

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of groups n = 5

EQA round: PRO2/18 - Specific Proteins

Dead line: 31.08.2018

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 _{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					39							39	38	97%
Samples and groups	[g/L]													
Sample A		1,34	0,079	5,9	39	CVP	1,34	0,012	16%	1,12	1,56	39	38	97%
(2) Immunoturbidimetry		1,34	0,068	5,1	31	0						31		
(3) Immunonephelometry		1,30	0,18	14	8	0						8		
Sample B		1,41	0,078	5,5	39	CVP	1,41	0,012	16%	1,18	1,64	39	39	100%
(2) Immunoturbidimetry		1,40	0,066	4,7	31	0						31		
(3) Immunonephelometry		1,42	0,15	10	8	0						8		
(42) IgG					39							39	38	97%
Samples and groups	[g/L]													
Sample A		5,67	0,27	4,8	39	CVP	5,7	0,041	15%	4,84	6,56	39	38	97%
(2) Immunoturbidimetry		5,63	0,26	4,7	31	0						31		
(3) Immunonephelometry		5,92	0,47	8,0	8	0						8		
Sample B		4,40	0,24	5,5	39	CVP	4,47	0,035	15%	3,79	5,15	39	38	97%
(2) Immunoturbidimetry		4,37	0,21	4,9	31	0						31		
(3) Immunonephelometry		4,61	0,31	6,8	8	0						8		
(43) IgM					39							39	35	90%
Samples and groups	[g/L]													
Sample A		0,419	0,028	6,6	39	CVP	0,421	,0040	18%	0,345	0,497	39	36	92%
(2) Immunoturbidimetry		0,414	0,024	5,8	31	0						31		
(3) Immunonephelometry		0,441	0,03	6,9	8	0						8		
Sample B		0,442	0,029	6,6	39	CVP	0,444	,0043	18%	0,364	0,524	39	36	92%
(2) Immunoturbidimetry		0,441	0,028	6,3	31	0						31		
(3) Immunonephelometry		0,440	0,045	10	8	0						8		
(44) Transferrin					27							27	27	100%
Samples and groups	[g/L]													
Sample A		1,77	0,08	4,5	27	CVP	1,77	0,012	14%	1,52	2,02	27	27	100%
(2) Immunoturbidimetry		1,77	0,081	4,6	22	0						22		
(3) Immunonephelometry		1,77	0,082	4,6	5	0						5		
Sample B		1,61	0,075	4,6	27	CVP	1,6	0,011	14%	1,37	1,83	27	27	100%
(2) Immunoturbidimetry		1,61	0,072	4,5	22	0						22		
(3) Immunonephelometry		1,60	0,089	5,6	5	0						5		
(46) alpha-1-antitrypsin					20							20	18	90%
Samples and groups	[g/L]													
Sample A		0,952	0,13	14	20	CVP	0,981	0,028	25%	0,735	1,23	20	19	95%
(2) Immunoturbidimetry		0,940	0,15	15	16	0						16		
Other					4	0						4		
						4x3								
Sample B		1,51	0,21	14	20	CVP	1,55	0,039	25%	1,16	1,94	20	18	90%
(2) Immunoturbidimetry		1,48	0,19	13	16	0						16		
Other					4	0						4		
						4x3								
(47) C3 complement					30							30	28	93%
Samples and groups	[g/L]													
Sample A		1,05	0,062	5,9	30	CVP	1,07	0,013	17%	0,888	1,26	30	29	97%
(2) Immunoturbidimetry		1,04	0,061	5,8	24	0						24		
(3) Immunonephelometry		1,06	0,082	7,7	6	0						6		
Sample B		1,70	0,094	5,5	30	CVP	1,75	0,020	17%	1,45	2,05	30	28	93%
(2) Immunoturbidimetry		1,70	0,10	5,9	24	0						24		
(3) Immunonephelometry		1,74	0,045	2,6	6	0						6		
(48) Prealbumin					16							16	15	94%
Samples and groups	[g/L]													
Sample A		0,322	0,03	9,2	16	CVP	0,319	,0037	23%	0,245	0,393	16	16	100%
(2) Immunoturbidimetry		0,326	0,028	8,7	14	0						14		
Other					2	0						2		
						2x3								
Sample B		0,584	0,066	11	16	CVP	0,563	,0088	23%	0,433	0,693	16	15	94%
(2) Immunoturbidimetry		0,585	0,073	12	14	0						14		
Other					2	0						2		
						2x3								
(49) Ceruloplasmin					18							15	13	87%
Samples and groups	[g/L]													
Sample A		0,323	0,063	20	18							15	14	93%

