

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of groups n = 5

EQA round: AKS3/18 - Basic Clinical Chemistry - Serum

Dead line: 27.07.2018

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}			
(4) Calcium					110							0									110	109	99%		
Samples and groups	[mmol/L]																								
Sample A		3,45	0,10	2,9	110							0		CRV	3,471	0,052	8%	3,19	3,75	110	109	99%			
(4) Complex Ca-NM-BAPTA		3,50	0,05	1,6	23	0															23				
Other					4	0																4			
Sample B		2,85	0,08	2,8	110							0		4x6 CRV	2,846	0,043	8%	2,61	3,08	110	110	100%			
(2) Phot. with o-cresolftalexon		2,83	0,11	3,7	19	0															19				
(3) Photom. with arsenazo III		2,85	0,07	2,6	64	0															64				
(4) Complex Ca-NM-BAPTA		2,86	0,07	2,5	23	0															23				
Other					4	0																4			
														4x6											
(5) Inorganic phosphate					103							103	100	97%								0			
Samples and groups	[mmol/L]																								
Sample A		1,03	0,04	3,9	103		CVP	1,03	,0097	10%	0,927	1,14			103	102	99%					0			
(1) UV-molybdate method		1,03	0,04	3,9	100	0									100										
Other					3	0									3										
Sample B		1,35	0,04	3,0	103		2x2, 1x3 CVP	1,35	,0098	10%	1,21	1,49			103	100	97%					0			
(1) UV-molybdate method		1,35	0,04	3,1	100	0									100										
Other					3	0									3										
							2x2, 1x3																		
(6) Iron					96							96	95	99%								0			
Samples and groups	[µmol/L]																								
Sample A		38,3	1,0	2,7	96		CVP	38,3	0,26	15%	32,5	44,1			96	96	100%					0			
(2) Method with ferrozine/ferene		38,4	1,1	3,0	74	0									74										
(4) Method with TPTZ		38,1	0,66	1,7	22	0									22										
Sample B		42,7	1,1	2,5	96		CVP	42,7	0,26	15%	36,2	49,2			96	95	99%					0			
(2) Method with ferrozine/ferene		42,8	1,2	2,8	74	0									74										
(4) Method with TPTZ		42,3	0,53	1,3	22	0									22										
(7) Magnesium					101										0							101	95	94%	
Samples and groups	[mmol/L]																								
Sample A		0,757	0,03	4,5	101										0		CRV	0,725	0,011	15%	0,616	0,834	101	96	95%
(2) Photometry		0,762	0,03	4,4	86	0																86			
(4) UV enzyme method		0,723	0,04	5,5	15	0																15			
Sample B		1,41	0,04	3,2	101										0		CRV	1,383	0,021	15%	1,17	1,6	101	98	97%
(2) Photometry		1,41	0,04	2,8	86	0																86			
(4) UV enzyme method		1,37	0,06	4,8	15	0																15			
(8) Lithium					17										0							17	17	100%	
Samples and groups	[mmol/L]																								
Sample A		1,53	0,06	4,3	17										0		CRV	1,58	0,024	12%	1,39	1,77	17	17	100%
(1) Flame emission phot.		1,55	0,05	3,8	5	0																5			
(4) Photometry		1,51	0,02	1,5	7	0																7			
Other					5	0																	5		
Sample B		1,19	0,04	3,9	17										0		1x2, 4x3 CRV	1,2	0,018	12%	1,05	1,35	17	17	100%
(1) Flame emission phot.		1,20	0,02	1,9	5	0																	5		

