

## Summary statistics - quantitative results

(Groups: measurement principle)

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

Deadline: 09.04.2021

## EQA round: AM1/21 - Basic Clinical Chemistry - Urine

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										Traceability										
		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>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(61) Sodium</b>					49							49	49	100%								0
Samples and groups	[mmol/L]																					
<b>Sample A</b>		69,2	1,4	2,1	49	CVP	69,3	0,22	11%	61,6	77	49	49	100%								0
(2) Indirect ISE		69,2	1,4	2,1	46	0						46										
Other					3	0						3										
<b>Sample B</b>		168	2,8	1,7	49	CVP	168	0,42	11%	149	187	49	49	100%								0
(2) Indirect ISE		168	2,6	1,5	46	0						46										
Other					3	0						3										
<b>(62) Potassium</b>					49							49	49	100%								0
Samples and groups	[mmol/L]																					
<b>Sample A</b>		25,8	0,73	2,8	49	CVP	25,8	0,10	15%	21,9	29,7	49	49	100%								0
(2) Indirect ISE		25,8	0,75	2,9	46	0						46										
Other					3	0						3										
<b>Sample B</b>		64,5	2,9	4,5	49	CVP	64,8	0,40	15%	55	74,6	49	49	100%								0
(2) Indirect ISE		64,4	2,9	4,4	46	0						46										
Other					3	0						3										
<b>(63) Chloride</b>					49							49	47	96%								0
Samples and groups	[mmol/L]																					
<b>Sample A</b>		70,1	2,3	3,2	49	CVP	69,9	0,44	14%	60,1	79,7	49	48	98%								0
(3) Indirect ISE		70,0	2,1	3,0	45	0						45										
Other					4	0						4										
<b>Sample B</b>		195	6,0	3,1	49	CVP	195	0,74	14%	167	223	49	48	98%								0
(3) Indirect ISE		196	5,8	3,0	45	0						45										
Other					4	0						4										
<b>(64) Calcium</b>					49							49	49	100%								0
Samples and groups	[mmol/L]																					
<b>Sample A</b>		2,05	0,07	3,8	49	CVP	2,06	0,016	18%	1,68	2,44	49	49	100%								0
(2) Phot. with o-cresol.		2,05	0,13	6,2	11	0						11										
(3) Phot. with arsenazo		2,04	0,07	3,5	29	0						29										
(4) Photomet. with NM-BAPTA		2,10	0,05	2,8	9	0						9										
<b>Sample B</b>		3,04	0,12	3,9	49	CVP	3,04	0,020	18%	2,49	3,59	49	49	100%								0
(2) Phot. with o-cresol.		3,08	0,17	5,7	11	0						11										
(3) Phot. with arsenazo		3,02	0,12	4,1	29	0						29										
(4) Photomet. with NM-BAPTA		3,06	0,08	2,9	9	0						9										

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Test	[unit]	Comparability										Traceability											
		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>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(73) Magnesium</b>	[mmol/L]				48							48	48	100%									0
Samples and groups																							
<b>Sample A</b>		2,59	0,10	4,0	48	CVP	2,6	0,019	20%	2,08	3,12	48	48	100%									0
(2) Photometry with coloured dyes		2,58	0,10	4,0	41	0						41											
(4) Enzymatic UV method		2,60	0,09	3,7	7	0						7											
<b>Sample B</b>		4,94	0,17	3,5	48	CVP	4,94	0,029	20%	3,95	5,93	48	48	100%									0
(2) Photometry with coloured dyes		4,92	0,19	3,8	41	0						41											
(4) Enzymatic UV method		4,96	0,14	2,8	7	0						7											
<b>(65) Inorganic phosphate</b>	[mmol/L]				49							49	49	100%									0
Samples and groups																							
<b>Sample A</b>		7,19	0,31	4,4	49	CVP	7,17	0,050	18%	5,87	8,47	49	49	100%									0
(1) UV-molybdate method		7,18	0,32	4,5	47	0						47											
Other					2	0						2											
							1x2, 1x3																
<b>Sample B</b>		14,2	0,45	3,2	49	CVP	14,2	0,084	18%	11,6	16,8	49	49	100%									0
(1) UV-molybdate method		14,2	0,45	3,2	47	0						47											
Other					2	0						2											
							1x2, 1x3																
<b>(66) Osmolality</b>	[mmol/kg]				21							21	20	95%									0
Samples and groups																							
<b>Sample A</b>		336	5,0	1,5	21	CVP	337	0,75	4%	323	351	21	20	95%									0
(1) Osmometer		336	4,7	1,4	20	0						20											
Other					1	0						1											
							1x99																
<b>Sample B</b>		780	11	1,5	21	CVP	782	1,5	4%	750	814	21	20	95%									0
(1) Osmometer		781	10	1,3	20	0						20											
Other					1	0						1											
							1x99																
<b>(67) Urea</b>	[mmol/L]				49							49	48	98%									0
Samples and groups																							
<b>Sample A</b>		139	6,0	4,3	49	CVP	139	0,99	17%	115	163	49	48	98%									0
(1) UV enzymatic m.(GMD)		139	6,1	4,4	48	0						48											
Other					1	0						1											
							1x2																
<b>Sample B</b>		292	12	4,0	49	CVP	295	2,0	17%	244	346	49	49	100%									0
(1) UV enzymatic m.(GMD)		293	12	4,1	48	0						48											
Other					1	0						1											
							1x2																
<b>(68) Creatinine</b>	[mmol/L]				49							0											49
Samples and groups																							49
<b>Sample A</b>		5,95	0,32	5,3	49							0		RV	6,02	0,11	21%	4,75	7,29			49	
(1) Jaffe		5,86	0,39	6,7	25	0																	25
(3) Enzyme		6,03	0,26	4,3	24	0																	24
<b>Sample B</b>		12,6	0,58	4,6	49							0		RV	12,59	0,17	21%	9,94	15,3			49	
(1) Jaffe		12,5	0,57	4,5	25	0																	25
(3) Enzyme		12,7	0,61	4,8	24	0																	24

