

Summary statistics - quantitative results

(Groups: measurement principle)

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

EQA round: PRO2/22 - Specific Proteins

Deadline: 23.09.2022

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}	
(46) alpha-1-antitrypsin					23							23	23	100%	
Samples and groups	[g/L]														
Sample A		1,09	0,13	12	23	CVP	1,11	0,038	25%	0,832	1,39	23	23	100%	
(2) Immunoturbidimetry		1,08	0,11	9,9	19	0						19			
Other					4	0						4			
						4x 3									
Sample B		1,48	0,16	11	23	CVP	1,53	0,050	25%	1,14	1,92	23	23	100%	
(2) Immunoturbidimetry		1,47	0,13	8,9	19	0						19			
Other					4	0						4			
						4x 3									
(53) a-2-macroglobulin					10							10	9	90%	
Samples and groups	[g/L]														
Sample A		1,63	0,043	2,6	10	CVP	1,62	0,055	21%	1,27	1,97	10	9	90%	
(2) Immunoturbidimetry		1,63	0,036	2,2	6	0						6			
Other					4	1						4			
						1x 0, 3x 3									
Sample B		2,27	0,093	4,1	10	CVP	2,24	0,075	21%	1,76	2,72	10	9	90%	
(2) Immunoturbidimetry		2,27	0,093	4,1	6	0						6			
Other					4	1						4			
						1x 0, 3x 3									
(47) C3 complement					33							33	33	100%	
Samples and groups	[g/L]														
Sample A		1,02	0,043	4,2	33	CVP	1,03	0,011	17%	0,854	1,21	33	33	100%	
(2) Immunoturbidimetry		1,02	0,043	4,2	30	0						30			
Other					3	0						3			
						3x 3									
Sample B		1,78	0,088	5,0	33	CVP	1,78	0,019	17%	1,47	2,09	33	33	100%	
(2) Immunoturbidimetry		1,77	0,091	5,1	30	0						30			
Other					3	0						3			
						3x 3									
(52) C4 complement					33							33	31	94%	
Samples and groups	[g/L]														
Sample A		0,236	0,017	7,1	33	CVP	0,229	,0039	21%	0,18	0,278	33	31	94%	
(2) Immunoturbidimetry		0,235	0,018	7,7	30	0						30			
Other					3	0						3			
						3x 3									
Sample B		0,535	0,033	6,2	33	CVP	0,525	,0080	21%	0,414	0,636	33	33	100%	
(2) Immunoturbidimetry		0,535	0,036	6,7	30	0						30			
Other					3	0						3			
						3x 3									
(55) Total protein					44							44	44	100%	
Samples and groups	[g/L]														
Sample A		55,1	3,5	6,4	44	CVP	55,8	0,57	12%	49,1	62,5	44	44	100%	
(1) Biuret		55,3	3,5	6,4	42	0						42			
Other					2	0						2			
						1x 0, 1x 99									
Sample B		78,0	4,0	5,1	44	CVP	79	0,52	12%	69,5	88,5	44	44	100%	
(1) Biuret		78,2	3,9	5,0	42	0						42			
Other					2	0						2			
						1x 0, 1x 99									
(49) Ceruloplasmin					20							18	15	83%	
Samples and groups	[g/L]														
Sample A		0,239	0,033	14	20							18	15	83%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,235	0,007	3,1	6	0	CVPG	0,235	,0056	19%	0,19	0,28	6		
Other					14	0						12			
						2x 2/1, 2x 2/5, 2x 2/12, 3x 2/60, 3x 2/91, 2x 3/149									
Sample B		0,436	0,074	17	20							18	16	89%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,410	0,015	3,6	6	0	CVPG	0,412	0,014	19%	0,333	0,491	6		
Other					14	0						12			
						2x 2/1, 2x 2/5, 2x 2/12, 3x 2/60, 3x 2/91, 2x 3/149									
(51) Haptoglobin					19							19	18	95%	
Samples and groups	[g/L]														
Sample A		1,19	0,076	6,4	19	CVP	1,2	0,014	13%	1,04	1,36	19	18	95%	
(2) Immunoturbidimetry		1,19	0,082	6,9	16	0						16			
Other					3	0						3			
						3x 3									
Sample B		1,58	0,064	4,0	19	CVP	1,58	0,017	13%	1,37	1,79	19	18	95%	

