

Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

EQA round: ABR2/20 - Acid-base Status and Electrolytes

Deadline: 24.07.2020

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}
(131) pH					73							73	72	99%
Samples and groups	[-]													
Sample A		7,17	0,0090	14	73	CVP	7,17	0,0028	0,8%	7,11	7,23	73	73	100%
(433) Radiometer ABL (series 700 and 800)		7,16	0,0040	0,06	39	0						39		
(449) Roche OMNI S1-6 / cobas b221		7,18	0,0050	0,07	7	0						7		
(452) Radiometer ABL 90		7,16	0,0060	0,08	15	0						15		
Other					12	0						12		
							2x 405, 1x 410, 1x 411, 1x 414, 1x 420, 2x 448, 2x 451, 2x 454							
Sample B		7,43	0,0060	0,08	73	CVP	7,43	0,0018	0,8%	7,37	7,49	73	72	99%
(433) Radiometer ABL (series 700 and 800)		7,43	0,0040	0,06	39	0						39		
(449) Roche OMNI S1-6 / cobas b221		7,43	0,0060	0,09	7	0						7		
(452) Radiometer ABL 90		7,43	0,0040	0,06	15	0						15		
Other					12	0						12		
							2x 405, 1x 410, 1x 411, 1x 414, 1x 420, 2x 448, 2x 451, 2x 454							
(132) pCO2					73							73	73	100%
Samples and groups	[kPa]													
Sample A		8,05	0,28	3,5	73	CVP	8,05	0,080	12%	7,08	9,02	73	73	100%
(433) Radiometer ABL (series 700 and 800)		8,01	0,22	2,8	39	0						39		
(449) Roche OMNI S1-6 / cobas b221		8,50	0,38	4,5	7	0						7		
(452) Radiometer ABL 90		7,88	0,16	2,1	15	0						15		
Other					12	0						12		
							2x 405, 1x 410, 1x 411, 1x 414, 1x 420, 2x 448, 2x 451, 2x 454							
Sample B		4,84	0,13	2,7	73	CVP	4,84	0,037	12%	4,25	5,43	73	73	100%
(433) Radiometer ABL (series 700 and 800)		4,82	0,086	1,8	39	0						39		
(449) Roche OMNI S1-6 / cobas b221		5,04	0,14	2,8	7	0						7		
(452) Radiometer ABL 90		4,79	0,075	1,6	15	0						15		
Other					12	0						12		
							2x 405, 1x 410, 1x 411, 1x 414, 1x 420, 2x 448, 2x 451, 2x 454							
(133) pO2					70									0
Samples and groups	[kPa]													
Sample A		6,35	0,96	15	70									0
(60) Roche; (449) Roche OMNI S1-6 / cobas b221		10,9	0,13	1,2	6	2	CVPG	9,77	2,3	20%	7,81	11,8		0
(61) Radiometer; (433) Radiometer ABL (series 700 and 800)		6,35	0,29	4,5	39	0	CVPG	6,3	0,12	20%	5,04	7,56		0
(61) Radiometer; (452) Radiometer ABL 90		3,47	0,17	4,8	13	11	CVPG	6,3	0,12	20%	5,04	7,56		0
Other					12	0								0
							1x 11/414, 1x 38/411, 1x 53/420, 2x 60/448, 2x 61/451, 2x 179/405, 1x 179/410, 2x 179/454							
Sample B		16,5	0,60	3,6	70	CVP	16,5	0,18	17%	13,6	19,4	70	70	100%
(433) Radiometer ABL (series 700 and 800)		16,7	0,33	2,0	39	0						39		
(449) Roche OMNI S1-6 / cobas b221		16,8	1,2	7,3	6	0						6		
(452) Radiometer ABL 90		16,0	0,47	2,9	13	0						13		
Other					12	0						12		
							2x 405, 1x 410, 1x 411, 1x 414, 1x 420, 2x 448, 2x 451, 2x 454							
(134) Sodium cation (ISE)					49							49	49	100%
Samples and groups	[mmol/L]													
Sample A		117	0,940	0,81	49	CVP	117	0,33	5%	111	123	49	49	100%
(433) Radiometer ABL (series 700 and 800)		117	1,00	0,90	26	0						26		
(452) Radiometer ABL 90		117	0,560	0,48	14	0						14		
Other					9	0						9		
							1x 410, 1x 420, 3x 449, 1x 451, 3x 454							
Sample B		142	1,6	1,1	49	CVP	142	0,56	5%	134	150	49	49	100%
(433) Radiometer ABL (series 700 and 800)		142	1,00	0,74	26	0						26		
(452) Radiometer ABL 90		144	0,000	0,00	14	0						14		
Other					9	0						9		
							1x 410, 1x 420, 3x 449, 1x 451, 3x 454							
(135) Potassium cation (ISE)					50							50	48	96%
Samples and groups	[mmol/L]													
Sample A		2,26	0,059	2,6	50	CVP	2,26	0,021	8%	2,07	2,45	50	48	96%
(433) Radiometer ABL (series 700 and 800)		2,27	0,052	2,3	27	0						27		
(452) Radiometer ABL 90		2,27	0,053	2,3	14	0						14		