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Test	[unit]	Comparability					Traceability																
		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>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(69) Uric acid</b>	[mmol/L]				48							48	45	94%									0
Samples and groups																							
<b>Sample A</b>		0,324	0,03	9,5	48	CVP	0,325	,0046	23%	0,25	0,4	48	46	96%									0
(2) Enzyme-photomet. m.		0,324	0,03	9,5	48	0						48											
<b>Sample B</b>		0,700	0,04	6,5	48	CVP	0,698	,0062	23%	0,537	0,859	48	46	96%									0
(2) Enzyme-photomet. m.		0,700	0,04	6,5	48	1						48											
<b>(70) Glucose</b>	[mmol/L]				48							48	48	100%									0
Samples and groups																							
<b>Sample A</b>		1,54	0,05	3,6	48	CVP	1,54	,0099	22%	1,2	1,88	48	48	100%									0
(1) GOD photometry		1,52	0,07	4,8	12	0						12											
(3) Method with hexokinase		1,54	0,04	3,2	34	0						34											
Other					2	0						2											
						2x2																	
<b>Sample B</b>		16,4	0,38	2,3	48	CVP	16,4	0,071	22%	12,7	20,1	48	48	100%									0
(1) GOD photometry		16,3	0,43	2,6	12	0						12											
(3) Method with hexokinase		16,4	0,39	2,4	34	0						34											
Other					2	0						2											
						2x2																	
<b>(71) Total protein</b>	[g/L]				49							41	38	93%									0
Samples and groups																							
<b>Sample A</b>		0,206	0,07	36	49							41	38	93%									0
(2) Pyrogallol red; (58) Beckman Coulter (AU)		0,259	0,01	4,2	13	0	CVPG	0,259	,0037	30%	0,181	0,337	13										
(4) Turbidimetry; (1) Abbott		0,230	0,01	7,4	6	0	CVPG	0,243	,0047	30%	0,17	0,316	6										
(4) Turbidimetry; (60) Roche		0,101	0,01	17	11	0	CVPG	0,106	,0037	30%	0,074	0,138	11										
Other					19	0						11											
<b>Sample B</b>		0,688	0,13	18	49							41	40	98%									0
(2) Pyrogallol red; (58) Beckman Coulter (AU)		0,767	0,02	3,5	13	0	CVPG	0,776	,0093	30%	0,543	1,01	13										
(4) Turbidimetry; (1) Abbott		0,786	0,03	4,8	6	0	CVPG	0,813	,0094	30%	0,569	1,06	6										
(4) Turbidimetry; (60) Roche		0,530	0,04	9,0	11	0	CVPG	0,538	0,013	30%	0,376	0,7	11										
Other					19	0						11											
<b>(72) pH</b>	[-]				10							10	10	100%									0
Samples and groups																							
<b>Sample A</b>		6,75	0,07	1,0	10	CVP	6,75	0,046	5%	6,41	7,09	10	10	100%									0
(1) Glass electrode		6,75	0,07	1,0	10	0						10											
<b>Sample B</b>		6,70	0,06	0,94	10	CVP	6,71	0,039	5%	6,37	7,05	10	10	100%									0
(1) Glass electrode		6,70	0,06	0,94	10	0						10											

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End of report

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