

## Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, 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 <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]						Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(41) IgA</b>					48							48	48	100%
Samples and groups	[g/L]													
<b>Sample A</b>		1,63	0,071	4,4	48	CVP	1,63	0,010	16%	1,36	1,9	48	48	100%
(2) Immunoturbidimetry		1,63	0,07	4,3	42	0						42		
(3) Immunonephelometry		1,65	0,067	4,1	6	0						6		
<b>Sample B</b>		2,84	0,084	3,0	48	CVP	2,84	0,014	16%	2,38	3,3	48	48	100%
(2) Immunoturbidimetry		2,84	0,077	2,7	42	0						42		
(3) Immunonephelometry		2,88	0,15	5,1	6	0						6		
<b>(42) IgG</b>					48							48	48	100%
Samples and groups	[g/L]													
<b>Sample A</b>		7,07	0,31	4,4	48	CVP	7,12	0,040	15%	6,05	8,19	48	48	100%
(2) Immunoturbidimetry		7,07	0,30	4,3	42	0						42		
(3) Immunonephelometry		7,03	0,39	5,6	6	0						6		
<b>Sample B</b>		12,3	0,47	3,8	48	CVP	12,4	0,073	15%	10,5	14,3	48	48	100%
(2) Immunoturbidimetry		12,3	0,45	3,7	42	0						42		
(3) Immunonephelometry		12,6	1,2	9,4	6	0						6		
<b>(43) IgM</b>					48							48	46	96%
Samples and groups	[g/L]													
<b>Sample A</b>		0,404	0,033	8,2	48	CVP	0,402	0,0048	18%	0,329	0,475	48	46	96%
(2) Immunoturbidimetry		0,406	0,035	8,5	42	0						42		
(3) Immunonephelometry		0,390	0,03	7,6	6	0						6		
<b>Sample B</b>		0,741	0,044	5,9	48	CVP	0,733	0,0054	18%	0,601	0,865	48	47	98%
(2) Immunoturbidimetry		0,741	0,046	6,2	42	0						42		
(3) Immunonephelometry		0,730	0,045	6,1	6	0						6		
<b>(44) Transferrin</b>					33							33	32	97%
Samples and groups	[g/L]													
<b>Sample A</b>		2,03	0,068	3,4	33	CVP	2,05	0,012	14%	1,76	2,34	33	32	97%
(2) Immunoturbidimetry		2,03	0,059	2,9	29	0						29		
Other					4	0						4		
<b>Sample B</b>		3,57	0,11	3,0	33	CVP	3,59	0,021	14%	3,08	4,1	33	32	97%
(2) Immunoturbidimetry		3,58	0,10	2,8	29	0						29		
Other					4	0						4		
<b>(46) alpha-1-antitrypsin</b>					22							22	17	77%
Samples and groups	[g/L]													
<b>Sample A</b>		0,470	0,076	16	22	CVP	0,461	0,015	25%	0,345	0,577	22	18	82%
(2) Immunoturbidimetry		0,463	0,069	15	18	0						18		
Other					4	0						4		
<b>Sample B</b>		0,861	0,079	9,2	22	CVP	0,835	0,030	25%	0,626	1,05	22	19	86%
(2) Immunoturbidimetry		0,844	0,08	9,5	18	0						18		
Other					4	0						4		
<b>(47) C3 complement</b>					31							31	30	97%
Samples and groups	[g/L]													
<b>Sample A</b>		1,01	0,049	4,9	31	CVP	1,02	0,010	17%	0,846	1,2	31	30	97%
(2) Immunoturbidimetry		1,01	0,04	4,0	27	0						27		
Other					4	0						4		
<b>Sample B</b>		1,84	0,074	4,0	31	CVP	1,87	0,019	17%	1,55	2,19	31	30	97%
(2) Immunoturbidimetry		1,84	0,068	3,7	27	0						27		
Other					4	0						4		
<b>(48) Prealbumin</b>					16							16	15	94%
Samples and groups	[g/L]													
<b>Sample A</b>		0,220	0,02	9,3	16	CVP	0,218	0,0032	23%	0,167	0,269	16	15	94%
(2) Immunoturbidimetry		0,223	0,022	9,7	14	0						14		
Other					2	0						2		
<b>Sample B</b>		0,495	0,037	7,5	16	CVP	0,485	0,0054	23%	0,373	0,597	16	15	94%
(2) Immunoturbidimetry		0,495	0,041	8,3	14	0						14		
Other					2	0						2		