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(135) Potassium cation (ISE)	[mmol/L]				50								50	48	96%
Samples and groups															
Sample A		2,26	0,059	2,6	50		CVP	2,26	0,021	8%	2,07	2,45	50	48	96%
Other					9	1							9		
----- 1x 410, 1x 420, 3x 449, 1x 451, 3x 454 -----															
Sample B		4,10	0,0090	2,3	50		CVP	4,1	0,0033	8%	3,77	4,43	50	50	100%
(433) Radiometer ABL (series 700 and 800)		4,10	0,0000	0,00	27	0							27		
(452) Radiometer ABL 90		4,10	0,0000	0,00	14	0							14		
Other					9	0							9		
----- 1x 410, 1x 420, 3x 449, 1x 451, 3x 454 -----															
(136) Chloride anion (ISE)	[mmol/L]				50								50	48	96%
Samples and groups															
Sample A		78,4	1,7	2,2	50		CVP	78,4	0,60	7%	72,9	83,9	50	48	96%
(433) Radiometer ABL (series 700 and 800)		79,1	1,4	1,7	26	0							26		
(452) Radiometer ABL 90		77,0	0,0000	0,00	14	0							14		
Other					10	0							10		
----- 1x 410, 1x 420, 3x 449, 1x 451, 3x 454, 1x 999 -----															
Sample B		105	1,6	1,5	50		CVP	105	0,54	7%	97,6	113	50	50	100%
(433) Radiometer ABL (series 700 and 800)		106	1,00	0,94	26	0							26		
(452) Radiometer ABL 90		104	0,0000	0,00	14	0							14		
Other					10	0							10		
----- 1x 410, 1x 420, 3x 449, 1x 451, 3x 454, 1x 999 -----															
(137) Calcium cation (ISE)	[mmol/L]				60								60	60	100%
Samples and groups															
Sample A		1,65	0,042	2,6	60		CVP	1,65	0,013	10%	1,48	1,82	60	60	100%
(433) Radiometer ABL (series 700 and 800)		1,67	0,027	1,6	33	0							33		
(449) Roche OMNI S1-6 / cobas b221		1,59	0,0080	0,56	5	0							5		
(452) Radiometer ABL 90		1,63	0,0140	0,87	14	0							14		
Other					8	0							8		
----- 1x 410, 1x 411, 1x 420, 1x 448, 1x 451, 3x 454 -----															
Sample B		0,938	0,023	2,4	60		CVP	0,938	0,0072	10%	0,844	1,04	60	60	100%
(433) Radiometer ABL (series 700 and 800)		0,949	0,017	1,7	33	0							33		
(449) Roche OMNI S1-6 / cobas b221		0,899	0,01	1,2	5	0							5		
(452) Radiometer ABL 90		0,935	0,0080	0,86	14	0							14		
Other					8	0							8		
----- 1x 410, 1x 411, 1x 420, 1x 448, 1x 451, 3x 454 -----															
(139) Glucose	[mmol/L]				43								43	43	100%
Samples and groups															
Sample A		21,1	0,81	3,8	43		CVP	21,1	0,30	15%	17,9	24,3	43	43	100%
(433) Radiometer ABL (series 700 and 800)		21,1	0,56	2,7	26	0							26		
(452) Radiometer ABL 90		20,6	1,3	6,5	14	0							14		
Other					3	0							3		
----- 1x 420, 2x 454 -----															
Sample B		8,84	0,30	3,3	43		CVP	8,84	0,11	15%	7,51	10,2	43	43	100%
(433) Radiometer ABL (series 700 and 800)		8,76	0,23	2,6	26	0							26		
(452) Radiometer ABL 90		8,93	0,33	3,7	14	0							14		
Other					3	0							3		
----- 1x 420, 2x 454 -----															
(169) Lactate	[mmol/L]				45								45	43	96%
Samples and groups															
Sample A		6,19	0,37	6,0	45		CVP	6,19	0,14	18%	5,07	7,31	45	44	98%
(433) Radiometer ABL (series 700 and 800)		6,01	0,28	4,7	27	0							27		
(452) Radiometer ABL 90		6,41	0,23	3,5	14	0							14		
Other					4	0							4		
----- 1x 410, 1x 420, 2x 454 -----															
Sample B		2,81	0,13	4,7	45		CVP	2,81	0,048	18%	2,3	3,32	45	43	96%
(433) Radiometer ABL (series 700 and 800)		2,75	0,11	4,0	27	0							27		
(452) Radiometer ABL 90		2,87	0,079	2,8	14	0							14		
Other					4	0							4		
----- 1x 410, 1x 420, 2x 454 -----															

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End of report

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