

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of groups n = 5

EQA round: PRO2/19 - Specific Proteins

Dead line: 30.08.2019

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	42	95%
Samples and groups	[g/L]													
Sample A		1,94	0,11	5,5	44	CVP	1,94	0,012	16%	1,62	2,26	44	42	95%
(2) Immunoturbidimetry		1,92	0,10	5,2	36	0						36		
(3) Immunonephelometry		2,04	0,13	6,2	8	0						8		
Sample B		2,72	0,14	5,2	44	CVP	2,73	0,017	16%	2,29	3,17	44	43	98%
(2) Immunoturbidimetry		2,71	0,14	5,3	36	0						36		
(3) Immunonephelometry		2,71	0,18	6,6	8	0						8		
(42) IgG					44							44	44	100%
Samples and groups	[g/L]													
Sample A		8,63	0,37	4,3	44	CVP	8,74	0,057	15%	7,42	10,1	44	44	100%
(2) Immunoturbidimetry		8,57	0,36	4,3	36	0						36		
(3) Immunonephelometry		8,86	0,38	4,3	8	0						8		
Sample B		12,0	0,59	4,9	44	CVP	12,1	0,083	15%	10,2	14	44	44	100%
(2) Immunoturbidimetry		11,9	0,51	4,2	36	0						36		
(3) Immunonephelometry		12,2	0,98	8,0	8	0						8		
(43) IgM					44							44	42	95%
Samples and groups	[g/L]													
Sample A		0,551	0,031	5,7	44	CVP	0,553	,0052	18%	0,453	0,653	44	42	95%
(2) Immunoturbidimetry		0,549	0,033	6,0	36	0						36		
(3) Immunonephelometry		0,562	0,032	5,7	8	0						8		
Sample B		0,802	0,044	5,4	44	CVP	0,802	,0064	18%	0,657	0,947	44	44	100%
(2) Immunoturbidimetry		0,795	0,043	5,4	36	0						36		
(3) Immunonephelometry		0,825	0,052	6,3	8	0						8		
(44) Transferrin					32							32	31	97%
Samples and groups	[g/L]													
Sample A		2,41	0,084	3,5	32	CVP	2,43	0,014	14%	2,08	2,78	32	31	97%
(2) Immunoturbidimetry		2,41	0,083	3,5	27	0						27		
(3) Immunonephelometry		2,37	0,059	2,5	5	0						5		
Sample B		3,38	0,13	3,9	32	CVP	3,42	0,020	14%	2,94	3,9	32	31	97%
(2) Immunoturbidimetry		3,40	0,14	4,0	27	0						27		
(3) Immunonephelometry		3,34	0,059	1,8	5	0						5		
(46) alpha-1-antitrypsin					22							22	21	95%
Samples and groups	[g/L]													
Sample A		1,16	0,09	7,8	22	CVP	1,17	0,017	25%	0,877	1,47	22	21	95%
(2) Immunoturbidimetry		1,16	0,083	7,1	18	0						18		
Other					4	0						4		
Sample B		1,60	0,085	5,3	22	CVP	1,6	0,022	25%	1,2	2	22	21	95%
(2) Immunoturbidimetry		1,60	0,077	4,8	18	0						18		
Other					4	0						4		
(47) C3 complement					36							36	35	97%
Samples and groups	[g/L]													
Sample A		0,885	0,052	5,9	36	CVP	0,875	0,012	17%	0,726	1,03	36	35	97%
(2) Immunoturbidimetry		0,888	0,052	5,9	30	0						30		
(3) Immunonephelometry		0,856	0,051	6,0	6	0						6		
Sample B		1,27	0,065	5,1	36	CVP	1,26	0,015	17%	1,04	1,48	36	35	97%
(2) Immunoturbidimetry		1,27	0,064	5,0	30	0						30		
(3) Immunonephelometry		1,25	0,052	4,2	6	0						6		
(48) Prealbumin					17							17	17	100%
Samples and groups	[g/L]													
Sample A		0,304	0,015	5,0	17	CVP	0,298	,0030	23%	0,229	0,367	17	17	100%
(2) Immunoturbidimetry		0,301	0,013	4,3	15	0						15		
Other					2	0						2		
Sample B		0,481	0,033	6,9	17	CVP	0,486	,0062	23%	0,374	0,598	17	17	100%
(2) Immunoturbidimetry		0,480	0,026	5,4	15	0						15		
Other					2	0						2		
(49) Ceruloplasmin					22							19	19	100%
Samples and groups	[g/L]													
Sample A		0,284	0,039	14	22							19	19	100%

