

EQA round: ABR2/24 - Acid-base Status and Electrolytes

Deadline: 26.7.2024

Setup: Slovakia

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N_{tot} = total number of the resultsN_{out} = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U_{AV} = expanded uncertainty of the assigned value (k = 2)D_{max} = acceptable difference

LL = lower limit

UL = upper limit

N_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{rel} = relative success

Test Sample Group	[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]				9							9	9	100
Sample A												9	9	100
All results		3,3	0	0	9	0	CVP	3,31	0,02	8%	3,04	3,58	9	
Sample B												9	9	100
All results		4,05	0,074	1,8	9	0	CVP	4,06	0,022	8%	3,73	4,39	9	
(139) Glucose	[mmol/L]				8							8	8	100
Sample A												8	8	100
All results		12,4	0,22	1,8	8	0	CVP	12,2	0,1	15%	10,3	14,1	8	
Sample B												8	8	100
All results		9,1	0,3	3,3	8	0	CVP	8,95	0,074	15%	7,6	10,3	8	
(136) Chloride anion (ISE)	[mmol/L]				9							9	9	100
Sample A												9	9	100
All results		94	1,5	1,6	9	0	CVP	93,4	0,52	7%	86,8	100	9	
Sample B												9	9	100
All results		103	1,5	1,4	9	0	CVP	102	0,59	7%	94,8	110	9	
(169) Lactate	[mmol/L]				7							7	6	86
Sample A												7	6	86
All results		4	0,44	11	7	0	CVP	4,08	0,071	18%	3,34	4,82	7	
Sample B												7	7	100
All results		2,9	0,59	20	7	0	CVP	2,82	0,04	18%	2,31	3,33	7	
(132) pCO₂	[kPa]				12							12	11	92
Sample A												12	12	100
All results		6,02	0,31	5,2	12	0	CVP	6,24	0,056	12%	5,49	6,99	12	
Sample B												12	11	92
All results		4,97	0,18	3,7	12	0	CVP	5,08	0,038	12%	4,47	5,69	12	
(131) pH	[-]				12							12	10	83
Sample A												12	11	92
All results		7,35	0,014	0,2	12	0	CVP	7,35	0,003	0,8%	7,29	7,41	12	
Sample B												12	11	92
All results		7,43	0,008	0,11	12	0	CVP	7,43	0,003	0,8%	7,37	7,49	12	
(133) pO₂	[kPa]				12							12	12	100
Sample A												12	12	100
All results		15,4	0,68	4,4	12	0	CVP	15,4	0,31	17%	12,7	18,1	12	
Sample B												12	12	100
All results		16,6	0,86	5,2	12	0	CVP	16,8	0,25	17%	13,9	19,7	12	
(134) Sodium cation (ISE)	[mmol/L]				9							9	9	100
Sample A												9	9	100
All results		135	0,74	0,55	9	0	CVP	136	0,62	5%	129	143	9	
Sample B												9	9	100
All results		143	0,74	0,52	9	0	CVP	144	0,71	5%	136	152	9	
(137) Calcium cation (ISE)	[mmol/L]				11							11	11	100
Sample A												11	11	100
All results		1,17	0,023	2	11	0	CVP	1,19	0,008	10%	1,07	1,31	11	
Sample B												11	11	100
All results		0,949	0,028	3	11	0	CVP	0,957	0,007	±0,1	0,857	1,06	11	