

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of the groups n = 5

EQA round: PRO2/20 - Specific Proteins

Deadline: 21.08.2020

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 _{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}
(41) IgA					51							51	50	98%
Samples and groups	[g/L]													
Sample A		1,79	0,07	3,9	51	CVP	1,80	0,010	16%	1,51	2,09	51	50	98%
(2) Immunoturbidimetry		1,79	0,068	3,8	43	0						43		
(3) Immunonephelometry		1,79	0,096	5,4	8	0						8		
Sample B		3,46	0,15	4,3	51	CVP	3,49	0,022	16%	2,93	4,05	51	51	100%
(2) Immunoturbidimetry		3,47	0,16	4,5	43	0						43		
(3) Immunonephelometry		3,43	0,15	4,3	8	0						8		
(42) IgG					51							51	51	100%
Samples and groups	[g/L]													
Sample A		7,51	0,33	4,4	51	CVP	7,56	0,047	15%	6,42	8,7	51	51	100%
(2) Immunoturbidimetry		7,52	0,32	4,2	43	0						43		
(3) Immunonephelometry		7,50	0,44	5,9	8	0						8		
Sample B		10,3	0,43	4,2	51	CVP	10,4	0,063	15%	8,84	12	51	51	100%
(2) Immunoturbidimetry		10,3	0,43	4,1	43	0						43		
(3) Immunonephelometry		10,3	0,68	6,6	8	0						8		
(43) IgM					51							51	48	94%
Samples and groups	[g/L]													
Sample A		0,557	0,033	5,9	51	CVP	0,552	0,0050	18%	0,452	0,652	51	50	98%
(2) Immunoturbidimetry		0,554	0,033	5,9	43	1						43		
(3) Immunonephelometry		0,571	0,031	5,4	8	0						8		
Sample B		1,37	0,089	6,5	51	CVP	1,37	0,013	18%	1,12	1,62	51	49	96%
(2) Immunoturbidimetry		1,36	0,085	6,2	43	0						43		
(3) Immunonephelometry		1,55	0,24	16	8	0						8		
(44) Transferrin					37							37	36	97%
Samples and groups	[g/L]													
Sample A		2,24	0,11	4,8	37	CVP	2,25	0,014	14%	1,93	2,57	37	37	100%
(2) Immunoturbidimetry		2,25	0,11	5,0	31	0						31		
(3) Immunonephelometry		2,20	0,096	4,4	5	0						5		
Other					1	0						1		
Sample B		2,97	0,14	4,6	37	CVP	3,0	0,021	14%	2,58	3,42	37	36	97%
(2) Immunoturbidimetry		2,99	0,13	4,5	31	0						31		
(3) Immunonephelometry		2,91	0,16	5,4	5	0						5		
Other					1	0						1		
(46) alpha-1-antitrypsin					23							23	23	100%
Samples and groups	[g/L]													
Sample A		1,09	0,10	9,6	23	CVP	1,13	0,031	25%	0,847	1,42	23	23	100%
(2) Immunoturbidimetry		1,07	0,079	7,4	19	0						19		
Other					4	0						4		
Sample B		1,43	0,14	9,6	23	CVP	1,49	0,045	25%	1,11	1,87	23	23	100%
(2) Immunoturbidimetry		1,41	0,098	7,0	19	0						19		
Other					4	0						4		
(47) C3 complement					37							37	35	95%
Samples and groups	[g/L]													
Sample A		0,990	0,045	4,6	37	CVP	0,997	0,0088	17%	0,827	1,17	37	35	95%
(2) Immunoturbidimetry		0,984	0,045	4,5	31	0						31		
(3) Immunonephelometry		1,02	0,022	2,2	6	0						6		
Sample B		1,40	0,054	3,9	37	CVP	1,43	0,013	17%	1,18	1,68	37	35	95%
(2) Immunoturbidimetry		1,40	0,054	3,9	31	0						31		
(3) Immunonephelometry		1,43	0,045	3,1	6	0						6		
(48) Prealbumin					17							17	16	94%
Samples and groups	[g/L]													
Sample A		0,324	0,024	7,5	17	CVP	0,325	0,0040	23%	0,25	0,4	17	16	94%
(2) Immunoturbidimetry		0,328	0,027	8,1	15	0						15		
Other					2	0						2		
Sample B		0,509	0,04	7,8	17	CVP	0,511	0,0071	23%	0,393	0,629	17	16	94%
(2) Immunoturbidimetry		0,506	0,045	8,8	15	0						15		
Other					2	0						2		

