

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: 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					86							86	85	99%
Samples and groups	[g/L]													
Sample A		1,11	0,14	13	86	CVP	1,11	0,038	25%	0,832	1,39	86	85	99%
(2) Immunoturbidimetry		1,09	0,13	12	64	0						64		
(3) Immunonephelometry		1,17	0,12	11	22	0						22		
Sample B		1,53	0,19	12	86	CVP	1,53	0,050	25%	1,14	1,92	86	86	100%
(2) Immunoturbidimetry		1,50	0,16	11	64	0						64		
(3) Immunonephelometry		1,64	0,21	13	22	0						22		
(53) a-2-macroglobulin					25							25	24	96%
Samples and groups	[g/L]													
Sample A		1,62	0,11	6,8	25	CVP	1,62	0,055	21%	1,27	1,97	25	24	96%
(2) Immunoturbidimetry		1,63	0,043	2,6	9	0						9		
(3) Immunonephelometry		1,61	0,12	7,2	15	0						15		
Other					1	1						1		
						1x 0								
Sample B		2,24	0,15	6,7	25	CVP	2,24	0,075	21%	1,76	2,72	25	24	96%
(2) Immunoturbidimetry		2,29	0,13	5,7	9	0						9		
(3) Immunonephelometry		2,23	0,16	7,0	15	0						15		
Other					1	1						1		
						1x 0								
(47) C3 complement					132							132	130	98%
Samples and groups	[g/L]													
Sample A		1,03	0,05	4,8	132	CVP	1,03	0,011	17%	0,854	1,21	132	131	99%
(2) Immunoturbidimetry		1,03	0,05	4,9	105	0						105		
(3) Immunonephelometry		1,04	0,05	4,8	27	0						27		
Sample B		1,78	0,088	4,9	132	CVP	1,78	0,019	17%	1,47	2,09	132	130	98%
(2) Immunoturbidimetry		1,78	0,087	4,9	105	0						105		
(3) Immunonephelometry		1,80	0,086	4,8	27	0						27		
(52) C4 complement					132							132	128	97%
Samples and groups	[g/L]													
Sample A		0,229	0,018	7,9	132	CVP	0,229	,0039	21%	0,18	0,278	132	130	98%
(2) Immunoturbidimetry		0,227	0,019	8,4	104	0						104		
(3) Immunonephelometry		0,236	0,013	5,3	28	0						28		
Sample B		0,525	0,037	7,1	132	CVP	0,525	,0080	21%	0,414	0,636	132	130	98%
(2) Immunoturbidimetry		0,522	0,038	7,2	104	0						104		
(3) Immunonephelometry		0,534	0,037	6,9	28	0						28		
(55) Total protein					197							197	195	99%
Samples and groups	[g/L]													
Sample A		55,8	3,3	5,9	197	CVP	55,8	0,57	12%	49,1	62,5	197	195	99%
(1) Biuret		55,8	3,3	5,9	195	0						195		
Other					2	0						2		
						1x 0, 1x 99								
Sample B		79,0	3,0	3,8	197	CVP	79	0,52	12%	69,5	88,5	197	196	99%
(1) Biuret		79,0	3,0	3,7	195	0						195		
Other					2	0						2		
						1x 0, 1x 99								
(49) Ceruloplasmin					67							58	55	95%
Samples and groups	[g/L]													
Sample A		0,233	0,045	19	67							58	55	95%
(2) Immunoturbidimetry; (1) Abbott		0,270	0,000	0,00	6	0	CVPG	0,27		19%	0,218	0,322	6	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,235	0,007	3,1	8	0	CVPG	0,235	,0056	19%	0,19	0,28	8	
(2) Immunoturbidimetry; (60) Roche		0,206	0,011	5,3	15	0	CVPG	0,206	,0069	19%	0,166	0,246	15	
(2) Immunoturbidimetry; (91) Binding Site		0,170	0,015	8,7	9	0	CVPG	0,17	0,018	19%	0,137	0,203	9	
(3) Immunonephelometry; (12) Beckman Coulter		0,202	0,017	8,4	7	0	CVPG	0,214	0,029	19%	0,173	0,255	7	
(3) Immunonephelometry; (149) Siemens (Dade, BN, Dimension)		0,284	0,009	3,3	11	0	CVPG	0,284	,0068	19%	0,23	0,338	11	
Other					11	0						2		
Sample B		0,437	0,097	22	67							58	56	97%
(2) Immunoturbidimetry; (1) Abbott		0,540	0,015	2,7	6	0	CVPG	0,54	0,021	19%	0,437	0,643	6	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,412	0,018	4,3	8	0	CVPG	0,412	0,014	19%	0,333	0,491	8	
(2) Immunoturbidimetry; (60) Roche		0,377	0,024	6,3	15	0	CVPG	0,377	0,015	19%	0,305	0,449	15	