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of groups n = 5

EQA round: PRO2/19 - Specific Proteins

Dead line: 30.08.2019

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]				22							19	19	100%	
Samples and groups															
Sample A		0,284	0,039	14	22							19	19	100%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,285	0,022	7,8	8	0	CVPG	0,29	0,016	19%	0,234	0,346	8		
Other					14	0							11		
								1x 2/1, 2x 2/5, 1x 2/12, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
Sample B		0,445	0,057	13	22							19	19	100%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,449	0,043	9,6	8	0	CVPG	0,451	0,023	19%	0,365	0,537	8		
Other					14	0							11		
								1x 2/1, 2x 2/5, 1x 2/12, 3x 2/60, 4x 2/91, 1x 3/12, 2x 3/149							
(50) Orosomucoid	[g/L]				15							15	15	100%	
Samples and groups															
Sample A		0,693	0,042	6,0	15		CVP	0,684	0,013	20%	0,547	0,821	15	15	100%
(2) Immunoturbidimetry		0,697	0,047	6,8	13	0							13		
Other					2	0							2		
								2x 3							
Sample B		0,959	0,055	5,7	15		CVP	0,959	0,017	20%	0,767	1,16	15	15	100%
(2) Immunoturbidimetry		0,965	0,057	5,9	13	0							13		
Other					2	0							2		
								2x 3							
(51) Haptoglobin	[g/L]				19							19	19	100%	
Samples and groups															
Sample A		1,10	0,06	5,4	19		CVP	1,11	0,014	13%	0,965	1,26	19	19	100%
(2) Immunoturbidimetry		1,10	0,053	4,8	16	0							16		
Other					3	0							3		
								3x 3							
Sample B		1,54	0,08	5,2	19		CVP	1,57	0,019	13%	1,36	1,78	19	19	100%
(2) Immunoturbidimetry		1,55	0,079	5,1	16	0							16		
Other					3	0							3		
								3x 3							
(52) C4 complement	[g/L]				36							36	36	100%	
Samples and groups															
Sample A		0,245	0,014	5,8	36		CVP	0,24	0,0039	21%	0,189	0,291	36	36	100%
(2) Immunoturbidimetry		0,243	0,014	5,6	30	0							30		
(3) Immunonephelometry		0,257	0,009	3,7	6	0							6		
Sample B		0,465	0,035	7,6	36		CVP	0,451	0,0073	21%	0,356	0,546	36	36	100%
(2) Immunoturbidimetry		0,466	0,035	7,6	30	0							30		
(3) Immunonephelometry		0,456	0,024	5,2	6	0							6		
(53) a-2-macroglobulin	[g/L]				8							8	8	100%	
Samples and groups															
Sample A		1,82	0,12	6,8	8		CVP	1,82	0,058	21%	1,43	2,21	8	8	100%
(2) Immunoturbidimetry		1,81	0,043	2,4	5	0							5		
Other					3	0							3		
								3x 3							
Sample B		2,56	0,24	9,3	8		CVP	2,62	0,11	21%	2,06	3,18	8	8	100%
(2) Immunoturbidimetry		2,55	0,11	4,2	5	0							5		
Other					3	0							3		
								3x 3							
(55) Total protein	[g/L]				40							40	40	100%	
Samples and groups															
Sample A		53,4	3,8	7,1	40		CVP	53,4	0,72	16%	44,8	62	40	40	100%
(1) Biuret		53,4	3,8	7,2	39	0							39		
Other					1	0							1		
								1x 99							
Sample B		75,6	3,6	4,8	40		CVP	75,7	0,66	12%	66,6	84,8	40	40	100%
(1) Biuret		75,6	3,7	4,8	39	0							39		
Other					1	0							1		
								1x 99							
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				16							11	11	100%	
Samples and groups															
Sample A		1,25	0,40	32	16							11	11	100%	
(2) Immunoturbidimetry; (999) another manufacturer		0,915	0,082	8,9	5	0	CVPG	0,915	0,23	30%	0,64	1,19	0		
Other					11	0							11		
								1x 2/12, 3x 2/60, 3x 3/149, 4x 99/12							
Sample B		1,76	0,56	32	16							11	11	100%	
(2) Immunoturbidimetry; (999) another manufacturer		1,31	0,13	9,7	5	0	CVPG	1,31	0,36	30%	0,917	1,71	0		
Other					11	0							11		
								1x 2/12, 3x 2/60, 3x 3/149, 4x 99/12							