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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					
(49) Ceruloplasmin	[g/L]				20								17	16	94%	
Samples and groups																
Sample A		0,278	0,047	17	20								17	16	94%	
(2) Immunoturbidimetry; Beckman Coulter (AU)		0,267	0,01	3,9	8	0	CVPG	0,27	,0090	19%	0,218	0,322	8			
Other					12	0							9			
								1x 2/1, 2x 2/5, 1x 2/12, 2x 2/60, 3x 2/91, 1x 3/12, 2x 3/149								
Sample B		0,432	0,083	19	20								17	16	94%	
(2) Immunoturbidimetry; Beckman Coulter (AU)		0,422	0,017	4,0	8	0	CVPG	0,424	,0084	19%	0,343	0,505	8			
Other					12	0							9			
								1x 2/1, 2x 2/5, 1x 2/12, 2x 2/60, 3x 2/91, 1x 3/12, 2x 3/149								
(50) Orosomucoïd	[g/L]				15								15	15	100%	
Samples and groups																
Sample A		0,717	0,05	7,0	15		CVP	0,717	0,016	20%	0,573	0,861	15	15	100%	
(2) Immunoturbidimetry		0,712	0,051	7,2	13	0							13			
Other					2	0							2			
								2x 3								
Sample B		0,978	0,056	5,7	15		CVP	0,986	0,019	20%	0,788	1,19	15	15	100%	
(2) Immunoturbidimetry		0,971	0,054	5,6	13	0							13			
Other					2	0							2			
								2x 3								
(51) Haptoglobïn	[g/L]				20								20	18	90%	
Samples and groups																
Sample A		1,12	0,053	4,8	20		CVP	1,14	0,013	13%	0,991	1,29	20	18	90%	
(2) Immunoturbidimetry		1,12	0,052	4,6	17	0							17			
Other					3	0							3			
								3x 3								
Sample B		1,56	0,063	4,0	20		CVP	1,58	0,018	13%	1,37	1,79	20	19	95%	
(2) Immunoturbidimetry		1,56	0,077	4,9	17	0							17			
Other					3	0							3			
								3x 3								
(52) C4 complement	[g/L]				37								37	35	95%	
Samples and groups																
Sample A		0,299	0,023	7,5	37		CVP	0,291	,0051	21%	0,229	0,353	37	37	100%	
(2) Immunoturbidimetry		0,300	0,025	8,3	31	0							31			
(3) Immunonephelometry		0,295	0,007	2,5	6	0							6			
Sample B		0,514	0,042	8,2	37		CVP	0,5	,0087	21%	0,395	0,605	37	35	95%	
(2) Immunoturbidimetry		0,518	0,045	8,7	31	0							31			
(3) Immunonephelometry		0,496	0,024	4,8	6	0							6			
(53) a-2-macroglobulin	[g/L]				8								8	8	100%	
Samples and groups																
Sample A		1,77	0,16	9,2	8		CVP	1,8	0,067	21%	1,42	2,18	8	8	100%	
(2) Immunoturbidimetry		1,81	0,11	6,0	5	0							5			
Other					3	0							3			
								3x 3								
Sample B		2,44	0,22	9,1	8		CVP	2,52	0,090	21%	1,99	3,05	8	8	100%	
(2) Immunoturbidimetry		2,50	0,13	5,3	5	0							5			
Other					3	0							3			
								3x 3								
(55) Total protein	[g/L]				47								47	46	98%	
Samples and groups																
Sample A		52,8	4,0	7,6	47		CVP	52,5	0,73	16%	44,1	60,9	47	47	100%	
(1) Biuret		52,7	4,1	7,8	45	0							45			
Other					2	0							2			
								2x 99								
Sample B		74,1	3,8	5,1	47		CVP	74,1	0,70	12%	65,2	83	47	46	98%	
(1) Biuret		74,0	3,9	5,2	45	0							45			
Other					2	0							2			
								2x 99								
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				19								12	12	100%	
Samples and groups																
Sample A		1,13	0,34	30	19								12	12	100%	
Other					19	0							12			
								1x 2/12, 2x 2/60, 3x 2/999, 3x 3/149, 3x 4/12, 2x 6/60, 1x 6/149, 4x 6/999								
Sample B		1,42	0,35	25	19								12	12	100%	
Other					19	0							12			
								1x 2/12, 2x 2/60, 3x 2/999, 3x 3/149, 3x 4/12, 2x 6/60, 1x 6/149, 4x 6/999								

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End of report

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