

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of groups n = 5

Dead line: 12.10.2018

EQA round: AM2/18 - 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 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										Traceability											
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(61) Sodium					42								42	40	95%								0
Samples and groups	[mmol/L]																						
Sample A		205	4,0	1,9	42	CVP	205	0,54	11%	182	228	42	41	98%								0	
(2) Indirect ISE		204	3,9	1,9	40	0						40											
Other					2	0						2											
						2x 3																	
Sample B		63,5	2,0	3,2	42	CVP	63,8	0,27	11%	56,7	70,9	42	41	98%								0	
(2) Indirect ISE		63,4	2,0	3,2	40	0						40											
Other					2	0						2											
						2x 3																	
(62) Potassium					42								42	38	90%								0
Samples and groups	[mmol/L]																						
Sample A		126	6,2	4,9	42	CVP	126	0,74	15%	107	145	42	40	95%								0	
(2) Indirect ISE		126	6,6	5,3	40	0						40											
Other					2	0						2											
						2x 3																	
Sample B		31,4	1,2	3,7	42	CVP	31,4	0,14	15%	26,6	36,2	42	40	95%								0	
(2) Indirect ISE		31,4	1,2	3,8	40	0						40											
Other					2	0						2											
						2x 3																	
(63) Chloride					42								42	39	93%								0
Samples and groups	[mmol/L]																						
Sample A		269	7,8	2,9	42	CVP	265	1,3	14%	227	303	42	41	98%								0	
(3) Indirect ISE		269	8,3	3,1	39	0						39											
Other					3	0						3											
						1x 2, 2x 4																	
Sample B		85,0	4,2	5,0	42	CVP	85,2	0,67	14%	73,2	97,2	42	39	93%								0	
(3) Indirect ISE		85,0	4,3	5,1	39	0						39											
Other					3	0						3											
						1x 2, 2x 4																	
(64) Calcium					42								42	40	95%								0
Samples and groups	[mmol/L]																						
Sample A		4,36	0,24	5,4	42	CVP	4,42	0,036	18%	3,62	5,22	42	41	98%								0	
(2) Phot. with o-cresol.		4,59	0,25	5,5	8	0						8											
(3) Phot. with arsenazo		4,26	0,20	4,6	28	0						28											
(4) Complex Ca-NM-BAPTA		4,52	0,13	2,8	6	0						6											
Sample B		1,57	0,06	4,4	42	CVP	1,57	0,099	18%	1,28	1,86	42	41	98%								0	
(2) Phot. with o-cresol.		1,59	0,08	5,6	8	0						8											
(3) Phot. with arsenazo		1,57	0,07	5,0	28	0						28											
(4) Complex Ca-NM-BAPTA		1,58	0,03	2,4	6	0						6											

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		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}			
(73) Magnesium	[mmol/L]				39							39	36	92%									0		
Samples and groups																									
Sample A		13,3	0,87	6,5	39	CVP	13,4	0,16	20%	10,7	16,1	39	38	97%									0		
(2) Photometry with coloured dyes		13,2	0,85	6,4	37	0						37													
Other					2	0						2													
						2x 4																			
Sample B		3,17	0,13	4,1	39	CVP	3,19	0,023	20%	2,55	3,83	39	37	95%									0		
(2) Photometry with coloured dyes		3,17	0,14	4,3	37	0						37													
Other					2	0						2													
						2x 4																			
(65) Inorganic phosphate	[mmol/L]				41							41	40	98%									0		
Samples and groups																									
Sample A		26,9	0,85	3,1	41	CVP	27	0,15	18%	22,1	31,9	41	41	100%									0		
(1) UV-molybdate method		26,9	0,86	3,2	40	0						40													
Other					1	0						1													
						1x 3																			
Sample B		9,16	0,37	4,1	41	CVP	9,19	0,058	18%	7,53	10,9	41	40	98%									0		
(1) UV-molybdate method		9,16	0,38	4,1	40	0						40													
Other					1	0						1													
						1x 3																			
(66) Osmolality	[mmol/kg]				17							17	14	82%									0		
Samples and groups																									
Sample A		1140	17	1,5	17	CVP	1140	3,4	4%	1090	1190	17	15	88%									0		
(1) Osmometer		1140	15	1,3	16	0						16													
Other					1	0						1													
						1x 99																			
Sample B		403	6,8	1,7	17	CVP	403	1,2	4%	386	420	17	14	82%									0		
(1) Osmometer		403	6,3	1,6	16	0						16													
Other					1	0						1													
						1x 99																			
(67) Urea	[mmol/L]				41							41	38	93%									0		
Samples and groups																									
Sample A		475	23	4,9	41	CVP	483	3,5	17%	400	566	41	39	95%									0		
(1) UV enzymatic m.(GMD)		475	24	5,0	40	0						40													
Other					1	0						1													
						1x 2																			
Sample B		155	7,9	5,1	41	CVP	156	1,2	17%	129	183	41	39	95%									0		
(1) UV enzymatic m.(GMD)		155	8,1	5,2	40	0						40													
Other					1	0						1													
						1x 2																			
(68) Creatinine	[mmol/L]				41							0											41	39	95%
Samples and groups																									
Sample A		16,5	0,74	4,5	41							0	RV	16,15	0,67	21%	12,7	19,6					41	40	98%
(2) Jaffé without depro.		16,4	0,66	4,0	24	0																	24		
(3) Enzyme		16,7	0,97	5,8	17	0																	17		
Sample B		7,15	0,30	4,2	41							0	RV	7,04	0,17	21%	5,56	8,52					41	39	95%
(2) Jaffé without depro.		7,10	0,25	3,6	24	0																	24		
(3) Enzyme		7,22	0,40	5,5	17	0																	17		

