

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: 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					220							220	215	98%
Samples and groups	[g/L]													
Sample A		1,94	0,073	3,8	220	CVP	1,94	0,012	16%	1,62	2,26	220	216	98%
(2) Immunoturbidimetry		1,94	0,07	3,6	183	0						183		
(3) Immunonephelometry		1,93	0,084	4,3	36	0						36		
Other					1	0						1		
						1x 99								
Sample B		2,73	0,10	3,7	220	CVP	2,73	0,017	16%	2,29	3,17	220	217	99%
(2) Immunoturbidimetry		2,73	0,093	3,4	183	0						183		
(3) Immunonephelometry		2,70	0,12	4,6	36	0						36		
Other					1	0						1		
						1x 99								
(42) IgG					221							221	217	98%
Samples and groups	[g/L]													
Sample A		8,74	0,34	3,9	221	CVP	8,74	0,057	15%	7,42	10,1	221	219	99%
(2) Immunoturbidimetry		8,72	0,32	3,7	184	0						184		
(3) Immunonephelometry		8,87	0,49	5,5	36	0						36		
Other					1	0						1		
						1x 99								
Sample B		12,1	0,51	4,2	221	CVP	12,1	0,083	15%	10,2	14	221	218	99%
(2) Immunoturbidimetry		12,1	0,46	3,8	184	0						184		
(3) Immunonephelometry		12,3	0,73	6,0	36	0						36		
Other					1	0						1		
						1x 99								
(43) IgM					220							220	216	98%
Samples and groups	[g/L]													
Sample A		0,553	0,031	5,7	220	CVP	0,553	0,0052	18%	0,453	0,653	220	216	98%
(2) Immunoturbidimetry		0,549	0,03	5,4	183	0						183		
(3) Immunonephelometry		0,571	0,032	5,7	36	0						36		
Other					1	0						1		
						1x 99								
Sample B		0,802	0,039	4,8	220	CVP	0,802	0,0064	18%	0,657	0,947	220	219	100%
(2) Immunoturbidimetry		0,798	0,037	4,6	183	0						183		
(3) Immunonephelometry		0,821	0,042	5,1	36	0						36		
Other					1	0						1		
						1x 99								
(44) Transferrin					198							198	195	98%
Samples and groups	[g/L]													
Sample A		2,43	0,079	3,3	198	CVP	2,43	0,014	14%	2,08	2,78	198	196	99%
(2) Immunoturbidimetry		2,43	0,075	3,1	178	0						178		
(3) Immunonephelometry		2,43	0,13	5,4	20	0						20		
Sample B		3,42	0,11	3,3	198	CVP	3,42	0,020	14%	2,94	3,9	198	196	99%
(2) Immunoturbidimetry		3,42	0,11	3,2	178	0						178		
(3) Immunonephelometry		3,40	0,17	5,1	20	0						20		
(46) alpha-1-antitrypsin					84							84	83	99%
Samples and groups	[g/L]													
Sample A		1,17	0,065	5,5	84	CVP	1,17	0,017	25%	0,877	1,47	84	83	99%
(2) Immunoturbidimetry		1,16	0,06	5,2	58	0						58		
(3) Immunonephelometry		1,18	0,072	6,1	26	0						26		
Sample B		1,60	0,081	5,0	84	CVP	1,6	0,022	25%	1,2	2	84	83	99%
(2) Immunoturbidimetry		1,59	0,063	4,0	58	0						58		
(3) Immunonephelometry		1,62	0,12	7,1	26	0						26		
(47) C3 complement					138							138	135	98%
Samples and groups	[g/L]													
Sample A		0,875	0,056	6,4	138	CVP	0,875	0,012	17%	0,726	1,03	138	136	99%
(2) Immunoturbidimetry		0,887	0,053	6,0	102	0						102		
(3) Immunonephelometry		0,840	0,051	6,1	36	0						36		
Sample B		1,26	0,071	5,6	138	CVP	1,26	0,015	17%	1,04	1,48	138	136	99%
(2) Immunoturbidimetry		1,28	0,068	5,3	102	0						102		
(3) Immunonephelometry		1,22	0,064	5,2	36	0						36		
(48) Prealbumin					115							115	114	99%
Samples and groups	[g/L]													
Sample A		0,298	0,013	4,4	115	CVP	0,298	0,0030	23%	0,229	0,367	115	115	100%
(2) Immunoturbidimetry		0,298	0,012	4,2	100	0						100		
(3) Immunonephelometry		0,292	0,022	7,4	15	0						15		
Sample B		0,486	0,027	5,6	115	CVP	0,486	0,0062	23%	0,374	0,598	115	114	99%

