

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: PRO2/21 - Specific Proteins

Deadline: 24.09.2021

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					218							218	217	100%
Samples and groups	[g/L]													
Sample A		1,63	0,063	3,8	218	CVP	1,63	0,010	16%	1,36	1,9	218	217	100%
(2) Immunoturbidimetry		1,64	0,059	3,6	185	0						185		
(3) Immunonephelometry		1,61	0,082	5,1	32	0						32		
Other					1	0						1		
Sample B		2,84	0,084	2,9	218	CVP	2,84	0,014	16%	2,38	3,3	218	217	100%
(2) Immunoturbidimetry		2,84	0,076	2,7	185	0						185		
(3) Immunonephelometry		2,84	0,15	5,3	32	0						32		
Other					1	0						1		
(42) IgG					220							220	219	100%
Samples and groups	[g/L]													
Sample A		7,12	0,24	3,4	220	CVP	7,12	0,040	15%	6,05	8,19	220	220	100%
(2) Immunoturbidimetry		7,13	0,23	3,3	187	0						187		
(3) Immunonephelometry		7,06	0,29	4,2	32	0						32		
Other					1	0						1		
Sample B		12,4	0,44	3,5	220	CVP	12,4	0,073	15%	10,5	14,3	220	219	100%
(2) Immunoturbidimetry		12,4	0,41	3,3	187	0						187		
(3) Immunonephelometry		12,5	0,57	4,6	32	0						32		
Other					1	0						1		
(43) IgM					218							218	212	97%
Samples and groups	[g/L]													
Sample A		0,402	0,029	7,1	218	CVP	0,402	0,0048	18%	0,329	0,475	218	212	97%
(2) Immunoturbidimetry		0,404	0,029	7,2	185	0						185		
(3) Immunonephelometry		0,393	0,024	6,2	32	0						32		
Other					1	0						1		
Sample B		0,733	0,032	4,4	218	CVP	0,733	0,0054	18%	0,601	0,865	218	217	100%
(2) Immunoturbidimetry		0,734	0,033	4,6	185	0						185		
(3) Immunonephelometry		0,729	0,03	4,1	32	0						32		
Other					1	0						1		
(44) Transferrin					197							197	195	99%
Samples and groups	[g/L]													
Sample A		2,05	0,066	3,2	197	CVP	2,05	0,012	14%	1,76	2,34	197	195	99%
(2) Immunoturbidimetry		2,05	0,061	3,0	182	0						182		
(3) Immunonephelometry		2,02	0,12	5,8	15	0						15		
Sample B		3,59	0,12	3,3	197	CVP	3,59	0,021	14%	3,08	4,1	197	196	99%
(2) Immunoturbidimetry		3,59	0,11	3,1	182	0						182		
(3) Immunonephelometry		3,54	0,17	4,9	15	0						15		
(46) alpha-1-antitrypsin					84							84	69	82%
Samples and groups	[g/L]													
Sample A		0,461	0,055	12	84	CVP	0,461	0,015	25%	0,345	0,577	84	72	86%
(2) Immunoturbidimetry		0,450	0,054	12	62	2						62		
(3) Immunonephelometry		0,488	0,061	13	22	0						22		
Sample B		0,835	0,11	13	84	CVP	0,835	0,030	25%	0,626	1,05	84	76	90%
(2) Immunoturbidimetry		0,812	0,10	12	62	0						62		
(3) Immunonephelometry		0,908	0,12	13	22	0						22		
(47) C3 complement					130							130	129	99%
Samples and groups	[g/L]													
Sample A		1,02	0,048	4,7	130	CVP	1,02	0,010	17%	0,846	1,2	130	129	99%
(2) Immunoturbidimetry		1,03	0,041	4,0	101	0						101		
(3) Immunonephelometry		1,00	0,068	6,8	29	0						29		
Sample B		1,87	0,088	4,7	130	CVP	1,87	0,019	17%	1,55	2,19	130	129	99%
(2) Immunoturbidimetry		1,88	0,082	4,4	101	0						101		
(3) Immunonephelometry		1,85	0,11	6,1	29	0						29		
(48) Prealbumin					114							114	111	97%
Samples and groups	[g/L]													
Sample A		0,218	0,014	6,4	114	CVP	0,218	0,0032	23%	0,167	0,269	114	113	99%
(2) Immunoturbidimetry		0,219	0,014	6,4	102	0						102		

