

EQA round: ABR3/23 - Acid-base Status and Electrolytes

Deadline: 24.11.2023

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]				28							28	28	100
Sample A												28	28	100
All results		3,29	0,029	0,87	28	0	CVP	3,29	0,009	8%	3,02	3,56	28	
Sample B												28	28	100
All results		4,03	0,073	1,8	28	0	CVP	4,05	0,011	8%	3,72	4,38	28	
(139) Glucose	[mmol/L]				23							23	23	100
Sample A												23	23	100
All results		12,1	0,64	5,3	23	0	CVP	12,1	0,058	15%	10,2	14	23	
Sample B												23	23	100
All results		8,94	0,41	4,5	23	0	CVP	8,87	0,042	15%	7,53	10,3	23	
(136) Chloride anion (ISE)	[mmol/L]				28							28	28	100
Sample A												28	28	100
All results		94,4	2,3	2,4	28	0	CVP	94	0,38	7%	87,4	101	28	
Sample B												28	28	100
All results		103	2,3	2,3	28	0	CVP	103	0,35	7%	95,7	111	28	
(169) Lactate	[mmol/L]				23							23	22	96
Sample A												23	22	96
All results		9,83	0,81	8,3	23	0	CVP	10	0,11	18%	8,2	11,8	23	
Sample B												23	22	96
All results		6,96	0,53	7,6	23	0	CVP	7,11	0,065	18%	5,83	8,39	23	
(132) pCO₂	[kPa]				49							49	48	98
Sample A												49	48	98
All results		6,31	0,23	3,6	49	0	CVP	6,28	0,032	12%	5,52	7,04	49	
Sample B												49	49	100
All results		5,31	0,15	2,9	49	0	CVP	5,26	0,022	12%	4,62	5,9	49	
(131) pH	[-]				49							49	48	98
Sample A												49	48	98
All results		7,34	0,013	0,17	49	0	CVP	7,34	0,002	0,8%	7,28	7,4	49	
Sample B												49	48	98
All results		7,41	0,012	0,16	49	0	CVP	7,41	0,002	0,8%	7,35	7,47	49	
(133) pO₂	[kPa]				49							49	44	90
Sample A												49	45	92
All results		15,7	1,2	7,5	49	0	CVP	15,5	0,11	17%	12,8	18,2	49	
Sample B												49	44	90
All results		17,4	1,1	6,1	49	0	CVP	17,3	0,09	12%	15,2	19,4	49	
(134) Sodium cation (ISE)	[mmol/L]				28							28	28	100
Sample A												28	28	100
All results		134	1,9	1,4	28	0	CVP	135	0,3	5%	128	142	28	
Sample B												28	28	100
All results		143	2,1	1,5	28	0	CVP	143	0,35	5%	135	151	28	
(137) Calcium cation (ISE)	[mmol/L]				33							33	33	100
Sample A												33	33	100
All results		1,2	0,023	1,9	33	0	CVP	1,19	0,004	10%	1,07	1,31	33	
Sample B												33	33	100
All results		0,977	0,022	2,3	33	0	CVP	0,971	0,004	±0,1	0,871	1,08	33	