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability								
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(48) Prealbumin					115							115	114	99%	
Samples and groups	[g/L]														
Sample B		0,486	0,027	5,6	115		CVP	0,486	,0062	23%	0,374	0,598	115	114	99%
(2) Immunoturbidimetry		0,483	0,026	5,3	100	0							100		
(3) Immunonephelometry		0,505	0,047	9,2	15	0							15		
(49) Ceruloplasmin					69							64	60	94%	
Samples and groups	[g/L]														
Sample A		0,294	0,046	16	69							64	62	97%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,290	0,022	7,6	12	0	CVPG	0,29	0,016	19%	0,234	0,346	12		
(2) Immunoturbidimetry; (60) Roche		0,251	0,014	5,7	16	0	CVPG	0,251	,0088	19%	0,203	0,299	16		
(2) Immunoturbidimetry; (91) Binding Site		0,261	0,036	14	8	0	CVPG	0,261	0,028	19%	0,211	0,311	8		
(3) Immunonephelometry; (12) Beckman Coulter		0,291	0,016	5,4	9	0	CVPG	0,292	0,014	19%	0,236	0,348	9		
(3) Immunonephelometry; (149) Siemens (BN, Dimension)		0,346	0,021	6,1	13	0	CVPG	0,346	0,014	19%	0,28	0,412	13		
Other					11	0							6		
								2x 2/1, 2x 2/5, 1x 2/12, 1x 2/49, 4x 2/116, 1x 3/116							
Sample B		0,460	0,065	14	69							64	60	94%	
(2) Immunoturbidimetry; (58) Beckman Coulter (AU)		0,451	0,033	7,3	12	0	CVPG	0,451	0,023	19%	0,365	0,537	12		
(2) Immunoturbidimetry; (60) Roche		0,400	0,029	7,2	16	0	CVPG	0,4	0,018	19%	0,324	0,476	16		
(2) Immunoturbidimetry; (91) Binding Site		0,435	0,082	19	8	0	CVPG	0,435	0,063	19%	0,352	0,518	8		
(3) Immunonephelometry; (12) Beckman Coulter		0,470	0,015	3,1	9	0	CVPG	0,472	0,041	19%	0,382	0,562	9		
(3) Immunonephelometry; (149) Siemens (BN, Dimension)		0,531	0,036	6,8	13	0	CVPG	0,531	0,024	19%	0,43	0,632	13		
Other					11	0							6		
								2x 2/1, 2x 2/5, 1x 2/12, 1x 2/49, 4x 2/116, 1x 3/116							
(50) Orosomucoicid					63							63	61	97%	
Samples and groups	[g/L]														
Sample A		0,684	0,042	6,1	63		CVP	0,684	0,013	20%	0,547	0,821	63	61	97%
(2) Immunoturbidimetry		0,680	0,046	6,8	44	0							44		
(3) Immunonephelometry		0,693	0,032	4,5	19	0							19		
Sample B		0,959	0,056	5,8	63		CVP	0,959	0,017	20%	0,767	1,16	63	62	98%
(2) Immunoturbidimetry		0,957	0,059	6,2	44	0							44		
(3) Immunonephelometry		0,962	0,052	5,4	19	0							19		
(51) Haptoglobin					70							70	70	100%	
Samples and groups	[g/L]														
Sample A		1,11	0,049	4,4	70		CVP	1,11	0,014	13%	0,965	1,26	70	70	100%
(2) Immunoturbidimetry		1,11	0,044	4,0	54	0							54		
(3) Immunonephelometry		1,12	0,067	5,9	16	0							16		
Sample B		1,57	0,065	4,1	70		CVP	1,57	0,019	13%	1,36	1,78	70	70	100%
(2) Immunoturbidimetry		1,57	0,061	3,9	54	0							54		
(3) Immunonephelometry		1,58	0,089	5,6	16	0							16		
(52) C4 complement					138							138	132	96%	
Samples and groups	[g/L]														
Sample A		0,240	0,019	7,8	138		CVP	0,24	,0039	21%	0,189	0,291	138	135	98%
(2) Immunoturbidimetry		0,238	0,019	8,0	102	0							102		
(3) Immunonephelometry		0,247	0,014	5,7	36	0							36		
Sample B		0,451	0,035	7,7	138		CVP	0,451	,0073	21%	0,356	0,546	138	135	98%
(2) Immunoturbidimetry		0,452	0,035	7,8	102	0							102		
(3) Immunonephelometry		0,449	0,034	7,6	36	0							36		
(53) a-2-macroglobulin					25							25	25	100%	
Samples and groups	[g/L]														
Sample A		1,82	0,12	6,4	25		CVP	1,82	0,058	21%	1,43	2,21	25	25	100%
(2) Immunoturbidimetry		1,84	0,095	5,1	9	0							9		
(3) Immunonephelometry		1,82	0,13	7,0	16	0							16		
Sample B		2,62	0,22	8,5	25		CVP	2,62	0,11	21%	2,06	3,18	25	25	100%
(2) Immunoturbidimetry		2,60	0,18	6,9	9	0							9		
(3) Immunonephelometry		2,62	0,24	9,4	16	0							16		
(55) Total protein					194							194	191	98%	
Samples and groups	[g/L]														
Sample A		53,4	4,1	7,7	194		CVP	53,4	0,72	16%	44,8	62	194	191	98%
(1) Biuret		53,4	4,1	7,7	193	0							193		
Other					1	0							1		
								1x 99							
Sample B		75,7	3,8	5,0	194		CVP	75,7	0,66	12%	66,6	84,8	194	192	99%
(1) Biuret		75,7	3,8	5,0	193	0							193		
Other					1	0							1		
								1x 99							

