

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

Deadline: 26.7.2024

Setup: all data

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	U _{AV} = expanded uncertainty of the assigned value (k = 2)	UL = upper limit
N _{tot} = total number of the results		N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{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]				67							67	67	100
Sample A												67	67	100
All results		3,31	0,067	2	67	0	CVP	3,31	0,02	8%	3,04	3,58	67	
Sample B												67	67	100
All results		4,06	0,072	1,8	67	0	CVP	4,06	0,022	8%	3,73	4,39	67	
(139) Glucose	[mmol/L]				60							60	60	100
Sample A												60	60	100
All results		12,2	0,32	2,6	60	0	CVP	12,2	0,1	15%	10,3	14,1	60	
Sample B												60	60	100
All results		8,95	0,24	2,6	60	0	CVP	8,95	0,074	15%	7,6	10,3	60	
(136) Chloride anion (ISE)	[mmol/L]				65							65	63	97
Sample A												65	63	97
All results		93,4	1,7	1,8	65	0	CVP	93,4	0,52	7%	86,8	100	65	
Sample B												65	65	100
All results		102	2	1,9	65	0	CVP	102	0,59	7%	94,8	110	65	
(169) Lactate	[mmol/L]				60							60	59	98
Sample A												60	59	98
All results		4,08	0,22	5,5	60	0	CVP	4,08	0,071	18%	3,34	4,82	60	
Sample B												60	60	100
All results		2,82	0,13	4,5	60	0	CVP	2,82	0,04	18%	2,31	3,33	60	
(132) pCO₂	[kPa]				90							90	89	99
Sample A												90	90	100
All results		6,24	0,22	3,5	90	0	CVP	6,24	0,056	12%	5,49	6,99	90	
Sample B												90	89	99
All results		5,08	0,15	2,9	90	0	CVP	5,08	0,038	12%	4,47	5,69	90	
(131) pH	[-]				90							90	88	98
Sample A												90	89	99
All results		7,35	0,011	0,14	90	0	CVP	7,35	0,003	0,8%	7,29	7,41	90	
Sample B												90	89	99
All results		7,43	0,01	0,13	90	0	CVP	7,43	0,003	0,8%	7,37	7,49	90	
(133) pO₂	[kPa]				90							90	88	98
Sample A												90	88	98
All results		15,4	1,2	7,7	90	0	CVP	15,4	0,31	17%	12,7	18,1	90	
Sample B												90	88	98
All results		16,8	0,98	5,8	90	0	CVP	16,8	0,25	17%	13,9	19,7	90	
(134) Sodium cation (ISE)	[mmol/L]				66							66	66	100
Sample A												66	66	100
All results		136	2,1	1,5	66	0	CVP	136	0,62	5%	129	143	66	
Sample B												66	66	100
All results		144	2,3	1,6	66	0	CVP	144	0,71	5%	136	152	66	
(137) Calcium cation (ISE)	[mmol/L]				78							78	77	99
Sample A												78	78	100
All results		1,19	0,029	2,4	78	0	CVP	1,19	0,008	10%	1,07	1,31	78	
Sample B												78	77	99
All results		0,957	0,026	2,7	78	0	CVP	0,957	0,007	±0,1	0,857	1,06	78	