

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 5

EQA round: PRO2/17 - Specific Proteins

Dead line: 15.09.2017

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					214							214	203	95%
Samples and groups	[g/L]													
Sample A		3,25	0,18	5,6	214	CVP	3,25	0,031	16%	2,73	3,77	214	204	95%
(2) Immunoturbidimetry		3,23	0,17	5,4	175	0						175		
(3) Immunonephelometry		3,36	0,19	5,7	38	0						38		
Other					1	0						1		
						1x0								
Sample B		1,66	0,082	4,9	214	CVP	1,66	0,014	16%	1,39	1,93	214	208	97%
(2) Immunoturbidimetry		1,65	0,079	4,8	175	0						175		
(3) Immunonephelometry		1,66	0,098	5,9	38	0						38		
Other					1	0						1		
						1x0								
(42) IgG					215							215	206	96%
Samples and groups	[g/L]													
Sample A		15,4	0,73	4,7	215	CVP	15,4	0,12	15%	13	17,8	215	209	97%
(2) Immunoturbidimetry		15,3	0,67	4,4	177	0						177		
(3) Immunonephelometry		15,8	1,0	6,4	37	0						37		
Other					1	0						1		
						1x0								
Sample B		8,29	0,39	4,7	215	CVP	8,29	0,065	15%	7,04	9,54	215	210	98%
(2) Immunoturbidimetry		8,23	0,37	4,5	177	0						177		
(3) Immunonephelometry		8,57	0,40	4,7	37	0						37		
Other					1	0						1		
						1x0								
(43) IgM					214							214	206	96%
Samples and groups	[g/L]													
Sample A		2,05	0,16	8,0	214	CVP	2,05	0,027	18%	1,68	2,42	214	207	97%
(2) Immunoturbidimetry		2,03	0,16	8,0	176	0						176		
(3) Immunonephelometry		2,13	0,17	8,2	37	0						37		
Other					1	0						1		
						1x0								
Sample B		1,02	0,062	6,1	214	CVP	1,02	0,010	18%	0,836	1,21	214	211	99%
(2) Immunoturbidimetry		1,01	0,06	5,9	176	0						176		
(3) Immunonephelometry		1,07	0,07	6,6	37	0						37		
Other					1	0						1		
						1x0								
(44) Transferrin					194							194	190	98%
Samples and groups	[g/L]													
Sample A		4,25	0,19	4,5	194	CVP	4,25	0,034	14%	3,65	4,85	194	191	98%
(2) Immunoturbidimetry		4,25	0,18	4,3	173	0						173		
(3) Immunonephelometry		4,25	0,31	7,2	20	0						20		
Other					1	0						1		
						1x0								
Sample B		2,35	0,099	4,2	194	CVP	2,35	0,017	14%	2,02	2,68	194	192	99%
(2) Immunoturbidimetry		2,35	0,089	3,8	173	0						173		
(3) Immunonephelometry		2,30	0,15	6,7	20	0						20		
Other					1	0						1		
						1x0								
(46) alpha-1-antitrypsin					86							86	84	98%
Samples and groups	[g/L]													
Sample A		1,94	0,13	6,9	86	CVP	1,94	0,035	25%	1,45	2,43	86	85	99%
(2) Immunoturbidimetry		1,90	0,11	5,8	57	0						57		
(3) Immunonephelometry		2,03	0,12	5,7	29	0						29		
						1x0								
Sample B		1,08	0,083	7,6	86	CVP	1,08	0,022	25%	0,81	1,35	86	85	99%
(2) Immunoturbidimetry		1,07	0,079	7,4	57	0						57		
(3) Immunonephelometry		1,11	0,068	6,1	29	0						29		
						1x0								
(47) C3 complement					136							136	127	93%
Samples and groups	[g/L]													
Sample A		2,11	0,18	8,5	136	CVP	2,11	0,038	17%	1,75	2,47	136	130	96%
(2) Immunoturbidimetry		2,16	0,19	9,0	97	0						97		
(3) Immunonephelometry		2,01	0,081	4,0	39	0						39		
						1x0								
Sample B		1,15	0,098	8,5	136	CVP	1,15	0,021	17%	0,954	1,35	136	132	97%
(2) Immunoturbidimetry		1,18	0,09	7,6	97	0						97		
(3) Immunonephelometry		1,07	0,067	6,2	39	0						39		