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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}		
(8) Lithium					17																17	17	100%	
Samples and groups	[mmol/L]																							
Sample B		1,19	0,04	3,9	17									0		CRV	1,2	0,018	12%	1,05	1,35	17	17	100%
(4) Photometry		1,16	0,08	7,7	7	0																7		
Other					5	0																5		
																1x 2, 4x 3								
(9) Total protein					112									0							112	110	98%	
Samples and groups	[g/L]																							
Sample A		67,7	1,7	2,5	112									0		CRV	67,99	0,80	9%	61,8	74,2	112	111	99%
(1) Biuret		67,7	1,7	2,5	112	0																112		
Sample B		83,3	2,0	2,5	112									0		CRV	84,94	0,99	9%	77,2	92,6	112	110	98%
(1) Biuret		83,3	2,0	2,5	112	0																112		
(10) Albumin					108									108	104	96%								0
Samples and groups	[g/L]																							
Sample A		43,2	1,6	3,8	108		CVP	43,2	0,39	10%	38,8	47,6		108	105	97%								0
(1) BCG		43,4	1,6	3,7	97	0								97										
(2) BCP		41,7	1,3	3,2	11	0								11										
Sample B		51,9	1,7	3,3	108		CVP	51,9	0,41	10%	46,7	57,1		108	106	98%								0
(1) BCG		52,1	1,7	3,3	97	0								97										
(2) BCP		50,6	1,3	2,6	11	0								11										
(11) Osmolality					44									44	40	91%								0
Samples and groups	[mmol/kg]																							
Sample A		309	6,3	2,0	44		CVP	309	2,3	5%	293	325		44	42	95%								0
(1) Osmometer		309	6,3	2,0	44	0								44										
Sample B		296	8,5	2,9	44		CVP	296	3,1	5%	281	311		44	41	93%								0
(1) Osmometer		296	8,5	2,9	44	0								44										
(12) Lactate					52									52	52	100%								0
Samples and groups	[mmol/L]																							
Sample A		1,98	0,06	3,4	52		CVP	1,98	0,023	15%	1,68	2,28		52	52	100%								0
(1) UV enzyme method		1,97	0,07	3,8	26	0								26										
(3) Photometric enzyme method		1,99	0,06	3,2	23	0								23										
Other					3	0								3										
																3x 2								
Sample B		2,95	0,12	4,0	52		CVP	2,95	0,040	15%	2,5	3,4		52	52	100%								0
(1) UV enzyme method		2,94	0,13	4,4	26	0								26										
(3) Photometric enzyme method		2,95	0,12	3,9	23	0								23										
Other					3	0								3										
																3x 2								
(13) Bilirubin total					116									0							116	114	98%	
Samples and groups	[µmol/L]																							
Sample A		30,2	2,6	8,5	116									0		CRV	29,6	0,90	21%	23,3	35,9	116	115	99%
(1) Jendrassik-Gróf		30,5	2,6	8,5	26	0																26		
(2) DCA, DPD		30,0	2,6	8,8	80	0																80		
(4) Oxidation-reduction methods		31,3	0,82	2,6	9	0																9		
Other					1	0																1		
																1x 0								
Sample B		82,9	5,3	6,4	116									0		CRV	82,8	2,0	21%	65,4	101	116	115	99%

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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}	
(13) Bilirubin total					116							0									116	114	98%
Samples and groups	[µmol/L]																						
Sample B		82,9	5,3	6,4	116							0		CRV	82,8	2,0	21%	65,4	101		116	115	99%
(1) Jendrassik-Gróf		83,1	5,2	6,3	26	0															26		
(2) DCA, DPD		82,2	5,0	6,0	80	0															80		
(4) Oxidation-reduction methods		88,8	1,6	1,8	9	0															9		
Other					1	0															1		
														1x 0									
(15) Cholesterol					108							6	6	100%							102	100	98%
Samples and groups	[mmol/L]																						
Sample A		3,89	0,16	4,0	108							6	6	100%							102	101	99%
(1) Enzyme method CHOD-PAP		3,91	0,14	3,7	102	0								CRV	3,955	0,040	9%	3,59	4,32		102		
(1) Enzyme method CHOD-PAP; (149) Siemens (Dade)		3,47	0,08	2,4	6	0	CVPG	3,47	0,11	6,5%	3,24	3,7									6		
Sample B		5,53	0,23	4,1	108							6	6	100%							102	100	98%
(1) Enzyme method CHOD-PAP		5,55	0,21	3,8	102	0								CRV	5,672	0,057	9%	5,16	6,19		102		
(1) Enzyme method CHOD-PAP; (149) Siemens (Dade)		5,13	0,05	1,0	6	0	CVPG	5,13	0,073	6,5%	4,79	5,47									6		
(16) Glucose					120							0									120	116	97%
Samples and groups	[mmol/L]																						
Sample A		4,15	0,12	2,9	120							0		CRV	4,189	0,042	8%	3,85	4,53		120	119	99%
(1) GOD photometry		4,20	0,14	3,3	25	0															25		
(3) Method with hexokinase		4,14	0,11	2,8	91	0															91		
Other					4	0															4		
Sample B		5,21	0,14	2,8	120							0		4x 2 CRV	5,411	0,054	8%	4,97	5,85		120	116	97%
(1) GOD photometry		5,24	0,12	2,3	25	0															25		
(3) Method with hexokinase		5,20	0,15	2,9	91	0															91		
Other					4	0															4		
														4x 2									
(17) Uric acid					113							0									113	112	99%
Samples and groups	[µmol/L]																						
Sample A		604	17	2,9	113							0		CRV	614,3	6,1	12%	540	689		113	112	99%
(2) Enzyme-photomet. m.		604	17	2,9	113	0															113		
Sample B		463	12	2,6	113							0		CRV	471,6	4,7	12%	415	529		113	113	100%
(2) Enzyme-photomet. m.		463	12	2,6	113	0															113		
(18) Urea					117							0									117	117	100%
Samples and groups	[mmol/L]																						
Sample A		31,2	1,3	4,0	117							0		CRV	32,33	0,32	15%	27,4	37,2		117	117	100%
(1) UV enzymatic m.(GMD)		31,2	1,3	4,1	113	0															113		
Other					4	0															4		
Sample B		14,7	0,56	3,8	117							0		1x 2, 3x 5 CRV	14,93	0,15	15%	12,6	17,2		117	117	100%
(1) UV enzymatic m.(GMD)		14,7	0,58	3,9	113	0															113		
Other					4	0															4		
														1x 2, 3x 5									

