

## Summary statistics - quantitative results

(Groups: measurement principle)

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 <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>					93							93	92	99%
Samples and groups	[mg/L]													
<b>Sample A</b>		434	22	5,2	93	CVP	434	5,7	27%	316	552	93	93	100%
(1) Biuret		412	27	6,5	5	0						5		
(2) Pyrogallol red		441	27	6,1	41	0						41		
(4) Turbidimetry		430	18	4,3	45	0						45		
Other					2	0						2		
														2x 99
<b>Sample B</b>		922	44	4,7	93	CVP	922	11	27%	673	1180	93	92	99%
(1) Biuret		885	37	4,2	5	0						5		
(2) Pyrogallol red		922	50	5,4	41	0						41		
(4) Turbidimetry		926	38	4,1	45	0						45		
Other					2	0						2		
														2x 99
<b>(331) Glucose</b>					93							93	93	100%
Samples and groups	[mmol/L]													
<b>Sample A</b>		3,36	0,11	3,3	93	CVP	3,36	0,028	18%	2,75	3,97	93	93	100%
(1) GOD photometry		3,38	0,11	3,3	22	0						22		
(2) GOD electrochemical		3,26	0,12	3,6	5	0						5		
(3) Method with hexokinase		3,37	0,11	3,1	66	0						66		
<b>Sample B</b>		1,68	0,065	3,9	93	CVP	1,68	0,017	18%	1,37	1,99	93	93	100%
(1) GOD photometry		1,68	0,078	4,6	22	0						22		
(2) GOD electrochemical		1,64	0,052	3,2	5	0						5		
(3) Method with hexokinase		1,69	0,056	3,3	66	0						66		
<b>(333) Albumin</b>					71							71	71	100%
Samples and groups	[mg/L]													
<b>Sample A</b>		263	14	5,4	71	CVP	263	4,1	23%	202	324	71	71	100%
(1) Immunoturbidimetry		260	12	4,6	49	0						49		
(2) Immunonephelometry		273	20	7,4	22	0						22		
<b>Sample B</b>		355	23	6,3	71	CVP	355	6,6	23%	273	437	71	71	100%
(1) Immunoturbidimetry		351	21	6,1	49	0						49		
(2) Immunonephelometry		365	25	6,8	22	0						22		
<b>(334) IgG</b>					42							42	40	95%
Samples and groups	[mg/L]													
<b>Sample A</b>		64,2	4,2	6,5	42	CVP	64,2	1,6	24%	48,7	79,7	42	40	95%
(2) Immunoturbidimetry		62,8	4,0	6,4	19	0						19		
(3) Immunonephelometry		65,3	3,9	5,9	23	0						23		
<b>Sample B</b>		429	21	4,9	42	CVP	429	7,9	24%	326	532	42	41	98%
(2) Immunoturbidimetry		432	24	5,6	19	0						19		
(3) Immunonephelometry		428	21	4,8	23	0						23		
<b>(335) IgA</b>					22							22	21	95%
Samples and groups	[mg/L]													
<b>Sample A</b>		11,2	0,85	7,6	22	CVP	11,2	0,45	32%	7,61	14,8	22	22	100%
(3) Immunonephelometry		11,1	0,72	6,5	19	0						19		
Other					3	0						3		
														3x 2
<b>Sample B</b>		23,4	3,1	13	22	CVP	23,4	1,6	32%	15,9	30,9	22	21	95%
(3) Immunonephelometry		22,9	2,8	12	19	0						19		
Other					3	0						3		
														3x 2
<b>(336) IgM</b>					28							28	28	100%
Samples and groups	[mg/L]													
<b>Sample A</b>		5,09	0,42	8,2	28	CVP	5,09	0,19	31%	3,51	6,67	28	28	100%
(2) Immunoturbidimetry		5,15	0,52	10	7	0						7		
(3) Immunonephelometry		5,08	0,38	7,5	21	0						21		
<b>Sample B</b>		20,6	1,2	5,8	28	CVP	20,6	0,55	31%	14,2	27	28	28	100%
(2) Immunoturbidimetry		21,0	2,2	11	7	0						7		
(3) Immunonephelometry		20,6	1,0	5,0	21	0						21		
<b>(338) Lactate</b>					89							89	88	99%
Samples and groups	[mmol/L]													
<b>Sample A</b>		2,05	0,095	4,6	89	CVP	2,05	0,025	20%	1,64	2,46	89	88	99%
(1) Enzymatic UV method		2,05	0,091	4,4	43	0						43		
(2) Sensor measurement		2,13	0,082	3,8	6	0						6		
(4) Photometric enzyme method		2,06	0,092	4,5	39	0						39		

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Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability								
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(338) Lactate</b>					89							89	88	99%	
Samples and groups	[mmol/L]														
<b>Sample A</b>		2,05	0,095	4,6	89		CVP	2,05	0,025	20%	1,64	2,46	89	88	99%
Other					1	0							1		
							1x 99								
<b>Sample B</b>		4,06	0,18	4,4	89		CVP	4,06	0,046	20%	3,24	4,88	89	88	99%
(1) Enzymatic UV method		4,07	0,17	4,3	43	0							43		
(2) Sensor measurement		4,04	0,18	4,4	6	0							6		
(4) Photometric enzyme method		4,06	0,18	4,5	39	0							39		
Other					1	0							1		
							1x 99								

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End of report

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