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Test	[unit]						Comparability						N _{eva}	N _{suc}	S _{rel}
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL				
(48) Prealbumin	[g/L]				114								114	111	97%
Samples and groups															
Sample A		0,218	0,014	6,4	114	CVP	0,218	,0032	23%	0,167	0,269	114	113	99%	
(3) Immunonephelometry		0,209	0,014	6,8	12	0						12			
Sample B		0,485	0,024	4,9	114	CVP	0,485	,0054	23%	0,373	0,597	114	111	97%	
(2) Immunoturbidimetry		0,484	0,021	4,3	102	0						102			
(3) Immunonephelometry		0,486	0,056	12	12	0						12			
(49) Ceruloplasmin	[g/L]				65							56	53	95%	
Samples and groups															
Sample A		0,172	0,043	25	65							56	54	96%	
(2) Immunoturbidimetry; (1) Abbott		0,225	0,007	3,3	6	0	CVPG	0,225	0,010	19%	0,182	0,268	6		
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,160	0,015	9,3	8	0	CVPG	0,16	0,011	19%	0,129	0,191	8		
(2) Immunoturbidimetry; (60) Roche		0,137	0,006	4,6	14	0	CVPG	0,137	,0041	19%	0,11	0,164	14		
(2) Immunoturbidimetry; (91) Binding Site		0,132	0,017	13	8	0	CVPG	0,132	0,013	19%	0,106	0,158	8		
(3) Immunonephelometry; (12) Beckman Coulter		0,144	0,012	8,3	7	0	CVPG	0,153	,0046	19%	0,123	0,183	7		
(3) Immunonephelometry; (149) Siemens (Dade, BN, Dimension)		0,204	0,014	6,8	11	0	CVPG	0,204	0,010	19%	0,165	0,243	11		
Other					11	0						2			
							2x 2/5, 2x 2/12, 4x 2/116, 1x 2/162, 1x 2/178, 1x 3/179								
Sample B		0,378	0,095	25	65							56	54	96%	
(2) Immunoturbidimetry; (1) Abbott		0,495	0,007	1,5	6	0	CVPG	0,495	0,010	19%	0,4	0,59	6		
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,350	0,03	8,5	8	0	CVPG	0,35	0,023	19%	0,283	0,417	8		
(2) Immunoturbidimetry; (60) Roche		0,304	0,012	3,8	14	0	CVPG	0,304	,0075	19%	0,246	0,362	14		
(2) Immunoturbidimetry; (91) Binding Site		0,296	0,036	12	8	0	CVPG	0,296	0,027	19%	0,239	0,353	8		
(3) Immunonephelometry; (12) Beckman Coulter		0,316	0,025	8,0	7	0	CVPG	0,319	0,034	19%	0,258	0,38	7		
(3) Immunonephelometry; (149) Siemens (Dade, BN, Dimension)		0,457	0,034	7,4	11	0	CVPG	0,457	0,025	19%	0,37	0,544	11		
Other					11	0						2			
							2x 2/5, 2x 2/12, 4x 2/116, 1x 2/162, 1x 2/178, 1x 3/179								
(50) Orosomucoid	[g/L]				61							61	59	97%	
Samples and groups															
Sample A		0,544	0,042	7,6	61	CVP	0,544	0,013	20%	0,435	0,653	61	59	97%	
(2) Immunoturbidimetry		0,542	0,047	8,7	45	0						45			
(3) Immunonephelometry		0,550	0,036	6,5	16	0						16			
Sample B		0,953	0,057	6,0	61	CVP	0,953	0,018	20%	0,762	1,15	61	59	97%	
(2) Immunoturbidimetry		0,948	0,057	6,0	45	0						45			
(3) Immunonephelometry		0,969	0,061	6,3	16	0						16			
(51) Haptoglobin	[g/L]				71							71	67	94%	
Samples and groups															
Sample A		0,921	0,037	4,0	71	CVP	0,921	0,011	13%	0,801	1,05	71	68	96%	
(2) Immunoturbidimetry		0,929	0,031	3,3	56	0						56			
(3) Immunonephelometry		0,890	0,041	4,7	15	0						15			
Sample B		1,63	0,073	4,5	71	CVP	1,63	0,021	13%	1,41	1,85	71	67	94%	
(2) Immunoturbidimetry		1,64	0,061	3,7	56	0						56			
(3) Immunonephelometry		1,57	0,065	4,2	15	0						15			
(52) C4 complement	[g/L]				130							130	124	95%	
Samples and groups															
Sample A		0,171	0,014	8,2	130	CVP	0,171	,0030	21%	0,135	0,207	130	125	96%	
(2) Immunoturbidimetry		0,171	0,016	9,2	100	0						100			
(3) Immunonephelometry		0,172	0,008	4,9	30	0						30			
Sample B		0,549	0,038	6,8	130	CVP	0,549	,0081	21%	0,433	0,665	130	128	98%	
(2) Immunoturbidimetry		0,554	0,034	6,1	100	0						100			
(3) Immunonephelometry		0,531	0,045	8,4	30	0						30			
(53) a-2-macroglobulin	[g/L]				23							23	22	96%	
Samples and groups															
Sample A		1,46	0,11	7,8	23	CVP	1,46	0,058	21%	1,15	1,77	23	23	100%	
(2) Immunoturbidimetry		1,46	0,092	6,3	8	0						8			
(3) Immunonephelometry		1,45	0,12	8,3	15	0						15			
Sample B		2,59	0,21	8,1	23	CVP	2,59	0,11	21%	2,04	3,14	23	22	96%	
(2) Immunoturbidimetry		2,57	0,22	8,4	8	0						8			
(3) Immunonephelometry		2,59	0,22	8,4	15	0						15			
(55) Total protein	[g/L]				195							195	195	100%	
Samples and groups															
Sample A		44,6	4,3	9,7	195	CVP	44,6	0,76	20%	35,6	53,6	195	195	100%	
(1) Biuret		44,6	4,3	9,7	195	0						195			
Sample B		80,2	3,0	3,7	195	CVP	80,2	0,53	12%	70,5	89,9	195	195	100%	

