

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of groups n = 5

EQA round: PRO1/19 - Specific Proteins

Dead line: 22.02.2019

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							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(41) IgA					44							44	44	100%
Samples and groups	[g/L]													
Sample A		1,81	0,085	4,7	44	CVP	1,82	0,012	16%	1,52	2,12	44	44	100%
(2) Immunoturbidimetry		1,81	0,083	4,6	36	0						36		
(3) Immunonephelometry		1,81	0,13	7,4	8	0						8		
Sample B		2,51	0,12	4,9	44	CVP	2,53	0,016	16%	2,12	2,94	44	44	100%
(2) Immunoturbidimetry		2,51	0,13	5,1	36	0						36		
(3) Immunonephelometry		2,46	0,089	3,6	8	0						8		
(42) IgG					44							44	44	100%
Samples and groups	[g/L]													
Sample A		7,94	0,37	4,7	44	CVP	8,04	0,059	15%	6,83	9,25	44	44	100%
(2) Immunoturbidimetry		7,89	0,36	4,6	36	0						36		
(3) Immunonephelometry		8,19	0,31	3,8	8	0						8		
Sample B		11,0	0,50	4,5	44	CVP	11,1	0,074	15%	9,43	12,8	44	44	100%
(2) Immunoturbidimetry		10,9	0,43	4,0	36	0						36		
(3) Immunonephelometry		11,4	1,0	9,1	8	0						8		
(43) IgM					44							44	43	98%
Samples and groups	[g/L]													
Sample A		0,518	0,031	5,9	44	CVP	0,52	,0045	18%	0,426	0,614	44	44	100%
(2) Immunoturbidimetry		0,510	0,022	4,4	36	0						36		
(3) Immunonephelometry		0,560	0,045	7,9	8	0						8		
Sample B		0,745	0,042	5,6	44	CVP	0,743	,0058	18%	0,609	0,877	44	43	98%
(2) Immunoturbidimetry		0,736	0,036	4,9	36	0						36		
(3) Immunonephelometry		0,787	0,025	3,1	8	0						8		
(44) Transferrin					32							32	31	97%
Samples and groups	[g/L]													
Sample A		2,27	0,08	3,5	32	CVP	2,28	0,013	14%	1,96	2,6	32	31	97%
(2) Immunoturbidimetry		2,28	0,079	3,5	27	1						27		
(3) Immunonephelometry		2,25	0,067	3,0	5	0						5		
Sample B		3,12	0,13	4,2	32	CVP	3,16	0,021	14%	2,71	3,61	32	32	100%
(2) Immunoturbidimetry		3,14	0,12	3,9	27	0						27		
(3) Immunonephelometry		3,02	0,030	0,98	5	0						5		
(46) alpha-1-antitrypsin					21							21	20	95%
Samples and groups	[g/L]													
Sample A		1,09	0,07	6,4	21	CVP	1,08	0,016	25%	0,81	1,35	21	20	95%
(2) Immunoturbidimetry		1,09	0,079	7,2	17	0						17		
Other					4	0						4		
						4x3								
Sample B		1,47	0,086	5,8	21	CVP	1,48	0,022	25%	1,11	1,85	21	20	95%
(2) Immunoturbidimetry		1,47	0,082	5,6	17	0						17		
Other					4	0						4		
						4x3								
(47) C3 complement					35							35	35	100%
Samples and groups	[g/L]													
Sample A		0,795	0,052	6,5	35	CVP	0,799	0,013	17%	0,663	0,935	35	35	100%
(2) Immunoturbidimetry		0,796	0,043	5,4	29	0						29		
(3) Immunonephelometry		0,795	0,11	14	6	0						6		
Sample B		1,12	0,059	5,3	35	CVP	1,14	0,016	17%	0,946	1,34	35	35	100%
(2) Immunoturbidimetry		1,12	0,054	4,8	29	0						29		
(3) Immunonephelometry		1,11	0,074	6,7	6	0						6		
(48) Prealbumin					17							17	17	100%
Samples and groups	[g/L]													
Sample A		0,270	0,003	1,3	17	CVP	0,269	,0027	23%	0,207	0,331	17	17	100%
(2) Immunoturbidimetry		0,270	0,0010	0,67	15	0						15		
Other					2	0						2		
						2x3								
Sample B		0,427	0,022	5,2	17	CVP	0,428	,0052	23%	0,329	0,527	17	17	100%
(2) Immunoturbidimetry		0,430	0,024	5,5	15	0						15		
Other					2	0						2		
						2x3								
(49) Ceruloplasmin					21							19	19	100%
Samples and groups	[g/L]													
Sample A		0,237	0,031	13	21							19	19	100%

