

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 5

EQA round: PRO2/18 - Specific Proteins

Dead line: 31.08.2018

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					215							215	211	98%
Samples and groups	[g/L]													
Sample A		1,34	0,073	5,5	215	CVP	1,34	0,012	16%	1,12	1,56	215	212	99%
(2) Immunoturbidimetry		1,35	0,065	4,8	178	0						178		
(3) Immunonephelometry		1,30	0,11	8,8	37	0						37		
Sample B		1,41	0,074	5,3	215	CVP	1,41	0,012	16%	1,18	1,64	215	212	99%
(2) Immunoturbidimetry		1,41	0,063	4,5	178	0						178		
(3) Immunonephelometry		1,36	0,14	9,9	37	0						37		
(42) IgG					216							216	214	99%
Samples and groups	[g/L]													
Sample A		5,70	0,25	4,3	216	CVP	5,7	0,041	15%	4,84	6,56	216	214	99%
(2) Immunoturbidimetry		5,67	0,25	4,4	179	0						179		
(3) Immunonephelometry		5,81	0,24	4,1	37	0						37		
Sample B		4,47	0,21	4,6	216	CVP	4,47	0,035	15%	3,79	5,15	216	215	100%
(2) Immunoturbidimetry		4,45	0,20	4,4	179	0						179		
(3) Immunonephelometry		4,56	0,23	5,0	37	0						37		
(43) IgM					214							214	204	95%
Samples and groups	[g/L]													
Sample A		0,421	0,024	5,7	214	CVP	0,421	,0040	18%	0,345	0,497	214	206	96%
(2) Immunoturbidimetry		0,419	0,024	5,7	177	0						177		
(3) Immunonephelometry		0,429	0,022	5,2	37	0						37		
Sample B		0,444	0,026	5,8	214	CVP	0,444	,0043	18%	0,364	0,524	214	209	98%
(2) Immunoturbidimetry		0,444	0,026	5,8	177	0						177		
(3) Immunonephelometry		0,443	0,026	5,9	37	0						37		
(44) Transferrin					196							196	194	99%
Samples and groups	[g/L]													
Sample A		1,77	0,07	3,9	196	CVP	1,77	0,012	14%	1,52	2,02	196	194	99%
(2) Immunoturbidimetry		1,77	0,068	3,8	176	0						176		
(3) Immunonephelometry		1,74	0,096	5,5	20	0						20		
Sample B		1,60	0,065	4,0	196	CVP	1,6	0,011	14%	1,37	1,83	196	196	100%
(2) Immunoturbidimetry		1,61	0,063	3,9	176	0						176		
(3) Immunonephelometry		1,59	0,083	5,2	20	0						20		
(46) alpha-1-antitrypsin					83							83	81	98%
Samples and groups	[g/L]													
Sample A		0,981	0,10	10	83	CVP	0,981	0,028	25%	0,735	1,23	83	82	99%
(2) Immunoturbidimetry		0,991	0,096	9,7	55	0						55		
(3) Immunonephelometry		0,960	0,11	11	27	0						27		
Other					1	0						1		
Sample B		1,55	0,15	9,4	83	CVP	1,55	0,039	25%	1,16	1,94	83	81	98%
(2) Immunoturbidimetry		1,52	0,12	8,0	55	0						55		
(3) Immunonephelometry		1,59	0,18	11	27	0						27		
Other					1	0						1		
						1x0								
(47) C3 complement					131							131	129	98%
Samples and groups	[g/L]													
Sample A		1,07	0,061	5,6	131	CVP	1,07	0,013	17%	0,888	1,26	131	130	99%
(2) Immunoturbidimetry		1,08	0,066	6,2	94	0						94		
(3) Immunonephelometry		1,07	0,051	4,8	37	0						37		
Sample B		1,75	0,094	5,4	131	CVP	1,75	0,020	17%	1,45	2,05	131	129	98%
(2) Immunoturbidimetry		1,76	0,099	5,6	94	0						94		
(3) Immunonephelometry		1,72	0,088	5,1	37	0						37		
(48) Prealbumin					114							114	110	96%
Samples and groups	[g/L]													
Sample A		0,319	0,016	5,0	114	CVP	0,319	,0037	23%	0,245	0,393	114	114	100%
(2) Immunoturbidimetry		0,319	0,017	5,2	97	0						97		
(3) Immunonephelometry		0,318	0,014	4,2	16	0						16		
Other					1	0						1		
Sample B		0,563	0,039	6,8	114	CVP	0,563	,0088	23%	0,433	0,693	114	110	96%
(2) Immunoturbidimetry		0,561	0,039	7,0	97	0						97		
(3) Immunonephelometry		0,570	0,028	4,9	16	0						16		
Other					1	0						1		
						1x0								