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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]				18							15	13	87%	
Samples and groups															
Sample A		0,323	0,063	20	18							15	14	93%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,321	0,013	4,1	5	0	CVPG	0,326	0,016	19%	0,264	0,388	5		
Other					13	0						10			
								1x 2/1, 1x 2/5, 1x 2/49, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
Sample B		0,651	0,11	16	18							15	13	87%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,605	0,007	1,2	5	0	CVPG	0,615	0,017	19%	0,498	0,732	5		
Other					13	0						10			
								1x 2/1, 1x 2/5, 1x 2/49, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
(50) Orosomucoid	[g/L]				13							13	12	92%	
Samples and groups															
Sample A		0,687	0,067	9,7	13		CVP	0,688	0,018	20%	0,55	0,826	13	12	92%
(2) Immunoturbidimetry		0,674	0,063	9,3	11	0						11			
Other					2	0						2			
								2x 3							
Sample B		1,04	0,10	9,8	13		CVP	1,03	0,036	20%	0,824	1,24	13	12	92%
(2) Immunoturbidimetry		1,01	0,089	8,7	11	0						11			
Other					2	0						2			
								2x 3							
(51) Haptoglobin	[g/L]				16							16	15	94%	
Samples and groups															
Sample A		0,915	0,047	5,2	16		CVP	0,93	0,012	13%	0,809	1,06	16	15	94%
(2) Immunoturbidimetry		0,904	0,045	5,0	13	0						13			
Other					3	0						3			
								3x 3							
Sample B		1,29	0,081	6,3	16		CVP	1,33	0,020	13%	1,15	1,51	16	15	94%
(2) Immunoturbidimetry		1,26	0,067	5,3	13	0						13			
Other					3	0						3			
								3x 3							
(52) C4 complement	[g/L]				30							30	28	93%	
Samples and groups															
Sample A		0,222	0,021	9,3	30		CVP	0,215	0,044	21%	0,169	0,261	30	28	93%
(2) Immunoturbidimetry		0,220	0,022	10	24	0						24			
(3) Immunonephelometry		0,229	0,013	5,8	6	0						6			
Sample B		0,525	0,045	8,6	30		CVP	0,511	0,088	21%	0,403	0,619	30	28	93%
(2) Immunoturbidimetry		0,526	0,045	8,6	24	0						24			
(3) Immunonephelometry		0,513	0,047	9,1	6	0						6			
(53) a-2-macroglobulin	[g/L]				7							7	7	100%	
Samples and groups															
Sample A		1,22	0,098	8,1	7		CVP	1,22	0,042	21%	0,963	1,48	7	7	100%
Other					7	0						7			
								4x 2, 3x 3							
Sample B		0,955	0,13	13	7		CVP	0,97	0,043	21%	0,766	1,18	7	7	100%
Other					7	0						7			
								4x 2, 3x 3							
(55) Total protein	[g/L]				36							36	35	97%	
Samples and groups															
Sample A		49,3	3,8	7,8	36		CVP	49,8	0,75	17%	41,3	58,3	36	35	97%
(1) Biuret		49,3	3,9	7,8	35	0						35			
Other					1	0						1			
								1x 99							
Sample B		68,2	3,4	5,0	36		CVP	68,7	0,61	10%	61,8	75,6	36	35	97%
(1) Biuret		68,2	3,5	5,1	35	0						35			
Other					1	0						1			
								1x 99							
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				14							14	14	100%	
Samples and groups															
Sample A		1,36	0,62	45	14							14	14	100%	
(2) Immunoturbidimetry; (60) Roche		1,80	0,18	9,9	8	0	CVPG	1,78	0,048	30%	1,24	2,32	8		
Other					6	0						6			
								3x 3/149, 3x 99/12							
Sample B		1,16	0,47	41	14							14	14	100%	
(2) Immunoturbidimetry; (60) Roche		1,49	0,22	14	8	0	CVPG	1,49	0,048	30%	1,04	1,94	8		
Other					6	0						6			
								3x 3/149, 3x 99/12							

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End of report

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