

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of the groups n = 5

EQA round: AM1/22 - Basic Clinical Chemistry - Urine

Deadline: 08.04.2022

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}
(61) Sodium					50							50	49	98%
Samples and groups	[mmol/L]													
Sample A		80,0	1,6	2,0	50	CVP	80,3	0,29	11%	71,4	89,2	50	49	98%
(2) Indirect ISE		80,0	1,6	2,0	47	0						47		
Other					3	0						3		
Sample B		175	2,6	1,5	50	CVP	176	0,41	11%	156	196	50	49	98%
(2) Indirect ISE		175	2,4	1,4	47	0						47		
Other					3	0						3		
(62) Potassium					50							50	48	96%
Samples and groups	[mmol/L]													
Sample A		30,4	0,80	2,6	50	CVP	30,5	0,13	15%	25,9	35,1	50	49	98%
(2) Indirect ISE		30,4	0,80	2,6	47	0						47		
Other					3	0						3		
Sample B		69,9	2,3	3,4	50	CVP	69,7	0,38	15%	59,2	80,2	50	48	96%
(2) Indirect ISE		69,8	2,3	3,3	47	0						47		
Other					3	0						3		
(63) Chloride					50							50	50	100%
Samples and groups	[mmol/L]													
Sample A		103	3,3	3,2	50	CVP	102	0,58	14%	87,7	117	50	50	100%
(3) Indirect ISE		103	3,5	3,4	46	0						46		
Other					4	0						4		
Sample B		204	5,2	2,5	50	CVP	202	0,83	14%	173	231	50	50	100%
(3) Indirect ISE		204	5,3	2,6	46	0						46		
Other					4	0						4		
(64) Calcium					50							50	49	98%
Samples and groups	[mmol/L]													
Sample A		1,60	0,087	5,5	50	CVP	1,61	0,011	18%	1,32	1,9	50	50	100%
(2) Phot. with o-cresol.		1,58	0,10	6,5	10	0						10		
(3) Phot. with arsenazo		1,60	0,096	6,0	30	0						30		
(4) Photomet. with NM-BAPTA		1,61	0,05	3,1	10	0						10		
Sample B		2,49	0,12	4,7	50	CVP	2,48	0,016	18%	2,03	2,93	50	49	98%
(2) Phot. with o-cresol.		2,53	0,051	2,0	10	0						10		
(3) Phot. with arsenazo		2,48	0,16	6,3	30	0						30		
(4) Photomet. with NM-BAPTA		2,48	0,095	3,8	10	0						10		
(73) Magnesium					50							50	50	100%
Samples and groups	[mmol/L]													
Sample A		1,66	0,064	3,8	50	CVP	1,67	0,012	20%	1,33	2,01	50	50	100%
(2) Photometry with coloured dyes		1,67	0,071	4,3	39	0						39		
(4) Enzymatic UV method		1,66	0,045	2,7	11	0						11		
Sample B		3,61	0,12	3,5	50	CVP	3,62	0,022	20%	2,89	4,35	50	50	100%
(2) Photometry with coloured dyes		3,61	0,13	3,6	39	0						39		
(4) Enzymatic UV method		3,61	0,11	3,0	11	0						11		
(65) Inorganic phosphate					50							50	50	100%
Samples and groups	[mmol/L]													
Sample A		8,46	0,32	3,8	50	CVP	8,51	0,060	18%	6,97	10,1	50	50	100%
(1) UV-molybdate method		8,46	0,33	3,9	48	0						48		
Other					2	0						2		
Sample B		16,1	0,53	3,3	50	CVP	16,2	0,11	18%	13,2	19,2	50	50	100%
(1) UV-molybdate method		16,1	0,56	3,5	48	0						48		
Other					2	0						2		
(66) Osmolality					21							21	20	95%
Samples and groups	[mmol/kg]													
Sample A		438	4,4	1,0	21	CVP	439	0,79	4%	421	457	21	20	95%
(1) Osmometer		438	4,10,95		20	0						20		
Other					1	0						1		
Sample B		811	8,5	1,0	21	CVP	812	1,6	4%	779	845	21	20	95%