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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}	
(49) Ceruloplasmin					68							62	59	95%	
Samples and groups	[g/L]														
Sample A		0,329	0,058	18	68							62	61	98%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,326	0,021	6,4	8	0	CVPG	0,326	0,016	19%	0,264	0,388	8		
(2) Immunoturbidimetry; (60) Roche		0,290	0,023	7,9	16	0	CVPG	0,29	0,014	19%	0,234	0,346	16		
(2) Immunoturbidimetry; (91) Binding Site		0,257	0,034	13	8	0	CVPG	0,257	0,026	19%	0,208	0,306	8		
(2) Immunoturbidimetry; (116) Sentinel Diagnostics		0,350	0,03	8,5	5	0	CVPG	0,34	0,062	19%	0,275	0,405	5		
(3) Immunonephelometry; (12) Beckman Coulter		0,315	0,014	4,4	11	0	CVPG	0,315	0,010	19%	0,255	0,375	11		
(3) Immunonephelometry; (149) Siemens (Dade)		0,402	0,028	6,9	13	0	CVPG	0,402	0,019	19%	0,325	0,479	13		
Other					7	0							1		
								2x 2/1, 2x 2/5, 2x 2/49, 1x 3/116							
Sample B		0,649	0,091	14	68							62	59	95%	
(2) Immunoturbidimetry; (58) Beckman Coulter (Olympus)		0,615	0,022	3,6	8	0	CVPG	0,615	0,017	19%	0,498	0,732	8		
(2) Immunoturbidimetry; (60) Roche		0,586	0,055	9,3	16	0	CVPG	0,586	0,034	19%	0,474	0,698	16		
(2) Immunoturbidimetry; (91) Binding Site		0,599	0,082	14	8	0	CVPG	0,599	0,063	19%	0,485	0,713	8		
(2) Immunoturbidimetry; (116) Sentinel Diagnostics		0,620	0,045	7,2	5	0	CVPG	0,62	0,062	19%	0,502	0,738	5		
(3) Immunonephelometry; (12) Beckman Coulter		0,653	0,046	7,0	11	0	CVPG	0,653	0,034	19%	0,528	0,778	11		
(3) Immunonephelometry; (149) Siemens (Dade)		0,776	0,065	8,3	13	0	CVPG	0,776	0,044	19%	0,628	0,924	13		
Other					7	0							1		
								2x 2/1, 2x 2/5, 2x 2/49, 1x 3/116							
(50) Orosomucoid					66							66	60	91%	
Samples and groups	[g/L]														
Sample A		0,688	0,061	8,9	66		CVP	0,688	0,018	20%	0,55	0,826	66	62	94%
(2) Immunoturbidimetry		0,676	0,059	8,8	45	0							45		
(3) Immunonephelometry		0,714	0,048	6,7	21	0							21		
Sample B		1,03	0,12	12	66		CVP	1,03	0,036	20%	0,824	1,24	66	61	92%
(2) Immunoturbidimetry		1,01	0,08	7,9	45	0							45		
(3) Immunonephelometry		1,06	0,16	15	21	0							21		
(51) Haptoglobin					67							67	62	93%	
Samples and groups	[g/L]														
Sample A		0,930	0,04	4,3	67		CVP	0,93	0,012	13%	0,809	1,06	67	64	96%
(2) Immunoturbidimetry		0,925	0,032	3,5	50	0							50		
(3) Immunonephelometry		0,948	0,069	7,3	17	0							17		
Sample B		1,33	0,068	5,1	67		CVP	1,33	0,020	13%	1,15	1,51	67	63	94%
(2) Immunoturbidimetry		1,31	0,05	3,8	50	0							50		
(3) Immunonephelometry		1,41	0,095	6,8	17	0							17		
(52) C4 complement					131							131	129	98%	
Samples and groups	[g/L]														
Sample A		0,215	0,021	9,6	131		CVP	0,215	,0044	21%	0,169	0,261	131	129	98%
(2) Immunoturbidimetry		0,211	0,022	10	94	0							94		
(3) Immunonephelometry		0,223	0,013	5,6	37	0							37		
Sample B		0,511	0,041	8,0	131		CVP	0,511	,0088	21%	0,403	0,619	131	129	98%
(2) Immunoturbidimetry		0,513	0,045	8,8	94	0							94		
(3) Immunonephelometry		0,508	0,03	5,8	37	0							37		
(53) a-2-macroglobulin					25							25	24	96%	
Samples and groups	[g/L]														
Sample A		1,22	0,085	7,0	25		CVP	1,22	0,042	21%	0,963	1,48	25	24	96%
(2) Immunoturbidimetry		1,23	0,089	7,2	8	0							8		
(3) Immunonephelometry		1,20	0,091	7,6	17	0							17		
Sample B		0,970	0,088	9,0	25		CVP	0,97	0,043	21%	0,766	1,18	25	25	100%
(2) Immunoturbidimetry		1,00	0,089	8,9	8	0							8		
(3) Immunonephelometry		0,954	0,094	9,8	17	0							17		
(55) Total protein					190							190	186	98%	
Samples and groups	[g/L]														
Sample A		49,8	4,2	8,4	190		CVP	49,8	0,75	17%	41,3	58,3	190	189	99%
(1) Biuret		49,8	4,2	8,4	189	0							189		
Other					1	0							1		
								1x 99							
Sample B		68,7	3,4	5,0	190		CVP	68,7	0,61	10%	61,8	75,6	190	186	98%
(1) Biuret		68,7	3,4	5,0	189	0							189		
Other					1	0							1		
								1x 99							