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							AV	U _{AV}	D _{max}	LL	UL				
(51) Haptoglobin	[g/L]				19								19	18	95%
Samples and groups															
Sample B		1,58	0,064	4,0	19		CVP	1,58	0,017	13%	1,37	1,79	19	18	95%
(2) Immunoturbidimetry		1,59	0,073	4,6	16	0							16		
Other					3	0							3		
							3x 3								
(41) IgA	[g/L]				50								50	50	100%
Samples and groups															
Sample A		1,85	0,069	3,7	50		CVP	1,86	0,013	16%	1,56	2,16	50	50	100%
(2) Immunoturbidimetry		1,85	0,067	3,6	44	0							44		
(3) Immunonephelometry		1,89	0,0150	7,8	5	0							5		
Other					1	0							1		
							1x 0								
Sample B		2,70	0,083	3,1	50		CVP	2,71	0,016	16%	2,27	3,15	50	50	100%
(2) Immunoturbidimetry		2,70	0,085	3,2	44	0							44		
(3) Immunonephelometry		2,68	0,03	1,1	5	0							5		
Other					1	0							1		
							1x 0								
(42) IgG	[g/L]				50								50	50	100%
Samples and groups															
Sample A		7,35	0,28	3,8	50		CVP	7,45	0,042	15%	6,33	8,57	50	50	100%
(2) Immunoturbidimetry		7,34	0,30	4,0	44	0							44		
(3) Immunonephelometry		7,43	0,096	1,3	5	0							5		
Other					1	0							1		
							1x 0								
Sample B		10,8	0,43	4,0	50		CVP	11,0	0,066	15%	9,35	12,7	50	50	100%
(2) Immunoturbidimetry		10,8	0,44	4,1	44	0							44		
(3) Immunonephelometry		10,9	0,15	1,4	5	0							5		
Other					1	0							1		
							1x 0								
(43) IgM	[g/L]				50								50	49	98%
Samples and groups															
Sample A		0,481	0,031	6,5	50		CVP	0,487	0,0050	18%	0,399	0,575	50	49	98%
(2) Immunoturbidimetry		0,481	0,032	6,5	45	0							45		
Other					5	0							5		
							1x 0, 4x 3								
Sample B		0,775	0,03	3,8	50		CVP	0,779	0,0055	18%	0,638	0,92	50	49	98%
(2) Immunoturbidimetry		0,774	0,029	3,7	45	1							45		
Other					5	0							5		
							1x 0, 4x 3								
(50) Orosomucoïd	[g/L]				14								14	12	86%
Samples and groups															
Sample A		0,753	0,067	8,8	14		CVP	0,756	0,025	20%	0,604	0,908	14	12	86%
(2) Immunoturbidimetry		0,737	0,049	6,7	12	0							12		
Other					2	0							2		
							2x 3								
Sample B		1,05	0,11	10	14		CVP	1,06	0,033	20%	0,848	1,28	14	13	93%
(2) Immunoturbidimetry		1,02	0,08	7,8	12	0							12		
Other					2	0							2		
							2x 3								
(48) Prealbumin	[g/L]				16								16	16	100%
Samples and groups															
Sample A		0,289	0,016	5,6	16		CVP	0,283	0,0030	23%	0,217	0,349	16	16	100%
(2) Immunoturbidimetry		0,289	0,017	5,7	14	0							14		
Other					2	0							2		
							2x 3								
Sample B		0,552	0,041	7,4	16		CVP	0,548	0,0071	23%	0,421	0,675	16	16	100%
(2) Immunoturbidimetry		0,547	0,039	7,1	14	0							14		
Other					2	0							2		
							2x 3								
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				19								12	12	100%
Samples and groups															
Sample A		1,26	0,26	21	19								12	12	100%
(6) IMT, IMN; (999) another manufacturer		1,03	0,096	9,4	5	0	CVPG	1,11	0,17	20%	0,888	1,34	0		
Other					14	0							12		
							1x 2/12, 1x 2/60, 2x 2/999, 4x 4/12, 3x 6/60, 2x 6/149, 1x 99/149								
Sample B		1,57	0,29	18	19								12	12	100%
(6) IMT, IMN; (999) another manufacturer		1,32	0,045	3,4	5	0	CVPG	1,44	0,16	20%	1,15	1,73	0		
Other					14	0							12		
							1x 2/12, 1x 2/60, 2x 2/999, 4x 4/12, 3x 6/60, 2x 6/149, 1x 99/149								

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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				
(44) Transferrin					34								34	33	97%
Samples and groups	[g/L]														
Sample A		2,47	0,063	2,5	34		CVP	2,5	0,014	14%	2,15	2,85	34	34	100%
(2) Immunoturbidimetry		2,48	0,063	2,5	31	0							31		
Other					3	0							3		
							3x 3								
Sample B		3,44	0,10	3,0	34		CVP	3,47	0,020	14%	2,98	3,96	34	33	97%
(2) Immunoturbidimetry		3,45	0,093	2,7	31	1							31		
Other					3	0							3		
							3x 3								

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End of report

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