)		9,11	0,52	5,7	9	0							9			
Other					13	0							13			
								4x 12, 1x 58, 3x 91, 2x 162, 3x 179								
<b>Sample B</b>		19,9	2,7	14	22		CVP	19,9	1,4	32%	13,5	26,3	22	21	95	
(149) Siemens (Dade, BN, Dimension)		19,5	1,6	8	9	0							9			
Other					13	0							13			
								4x 12, 1x 58, 3x 91, 2x 162, 3x 179								
<b>(334) IgG</b>	[mg/L]				46								46	46	100	
<b>Sample A</b>		50,9	4	7,8	46		CVP	50,9	1,4	24%	38,6	63,2	46	46	100	
(12) Beckman Coulter		52,4	0,44	0,85	5	0							5			

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Test Sample Group	[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				
(60) Roche		49,1	2,5	5,2	15	0							15		
(91) Binding Site		55,2	3,3	5,9	6	0							6		
(149) Siemens (Dade, BN, Dimension)		52	3,9	7,5	10	0							10		
Other					10	0							10		
							2x 58, 4x 162, 4x 179								
<b>Sample B</b>		469	35	7,5	46		CVP	469	13	24%	356	582	46	46	100
(12) Beckman Coulter		411	10	2,5	5	0							5		
(60) Roche		470	12	2,6	15	0							15		
(91) Binding Site		491	36	7,4	6	0							6		
(149) Siemens (Dade, BN, Dimension)		488	44	9	10	0							10		
Other					10	0							10		
							2x 58, 4x 162, 4x 179								
(336) <b>IgM</b>	[mg/L]				30								30	29	97
<b>Sample A</b>		2,97	0,22	7,5	30		CVP	2,97	0,1	31%	2,04	3,9	30	29	97
(91) Binding Site		3,01	0,13	4,4	5	0							5		
(149) Siemens (Dade, BN, Dimension)		2,98	0,12	4,2	10	0							10		
Other					15	0							15		
							4x 12, 1x 58, 4x 60, 3x 162, 3x 179								
<b>Sample B</b>		15,7	2,3	14	30		CVP	15,7	1	31%	10,8	20,6	30	29	97
(91) Binding Site		14,4	0,25	1,7	5	0							5		
(149) Siemens (Dade, BN, Dimension)		17,4	0,59	3,4	10	0							10		
Other					15	0							15		
							4x 12, 1x 58, 4x 60, 3x 162, 3x 179								
(338) <b>Lactate</b>	[mmol/L]				95								95	94	99
<b>Sample A</b>		1,83	0,093	5,1	95		CVP	1,83	0,023	20%	1,46	2,2	95	94	99
(1) Abbott		1,88	0,03	1,6	8	0							8		
(58) Beckman Coulter (AU)		1,79	0,061	3,4	15	0							15		
(60) Roche		1,88	0,051	2,7	44	0							44		
(162) Siemens (Atellica)		1,68	0,037	2,2	9	0							9		
Other					19	0							19		
							4x 49, 1x 61, 1x 75, 1x 116, 3x 149, 2x 178, 4x 179, 1x 187, 2x 188								
<b>Sample B</b>		3,78	0,14	3,7	95		CVP	3,78	0,035	20%	3,02	4,54	95	94	99
(1) Abbott		3,72	0,12	3,2	8	0							8		
(58) Beckman Coulter (AU)		3,76	0,12	3,3	15	0							15		
(60) Roche		3,83	0,1	2,7	44	0							44		
(162) Siemens (Atellica)		3,66	0,1	2,8	9	0							9		
Other					19	0							19		
							4x 49, 1x 61, 1x 75, 1x 116, 3x 149, 2x 178, 4x 179, 1x 187, 2x 188								