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Test	[unit]						Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(48) Prealbumin					117							117	113	97%
Samples and groups	[g/L]													
Sample A		0,434	0,042	9,6	117	CVP	0,434	,0095	23%	0,334	0,534	117	113	97%
(2) Immunoturbidimetry		0,427	0,042	9,9	100	0						100		
(3) Immunonephelometry		0,475	0,037	7,9	17	0						17		
Sample B		0,228	0,014	6,1	117	CVP	0,228	,0031	23%	0,175	0,281	117	117	100%
(2) Immunoturbidimetry		0,226	0,013	5,9	100	0						100		
(3) Immunonephelometry		0,238	0,011	4,4	17	0						17		
(49) Ceruloplasmin					71							65	61	94%
Samples and groups	[g/L]													
Sample A		0,457	0,079	17	71							65	62	95%
(2) Immunoturbidimetry; (5) Dialab		0,480	0,059	12	5	0	CVPG	0,48	0,17	19%	0,388	0,572	5	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,428	0,056	13	7	0	CVPG	0,428	0,054	19%	0,346	0,51	7	
(2) Immunoturbidimetry; (60) Roche		0,386	0,031	8,1	15	0	CVPG	0,386	0,020	19%	0,312	0,46	15	
(2) Immunoturbidimetry; (91) Binding Site		0,549	0,025	4,5	8	0	CVPG	0,549	0,019	19%	0,444	0,654	8	
(2) Immunoturbidimetry; (116) Sentinel Diagnostics		0,490	0,03	6,1	6	0	CVPG	0,49	0,041	19%	0,396	0,584	6	
(3) Immunonephelometry; (12) Beckman Coulter		0,513	0,061	12	11	0	CVPG	0,513	0,045	19%	0,415	0,611	11	
(3) Immunonephelometry; (149) Siemens (Dade)		0,420	0,055	13	13	0	CVPG	0,42	0,038	19%	0,34	0,5	13	
Other					6	0						0		
Sample B		0,260	0,042	16	71							65	62	95%
(2) Immunoturbidimetry; (5) Dialab		0,275	0,037	13	5	0	CVPG	0,275	0,10	19%	0,222	0,328	5	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,230	0,059	26	7	0	CVPG	0,23	0,058	19%	0,186	0,274	7	
(2) Immunoturbidimetry; (60) Roche		0,218	0,02	9,3	15	0	CVPG	0,218	0,013	19%	0,176	0,26	15	
(2) Immunoturbidimetry; (91) Binding Site		0,278	0,026	9,3	8	0	CVPG	0,278	0,020	19%	0,225	0,331	8	
(2) Immunoturbidimetry; (116) Sentinel Diagnostics		0,305	0,007	2,4	6	0	CVPG	0,305	0,010	19%	0,247	0,363	6	
(3) Immunonephelometry; (12) Beckman Coulter		0,277	0,016	5,9	11	0	CVPG	0,277	0,012	19%	0,224	0,33	11	
(3) Immunonephelometry; (149) Siemens (Dade)		0,247	0,025	10	13	0	CVPG	0,247	0,017	19%	0,2	0,294	13	
Other					6	0						0		
(50) Orosomucoid					69							69	66	96%
Samples and groups	[g/L]													
Sample A		1,27	0,084	6,6	69	CVP	1,27	0,025	20%	1,01	1,53	69	67	97%
(2) Immunoturbidimetry		1,26	0,08	6,4	48	0						48		
(3) Immunonephelometry		1,29	0,093	7,1	21	0						21		
Sample B		0,643	0,055	8,5	69	CVP	0,643	0,016	20%	0,514	0,772	69	68	99%
(2) Immunoturbidimetry		0,646	0,061	9,4	48	0						48		
(3) Immunonephelometry		0,639	0,041	6,4	21	0						21		
(51) Haptoglobin					69							69	65	94%
Samples and groups	[g/L]													
Sample A		1,73	0,082	4,7	69	CVP	1,73	0,024	13%	1,5	1,96	69	66	96%
(2) Immunoturbidimetry		1,71	0,069	4,0	52	0						52		
(3) Immunonephelometry		1,79	0,073	4,1	17	0						17		
Sample B		0,921	0,042	4,6	69	CVP	0,921	0,012	13%	0,801	1,05	69	67	97%
(2) Immunoturbidimetry		0,920	0,037	4,1	52	0						52		
(3) Immunonephelometry		0,927	0,053	5,7	17	0						17		
(52) C4 complement					136							136	130	96%
Samples and groups	[g/L]													
Sample A		0,395	0,031	7,8	136	CVP	0,395	,0065	21%	0,312	0,478	136	133	98%
(2) Immunoturbidimetry		0,398	0,031	7,8	97	0						97		
(3) Immunonephelometry		0,388	0,028	7,3	39	0						39		
Sample B		0,206	0,015	7,2	136	CVP	0,206	,0031	21%	0,162	0,25	136	132	97%
(2) Immunoturbidimetry		0,209	0,014	6,7	97	0						97		
(3) Immunonephelometry		0,197	0,015	7,6	39	0						39		
(53) a-2-macroglobulin					28							28	24	86%
Samples and groups	[g/L]													
Sample A		2,50	0,27	11	28	CVP	2,5	0,13	21%	1,97	3,03	28	26	93%
(2) Immunoturbidimetry		2,53	0,35	14	11	0						11		
(3) Immunonephelometry		2,47	0,16	6,6	17	0						17		
Sample B		1,44	0,13	8,9	28	CVP	1,44	0,059	21%	1,13	1,75	28	26	93%
(2) Immunoturbidimetry		1,51	0,19	12	11	0						11		
(3) Immunonephelometry		1,40	0,096	6,9	17	0						17		

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EQA round: PRO2/17 - Specific Proteins

Dead line: 15.09.2017

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability								
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(55) Total protein					188							188	182	97%	
--- Samples and groups ---	[g/L]														
Sample A		103	3,3	3,2	188		CVP	103	0,58	8%	94,7	112	188	184	98%
(1) Biuret		103	3,3	3,2	186	0							186		
Other					2	0							2		
-----							2x 99								
Sample B		55,4	1,6	2,9	188		CVP	55,4	0,29	8%	50,9	59,9	188	185	98%
(1) Biuret		55,4	1,6	2,9	186	0							186		
Other					2	0							2		
-----							2x 99								
st_kn_p							End of report								Printed: 22.09.2017