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: PRO2/22 - Specific Proteins

Deadline: 23.09.2022

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]				67								58	55	95%	
Samples and groups																
Sample B		0,437	0,097	22	67								58	56	97%	
(2) Immunoturbidimetry; (91) Binding Site		0,339	0,027	8,1	9	0	CVPG	0,339	0,034	19%	0,274	0,404		9		
(3) Immunonephelometry; (12) Beckman Coulter		0,352	0,032	9,1	7	0	CVPG	0,378	0,077	19%	0,306	0,45		7		
(3) Immunonephelometry; (149) Siemens (Dade, BN, Dimension)		0,555	0,021	3,8	11	0	CVPG	0,555	0,016	19%	0,449	0,661		11		
Other					11	0								2		
															2x 2/5, 2x 2/12, 4x 2/116, 1x 2/162, 1x 2/178, 1x 3/179	
(51) Haptoglobin	[g/L]				73								73	69	95%	
Samples and groups																
Sample A		1,20	0,05	4,1	73		CVP	1,2	0,014	13%	1,04	1,36		73	69	95%
(2) Immunoturbidimetry		1,20	0,045	3,7	58	0								58		
(3) Immunonephelometry		1,21	0,09	7,5	15	0								15		
Sample B		1,58	0,059	3,7	73		CVP	1,58	0,017	13%	1,37	1,79		73	69	95%
(2) Immunoturbidimetry		1,58	0,056	3,5	58	0								58		
(3) Immunonephelometry		1,59	0,10	6,4	15	0								15		
(41) IgA	[g/L]				222								222	217	98%	
Samples and groups																
Sample A		1,86	0,078	4,2	222		CVP	1,86	0,013	16%	1,56	2,16		222	218	98%
(2) Immunoturbidimetry		1,85	0,078	4,2	190	0								190		
(3) Immunonephelometry		1,86	0,077	4,1	30	0								30		
Other					2	0								2		
															1x 0, 1x 99	
Sample B		2,71	0,096	3,5	222		CVP	2,71	0,016	16%	2,27	3,15		222	220	99%
(2) Immunoturbidimetry		2,71	0,09	3,3	190	0								190		
(3) Immunonephelometry		2,72	0,13	4,8	30	0								30		
Other					2	0								2		
															1x 0, 1x 99	
(42) IgG	[g/L]				223								223	221	99%	
Samples and groups																
Sample A		7,45	0,26	3,5	223		CVP	7,45	0,042	15%	6,33	8,57		223	222	100%
(2) Immunoturbidimetry		7,44	0,26	3,4	191	0								191		
(3) Immunonephelometry		7,56	0,31	4,0	30	0								30		
Other					2	0								2		
															1x 0, 1x 99	
Sample B		11,0	0,40	3,6	223		CVP	11,0	0,066	15%	9,35	12,7		223	222	100%
(2) Immunoturbidimetry		11,0	0,40	3,7	191	0								191		
(3) Immunonephelometry		11,1	0,40	3,6	30	0								30		
Other					2	0								2		
															1x 0, 1x 99	
(43) IgM	[g/L]				222								222	219	99%	
Samples and groups																
Sample A		0,487	0,03	6,2	222		CVP	0,487	,0050	18%	0,399	0,575		222	219	99%
(2) Immunoturbidimetry		0,485	0,03	6,2	191	0								191		
(3) Immunonephelometry		0,500	0,031	6,1	29	0								29		
Other					2	0								2		
															1x 0, 1x 99	
Sample B		0,779	0,033	4,3	222		CVP	0,779	,0055	18%	0,638	0,92		222	221	100%
(2) Immunoturbidimetry		0,776	0,031	4,0	191	1								191		
(3) Immunonephelometry		0,796	0,036	4,5	29	0								29		
Other					2	0								2		
															1x 0, 1x 99	
(50) Orosomucoïd	[g/L]				60								60	52	87%	
Samples and groups																
Sample A		0,756	0,08	11	60		CVP	0,756	0,025	20%	0,604	0,908		60	54	90%
(2) Immunoturbidimetry		0,741	0,047	6,4	44	0								44		
(3) Immunonephelometry		0,827	0,15	18	16	0								16		
Sample B		1,06	0,10	9,8	60		CVP	1,06	0,033	20%	0,848	1,28		60	57	95%
(2) Immunoturbidimetry		1,05	0,055	5,3	44	0								44		
(3) Immunonephelometry		1,15	0,18	16	16	0								16		
(48) Prealbumin	[g/L]				115								115	114	99%	
Samples and groups																
Sample A		0,283	0,013	4,7	115		CVP	0,283	,0030	23%	0,217	0,349		115	115	100%
(2) Immunoturbidimetry		0,283	0,013	4,6	103	0								103		
(3) Immunonephelometry		0,282	0,015	5,3	12	0								12		
Sample B		0,548	0,031	5,7	115		CVP	0,548	,0071	23%	0,421	0,675		115	114	99%
(2) Immunoturbidimetry		0,548	0,031	5,6	103	0								103		
(3) Immunonephelometry		0,546	0,036	6,5	12	0								12		