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: 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							
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(56) Soluble Transferrin Receptor (sTfR)	[mg/L]				56							45	45	100%
Samples and groups														
Sample A		2,00	1,1	55	56							45	45	100%
(2) Immunoturbidimetry; (60) Roche		2,98	0,094	3,2	25	0	CVPG	2,98	0,046	30%	2,08	3,88	25	
(2) Immunoturbidimetry; (999) another manufacturer		0,915	0,082	8,9	5	0	CVPG	0,915	0,23	30%	0,64	1,19	0	
(3) Immunonephelometry; (149) Siemens (BN, Dimension)		1,23	0,037	3,0	9	0	CVPG	1,23	0,046	30%	0,861	1,6	9	
(99) Another measurement principle; (12) Beckman Coulter		1,23	0,022	1,8	9	0	CVPG	1,23	0,046	30%	0,861	1,6	9	
Other					8	0							2	
----- 1x 2/1, 2x 2/12, 1x 2/75, 1x 2/166, 1x 2/179, 1x 99/49, 1x 99/58 -----														
Sample B		2,81	1,5	54	56							45	45	100%
(2) Immunoturbidimetry; (60) Roche		4,21	0,14	3,4	25	0	CVPG	4,21	0,070	30%	2,94	5,48	25	
(2) Immunoturbidimetry; (999) another manufacturer		1,31	0,13	9,7	5	0	CVPG	1,31	0,36	30%	0,917	1,71	0	
(3) Immunonephelometry; (149) Siemens (BN, Dimension)		1,76	0,067	3,8	9	0	CVPG	1,76	0,082	30%	1,23	2,29	9	
(99) Another measurement principle; (12) Beckman Coulter		1,74	0,052	3,0	9	0	CVPG	1,74	0,082	30%	1,21	2,27	9	
Other					8	0							2	
----- 1x 2/1, 2x 2/12, 1x 2/75, 1x 2/166, 1x 2/179, 1x 99/49, 1x 99/58 -----														

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End of report

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