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Test	[unit]						Comparability						N _{eva}	N _{suc}	S _{rel}
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL				
(55) Total protein					195								195	195	100%
Samples and groups															
Sample B		80,2	3,0	3,7	195	CVP	80,2	0,53	12%	70,5	89,9		195	195	100%
(1) Biuret	[g/L]	80,2	3,0	3,7	195	0							195		
(56) Soluble Transferrin Receptor (sTfR)					61								48	46	96%
Samples and groups															
Sample A		1,56	0,94	60	61								48	46	96%
(2) EIA (ELISA); (60) Roche		2,37	0,14	6,0	9	0	CVPG	2,41	0,076	20%	1,92	2,9	9		
(3) FIA (FEIA, TRACE); (149) Siemens (Dade, BN, Dimension)		0,860	0,074	8,6	5	0	CVPG	0,874	0,084	20%	0,699	1,05	5		
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (12) Beckman Coulter		0,760	0,10	14	8	0	CVPG	0,786	0,054	20%	0,628	0,944	8		
(6) IMT, IMN; (60) Roche		2,43	0,18	7,5	19	0	CVPG	2,41	0,076	20%	1,92	2,9	19		
Other					20	0							7		
		1x 2/12, 2x 2/999, 1x 3/1, 1x 4/58, 4x 6/75, 4x 6/149, 1x 6/166, 4x 6/999, 2x 99/12													
Sample B		2,77	1,6	57	61								48	47	98%
(2) EIA (ELISA); (60) Roche		4,18	0,22	5,3	9	0	CVPG	4,21	0,10	20%	3,36	5,06	9		
(3) FIA (FEIA, TRACE); (149) Siemens (Dade, BN, Dimension)		1,57	0,052	3,3	5	0	CVPG	1,57	0,064	20%	1,25	1,89	5		
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (12) Beckman Coulter		1,45	0,13	9,2	8	0	CVPG	1,48	0,089	20%	1,18	1,78	8		
(6) IMT, IMN; (60) Roche		4,22	0,24	5,6	19	0	CVPG	4,21	0,10	20%	3,36	5,06	19		
Other					20	0							7		
		1x 2/12, 2x 2/999, 1x 3/1, 1x 4/58, 4x 6/75, 4x 6/149, 1x 6/166, 4x 6/999, 2x 99/12													

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End of report

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