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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]				21							19	19	100%	
Samples and groups															
Sample A		0,237	0,031	13	21							19	19	100%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,242	0,017	7,0	8	0	CVPG	0,241	,0095	19%	0,195	0,287	8		
Other					13	0						11			
								1x 2/1, 1x 2/5, 1x 2/12, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
Sample B		0,365	0,046	13	21							19	19	100%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,363	0,019	5,1	8	0	CVPG	0,364	,0079	19%	0,294	0,434	8		
Other					13	0						11			
								1x 2/1, 1x 2/5, 1x 2/12, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
(50) Orosomucoid	[g/L]				14							14	12	86%	
Samples and groups															
Sample A		0,644	0,064	9,9	14		CVP	0,631	0,013	20%	0,504	0,758	14	12	86%
(2) Immunoturbidimetry		0,647	0,072	11	12	1						12			
Other					2	0						2			
								2x 3							
Sample B		0,874	0,054	6,2	14		CVP	0,877	0,013	20%	0,701	1,06	14	14	100%
(2) Immunoturbidimetry		0,881	0,066	7,4	12	0						12			
Other					2	0						2			
								2x 3							
(51) Haptoglobin	[g/L]				18							18	17	94%	
Samples and groups															
Sample A		1,05	0,058	5,5	18		CVP	1,04	0,014	13%	0,904	1,18	18	17	94%
(2) Immunoturbidimetry		1,05	0,061	5,8	15	0						15			
Other					3	0						3			
								3x 3							
Sample B		1,43	0,058	4,1	18		CVP	1,45	0,017	13%	1,26	1,64	18	17	94%
(2) Immunoturbidimetry		1,43	0,059	4,1	15	0						15			
Other					3	0						3			
								3x 3							
(52) C4 complement	[g/L]				35							35	33	94%	
Samples and groups															
Sample A		0,212	0,019	8,9	35		CVP	0,205	,0035	21%	0,161	0,249	35	33	94%
(2) Immunoturbidimetry		0,212	0,021	10	29	0						29			
(3) Immunonephelometry		0,212	0,013	6,0	6	0						6			
Sample B		0,384	0,032	8,2	35		CVP	0,372	,0057	21%	0,293	0,451	35	34	97%
(2) Immunoturbidimetry		0,387	0,032	8,3	29	0						29			
(3) Immunonephelometry		0,370	0,03	8,0	6	0						6			
(53) a-2-macroglobulin	[g/L]				7							7	7	100%	
Samples and groups															
Sample A		1,58	0,079	5,0	7		CVP	1,62	0,048	21%	1,27	1,97	7	7	100%
Other					7	0						7			
								4x 2, 3x 3							
Sample B		2,15	0,052	2,4	7		CVP	2,21	0,062	21%	1,74	2,68	7	7	100%
Other					7	0						7			
								4x 2, 3x 3							
(55) Total protein	[g/L]				40							40	39	98%	
Samples and groups															
Sample A		49,8	3,8	7,6	40		CVP	49,8	0,73	17%	41,3	58,3	40	39	98%
(1) Biuret		49,7	3,8	7,7	39	0						39			
Other					1	0						1			
								1x 99							
Sample B		69,2	3,5	5,0	40		CVP	69,5	0,70	12%	61,1	77,9	40	39	98%
(1) Biuret		69,2	3,5	5,1	39	0						39			
Other					1	0						1			
								1x 99							
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				16							14	13	93%	
Samples and groups															
Sample A		1,87	1,1	57	16							14	13	93%	
(2) Immunoturbidimetry; (60) Roche		2,80	0,11	4,0	7	0	CVPG	2,81	0,055	30%	1,96	3,66	7		
Other					9	1						7			
								1x 2/12, 2x 2/75, 3x 3/149, 3x 99/12							
Sample B		2,63	1,5	58	16							14	13	93%	
(2) Immunoturbidimetry; (60) Roche		3,95	0,20	5,1	7	0	CVPG	3,94	0,10	30%	2,75	5,13	7		
Other					9	1						7			
								1x 2/12, 2x 2/75, 3x 3/149, 3x 99/12							

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End of report

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