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		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(69) Uric acid					40						40	39	98%									0
Samples and groups	[mmol/L]																					
Sample A		1,31	0,07	5,5	40	CVP	1,3	0,011	23%	1	1,6	40	40	100%								0
(2) Enzyme-photomet. m.		1,31	0,07	5,5	40	0						40										
Sample B		0,738	0,06	8,1	40	CVP	0,73	0,077	23%	0,562	0,898	40	39	98%								0
(2) Enzyme-photomet. m.		0,738	0,06	8,1	40	0						40										
(70) Glucose					41							41	39	95%								0
Samples and groups	[mmol/L]																					
Sample A		14,2	0,67	4,7	41	CVP	14,3	0,097	22%	11,1	17,5	41	41	100%								0
(1) GOD photometry		14,4	0,57	3,9	13	0						13										
(3) Method with hexokinase		14,2	0,68	4,8	27	0						27										
Other					1	0						1										
						1x 2																
Sample B		2,70	0,13	4,7	41	CVP	2,72	0,017	22%	2,12	3,32	41	39	95%								0
(1) GOD photometry		2,70	0,15	5,5	13	0						13										
(3) Method with hexokinase		2,70	0,12	4,4	27	0						27										
Other					1	0						1										
						1x 2																
(71) Total protein					42							37	34	92%								0
Samples and groups	[g/L]																					
Sample A		0,259	0,03	14	42							37	36	97%								0
(2) Pyrogallol red; (58) Beckman Coulter (Olympus)		0,288	0,01	4,2	16	1	CVPG	0,284	0,043	30%	0,198	0,37	16									
(4) Turbidimetry; (60) Roche		0,230	0,00	3,7	10	0	CVPG	0,23	0,031	30%	0,161	0,299	10									
Other					16	0						11										
Sample B		0,134	0,02	18	42							37	34	92%								0
(2) Pyrogallol red; (58) Beckman Coulter (Olympus)		0,146	0,01	8,4	16	1	CVPG	0,142	0,035	30%	0,099	0,185	16									
(4) Turbidimetry; (60) Roche		0,111	0,00	2,8	10	0	CVPG	0,109	0,020	30%	0,076	0,142	10									
Other					16	0						11										
(72) pH					8							8	5	63%								0
Samples and groups	[-]																					
Sample A		6,00	0,30	4,9	8	CVP	6,16	0,045	5%	5,85	6,47	8	5	63%								0
(1) Glass electrode		6,16	0,06	1,1	7	0						7										
Other					1	0						1										
Sample B		6,12	0,17	2,8	8	CVP	6,21	0,054	5%	5,89	6,53	8	6	75%								0
(1) Glass electrode		6,18	0,07	1,2	7	0						7										
Other					1	0						1										

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End of report

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