Summary statistics - quantitative results

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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}
(56) Soluble Transferrin Receptor (sTfR)					50							47	46	98%
----- Samples and groups -----														
Sample A					50							47	46	98%
(2) Immunoturbidimetry; (60) Roche		1,40	0,57	41	30	0	CVPG	1,78	0,048	30%	1,24	2,32	30	
(3) Immunonephelometry; (149) Siemens (Dade)		0,800	0,059	7,4	9	0	CVPG	0,8	0,073	30%	0,56	1,04	9	
(99) Another measurement principle; (12) Beckman Coulter		0,820	0,045	5,4	7	0	CVPG	0,835	0,051	30%	0,584	1,09	7	
Other					4	0							1	
----- 1x 1/58, 1x 2/12, 2x 2/166 -----														
Sample B		1,18	0,45	39	50							47	47	100%
(2) Immunoturbidimetry; (60) Roche		1,49	0,11	7,3	30	0	CVPG	1,49	0,048	30%	1,04	1,94	30	
(3) Immunonephelometry; (149) Siemens (Dade)		0,660	0,089	13	9	0	CVPG	0,66	0,11	30%	0,462	0,858	9	
(99) Another measurement principle; (12) Beckman Coulter		0,830	0,10	13	7	0	CVPG	0,83	0,079	30%	0,581	1,08	7	
Other					4	0							1	
----- 1x 1/58, 1x 2/12, 2x 2/166 -----														

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End of report

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