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Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability						N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
<b>(49) Ceruloplasmin</b>	[g/L]				18								16	13	81%
Samples and groups															
Sample A		0,175	0,041	23	18								16	14	88%
(2) Immunoturbidimetry; Beckman Coulter (AU)		0,163	0,011	6,8	5	0	CVPG	0,16	0,011	19%	0,129	0,191	5		
Other					13	0							11		
								2x 2/1, 2x 2/5, 2x 2/12, 3x 2/60, 2x 2/91, 2x 3/149							
Sample B		0,378	0,087	23	18								16	14	88%
(2) Immunoturbidimetry; Beckman Coulter (AU)		0,365	0,007	2,0	5	0	CVPG	0,35	0,023	19%	0,283	0,417	5		
Other					13	0							11		
								2x 2/1, 2x 2/5, 2x 2/12, 3x 2/60, 2x 2/91, 2x 3/149							
<b>(50) Orosomucoid</b>	[g/L]				14								14	12	86%
Samples and groups															
Sample A		0,561	0,066	12	14		CVP	0,544	0,013	20%	0,435	0,653	14	12	86%
(2) Immunoturbidimetry		0,555	0,07	13	12	0							12		
Other					2	0							2		
								2x 3							
Sample B		0,968	0,091	9,4	14		CVP	0,953	0,018	20%	0,762	1,15	14	12	86%
(2) Immunoturbidimetry		0,957	0,086	9,0	12	0							12		
Other					2	0							2		
								2x 3							
<b>(51) Haptoglobin</b>	[g/L]				18								18	16	89%
Samples and groups															
Sample A		0,910	0,047	5,2	18		CVP	0,921	0,011	13%	0,801	1,05	18	16	89%
(2) Immunoturbidimetry		0,908	0,058	6,4	15	0							15		
Other					3	0							3		
								3x 3							
Sample B		1,61	0,087	5,4	18		CVP	1,63	0,021	13%	1,41	1,85	18	16	89%
(2) Immunoturbidimetry		1,62	0,083	5,1	15	0							15		
Other					3	0							3		
								3x 3							
<b>(52) C4 complement</b>	[g/L]				31								31	26	84%
Samples and groups															
Sample A		0,173	0,016	9,1	31		CVP	0,171	0,0030	21%	0,135	0,207	31	26	84%
(2) Immunoturbidimetry		0,173	0,019	11	27	0							27		
Other					4	0							4		
								4x 3							
Sample B		0,561	0,04	7,0	31		CVP	0,549	0,0081	21%	0,433	0,665	31	30	97%
(2) Immunoturbidimetry		0,565	0,039	6,8	27	0							27		
Other					4	0							4		
								4x 3							
<b>(53) a-2-macroglobulin</b>	[g/L]				8								8	8	100%
Samples and groups															
Sample A		1,42	0,16	11	8		CVP	1,46	0,058	21%	1,15	1,77	8	8	100%
(2) Immunoturbidimetry		1,44	0,065	4,5	5	0							5		
Other					3	0							3		
								3x 3							
Sample B		2,55	0,29	11	8		CVP	2,59	0,11	21%	2,04	3,14	8	8	100%
(2) Immunoturbidimetry		2,56	0,21	8,0	5	0							5		
Other					3	0							3		
								3x 3							
<b>(55) Total protein</b>	[g/L]				42								42	42	100%
Samples and groups															
Sample A		44,8	4,1	9,3	42		CVP	44,6	0,76	20%	35,6	53,6	42	42	100%
(1) Biuret		44,8	4,1	9,3	42	0							42		
Sample B		79,9	3,1	3,9	42		CVP	80,2	0,53	12%	70,5	89,9	42	42	100%
(1) Biuret		79,9	3,1	3,9	42	0							42		
<b>(56) Soluble Transferrin Receptor (sTfR)</b>	[mg/L]				17								11	10	91%
Samples and groups															
Sample A		0,950	0,32	34	17								11	10	91%
Other					17	0							11		
								1x 2/12, 1x 2/60, 2x 2/999, 2x 3/149, 3x 4/12, 3x 6/60, 1x 6/149, 4x 6/999							
Sample B		1,72	0,57	33	17								11	10	91%
Other					17	0							11		
								1x 2/12, 1x 2/60, 2x 2/999, 2x 3/149, 3x 4/12, 3x 6/60, 1x 6/149, 4x 6/999							

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End of report

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