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: PRO2/22 - Specific Proteins

Deadline: 23.09.2022

Test	[unit]						Comparability									
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}		
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				65								52	51	98%	
Samples and groups																
Sample A		2,09	1,2	56	65								52	51	98%	
(2) EIA (ELISA); (60) Roche		3,20	0,47	15	6	0	CVPG	3,16	0,18	20%	2,52	3,8		6		
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (12) Beckman Coulter		1,29	0,083	6,5	11	0	CVPG	1,28	0,054	20%	1,02	1,54		11		
(6) IMT, IMN; (60) Roche		3,16	0,41	13	23	0	CVPG	3,16	0,18	20%	2,52	3,8		23		
(6) IMT, IMN; (149) Siemens (Dade, BN, Dimension)		1,23	0,037	3,0	6	0	CVPG	1,22	0,023	20%	0,976	1,47		6		
(6) IMT, IMN; (999) another manufacturer		1,03	0,10	10	6	0	CVPG	1,11	0,17	20%	0,888	1,34		0		
Other					13	0								6		
----- 1x 2/12, 2x 2/999, 1x 3/1, 3x 3/149, 3x 6/75, 1x 6/166, 1x 99/12, 1x 99/149 -----																
Sample B		2,66	1,5	56	65								52	52	100%	
(2) EIA (ELISA); (60) Roche		4,06	0,43	11	6	0	CVPG	4,03	0,16	20%	3,22	4,84		6		
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (12) Beckman Coulter		1,54	0,09	5,8	11	0	CVPG	1,53	0,057	20%	1,22	1,84		11		
(6) IMT, IMN; (60) Roche		4,03	0,36	9,0	23	0	CVPG	4,03	0,16	20%	3,22	4,84		23		
(6) IMT, IMN; (149) Siemens (Dade, BN, Dimension)		1,63	0,082	5,0	6	0	CVPG	1,62	0,062	20%	1,29	1,95		6		
(6) IMT, IMN; (999) another manufacturer		1,35	0,082	6,1	6	0	CVPG	1,44	0,16	20%	1,15	1,73		0		
Other					13	0								6		
----- 1x 2/12, 2x 2/999, 1x 3/1, 3x 3/149, 3x 6/75, 1x 6/166, 1x 99/12, 1x 99/149 -----																
(44) Transferrin	[g/L]				202								202	200	99%	
Samples and groups																
Sample A		2,50	0,08	3,2	202		CVP	2,5	0,014	14%	2,15	2,85		202	201	100%
(2) Immunoturbidimetry		2,50	0,077	3,1	188	0								188		
(3) Immunonephelometry		2,48	0,12	4,7	14	0								14		
Sample B		3,47	0,11	3,3	202		CVP	3,47	0,020	14%	2,98	3,96		202	200	99%
(2) Immunoturbidimetry		3,47	0,11	3,2	188	1								188		
(3) Immunonephelometry		3,44	0,16	4,7	14	0								14		

st_kn_p

End of report

Printed: 01.10.2022