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(19) Creatinine					119						0				119	118	99%			
Samples and groups	[µmol/L]																			
Sample A		390	14	3,6	119						0	CRV	391	3,9	13%	340	442	119	118	99%
(2) Jaffé without depro. (with corr.)		389	18	4,6	52	0												52		
(3) Enzyme		391	12	3,1	63	0												63		
Other					4	0												4		
-----												2x 1, 2x 4								
Sample B		348	14	3,9	119						0	CRV	351	3,5	13%	305	397	119	118	99%
(2) Jaffé without depro. (with corr.)		347	18	5,2	52	0												52		
(3) Enzyme		349	11	3,0	63	0												63		
Other					4	0												4		
-----												2x 1, 2x 4								
(20) Triglycerides					109						0							109	107	98%
Samples and groups	[mmol/L]																			
Sample A		0,909	0,04	5,2	109						0	CRV	0,928	0,093	15%	0,788	1,07	109	107	98%
(1) Photometric enzyme (GPO-PAP)		0,909	0,04	5,2	105	0												105		
Other					4	0												4		
-----												4x 2								
Sample B		2,37	0,08	3,5	109						0	CRV	2,412	0,024	15%	2,05	2,78	109	107	98%
(1) Photometric enzyme (GPO-PAP)		2,37	0,08	3,5	105	0												105		
Other					4	0												4		
-----												4x 2								
(21) ALP					116						0							116	115	99%
Samples and groups	[µkat/L]																			
Sample A		2,78	0,32	12	116						0	CRV	2,894	0,070	24%	2,19	3,59	116	116	100%
(3) IFCC method		2,78	0,32	12	115	0												115		
Other					1	0												1		
-----												1x 1								
Sample B		3,36	0,35	10	116						0	CRV	3,582	0,082	24%	2,72	4,45	116	115	99%
(3) IFCC method		3,36	0,34	10	115	0												115		
Other					1	0												1		
-----												1x 1								
(22) alpha-amylase					113						6	6	100%					107	106	99%
Samples and groups	[µkat/L]																			
Sample A		7,17	0,42	5,9	113						6	6	100%					107	106	99%
(1) IFCC method		7,12	0,37	5,3	107	0								CRV	7,243	0,20	15%	6,15	8,33	107
(1) IFCC method; (149) Siemens (Dade)		8,95	0,47	5,3	6	0	CVPG	8,95	0,66	9,5%	8,09	9,81					6			
-----												6	6	100%						
Sample B		8,84	0,49	5,6	113						6	6	100%					107	106	99%
(1) IFCC method		8,79	0,44	5,0	107	0								CRV	9,01	0,25	15%	7,65	10,4	107
(1) IFCC method; (149) Siemens (Dade)		10,9	0,75	6,9	6	0	CVPG	10,9	1,0	9,5%	9,86	12					6			

(23) AST					117						0							117	112	96%
Samples and groups	[µkat/L]																			
Sample A		1,68	0,08	5,1	117						0	CRV	1,675	0,037	15%	1,42	1,93	117	115	98%
(1) IFCC method		1,68	0,08	5,1	117	0												117		

Sample B		3,27	0,17	5,2	117						0	CRV	3,267	0,072	15%	2,77	3,76	117	112	96%