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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}	
(66) Osmolality	[mmol/kg]				21							21	20	95%	
Samples and groups															
Sample B		811	8,5	1,0	21	CVP	812	1,6	4%	779	845	21	20	95%	
(1) Osmometer		811	7,80	96	20	0						20			
Other					1	0						1			
						1x 99									
(67) Urea	[mmol/L]				50							50	49	98%	
Samples and groups															
Sample A		145	6,9	4,8	50	CVP	146	1,1	17%	121	171	50	49	98%	
(1) UV enzymatic m.(GMD)		146	7,0	4,8	49	1						49			
Other					1	0						1			
						1x 2									
Sample B		252	9,8	3,9	50	CVP	254	1,8	17%	210	298	50	49	98%	
(1) UV enzymatic m.(GMD)		252	9,7	3,9	49	1						49			
Other					1	0						1			
						1x 2									
(68) Creatinine	[mmol/L]				50							50	50	100%	
Samples and groups															
Sample A		5,46	0,24	4,4	50	CVP	5,47	0,039	16%	4,59	6,35	50	50	100%	
(1) Jaffe		5,45	0,26	4,7	25	0						25			
(3) Enzyme		5,46	0,23	4,2	25	0						25			
Sample B		12,9	0,59	4,6	50	CVP	12,9	0,087	16%	10,8	15	50	50	100%	
(1) Jaffe		12,8	0,67	5,3	25	0						25			
(3) Enzyme		12,9	0,52	4,0	25	0						25			
(69) Uric acid	[mmol/L]				49							49	49	100%	
Samples and groups															
Sample A		0,860	0,043	5,0	49	CVP	0,855	,0066	23%	0,658	1,06	49	49	100%	
(2) Enzyme-photomet. m.		0,860	0,043	5,0	49	0						49			
Sample B		1,28	0,054	4,2	49	CVP	1,28	,0082	23%	0,985	1,58	49	49	100%	
(2) Enzyme-photomet. m.		1,28	0,054	4,2	49	0						49			
(70) Glucose	[mmol/L]				49							49	49	100%	
Samples and groups															
Sample A		1,60	0,05	3,1	49	CVP	1,61	,0077	22%	1,25	1,97	49	49	100%	
(1) GOD photometry		1,61	0,082	5,1	8	0						8			
(3) Method with hexokinase		1,59	0,046	2,9	39	0						39			
Other					2	0						2			
						2x 2									
Sample B		16,3	0,34	2,1	49	CVP	16,4	0,066	22%	12,7	20,1	49	49	100%	
(1) GOD photometry		16,5	0,36	2,2	8	0						8			
(3) Method with hexokinase		16,2	0,33	2,0	39	0						39			
Other					2	0						2			
						2x 2									
(71) Total protein	[g/L]				50							42	42	100%	
Samples and groups															
Sample A		0,204	0,024	12	50							42	42	100%	
(2) Pyrogallol red; (58) Beckman Coulter (AU)		0,213	0,012	5,5	13	0	CVPG	0,218	,0029	30%	0,152	0,284	13		
(4) Turbidimetry; (1) Abbott		0,212	0,008	3,9	8	0	CVPG	0,219	,0038	30%	0,153	0,285	8		
(4) Turbidimetry; (60) Roche		0,176	0,006	3,5	12	0	CVPG	0,178	,0030	30%	0,124	0,232	12		
Other					17	0						9			
							2x 1/1, 1x 1/12, 2x 1/58, 1x 1/60, 1x 1/178, 2x 2/12, 2x 2/60, 3x 2/75, 1x 2/149, 1x 2/179, 1x 4/77								
Sample B		0,627	0,074	12	50							42	42	100%	
(2) Pyrogallol red; (58) Beckman Coulter (AU)		0,667	0,013	2,0	13	0	CVPG	0,673	,0062	30%	0,471	0,875	13		
(4) Turbidimetry; (1) Abbott		0,651	0,019	3,0	8	0	CVPG	0,663	,0070	30%	0,464	0,862	8		
(4) Turbidimetry; (60) Roche		0,528	0,016	3,0	12	0	CVPG	0,531	,0059	30%	0,371	0,691	12		
Other					17	0						9			
							2x 1/1, 1x 1/12, 2x 1/58, 1x 1/60, 1x 1/178, 2x 2/12, 2x 2/60, 3x 2/75, 1x 2/149, 1x 2/179, 1x 4/77								
(72) pH	[-]				8							8	7	88%	
Samples and groups															
Sample A		6,16	0,21	3,4	8	CVP	6,07	0,035	5%	5,76	6,38	8	7	88%	
(1) Glass electrode		6,16	0,21	3,4	8	0						8			
Sample B		6,25	0,25	4,0	8	CVP	6,17	0,054	5%	5,86	6,48	8	7	88%	
(1) Glass electrode		6,25	0,25	4,0	8	0						8			

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End of report

Printed: 13.04.2022