

CueSee® VeriSTAT - Linearity Verification Material

Expected values for Abbott i-STAT®

🕒 2020-12

CLEW: A37/C37/H37/J37

All cartridge types, all cartridge lot numbers

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
LOT 220-B904		LOT 22001901		LOT 22002851		LOT 22003902		LOT 22004851		LOT 22005902	
	Unit	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R
pH	1	6.566	6.489 - 6.644	6.951	6.869 - 7.033	7.225	7.140 - 7.310	7.648	7.557 - 7.740	7.873	7.782 - 7.963
pCO ₂	mmHg	110.4	90.6 - 130.2	90.0	72.3 - 107.7	64.6	50.9 - 78.4	38.8	27.8 - 49.7	21.1	10.8 - 31.4
	kPa	14.68	12.05 - 17.31	11.97	9.62 - 14.32	8.60	6.77 - 10.43	5.16	3.70 - 6.62	2.81	1.44 - 4.18
pO ₂	mmHg	72	50 - 93	159	130 - 188	228	185 - 272	331	275 - 387	405	340 - 470
	kPa	9.5	6.7 - 12.4	21.1	17.2 - 25.0	30.4	24.6 - 36.2	44.0	36.5 - 51.4	53.8	45.2 - 62.5
Na ⁺	mmol/L, mEq/L	107	103 - 111	122	118 - 127	143	138 - 147	155	149 - 161	172	166 - 178
K ⁺	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.4	4.9 - 5.9	6.8	6.3 - 7.3	8.3	7.6 - 8.9
iCa ⁺⁺	mmol/L	2.15	2.02 - 2.29	1.80	1.68 - 1.91	1.38	1.29 - 1.46	0.39	0.30 - 0.47	0.92	0.84 - 0.99
	mEq/L	4.3	4.0 - 4.6	3.6	3.4 - 3.8	2.8	2.6 - 2.9	0.8	0.6 - 0.9	1.8	1.7 - 2.0
	mg/dL	8.6	8.1 - 9.2	7.2	6.7 - 7.7	5.5	5.2 - 5.8	1.5	1.2 - 1.9	3.7	3.4 - 4.0
Cl ⁻	mmol/L, mEq/L	108	101 - 114	74	68 - 79	127	118 - 135	85	79 - 91	100	94 - 107
tCO ₂	mmol/L, mEq/L	15	9 - 21	22	13 - 31	28	21 - 35	40	33 - 47	39	29 - 49
Glucose/ Glu	mg/dL	617	538 - 696	483	424 - 542	290	236 - 343	176	141 - 211	24	13 - 35
	g/L	6.17	5.38 - 6.96	4.83	4.24 - 5.42	2.90	2.36 - 3.43	1.76	1.41 - 2.11	0.24	0.13 - 0.35
	mmol/L	34.3	29.9 - 38.6	26.8	23.5 - 30.1	16.1	13.1 - 19.1	9.8	7.8 - 11.7	1.3	0.7 - 1.9
Lactate/ Lac	mmol/L	15.66	13.39 - 17.93	11.56	10.03 - 13.08	6.80	5.58 - 8.02	3.69	2.93 - 4.46	0.52	0.01 - 1.02
	mg/dL	141.1	120.6 - 161.5	104.1	90.4 - 117.9	61.3	50.3 - 72.2	33.3	26.4 - 40.2	4.6	0.1 - 9.2
	g/L	1.411	1.206 - 1.615	1.041	0.904 - 1.179	0.613	0.503 - 0.722	0.333	0.264 - 0.402	0.046	0.001 - 0.092
BUN	mg/dL	89	69 - 110	74	59 - 88	58	48 - 69	34	27 - 40	7	4 - 10
Urea	mmol/L	31.8	24.5 - 39.1	26.3	21.2 - 31.4	20.9	17.2 - 24.5	12.0	9.6 - 14.3	2.5	1.4 - 3.6
	mg/dL	191	147 - 235	158	127 - 189	125	103 - 147	72	58 - 86	15	9 - 22
	g/L	1.91	1.47 - 2.35	1.58	1.27 - 1.89	1.25	1.03 - 1.47	0.72	0.58 - 0.86	0.15	0.09 - 0.22
Creatinine/ Crea	μmol/L	30	0 - 61	421	336 - 505	703	572 - 834	1138	944 - 1332	1740	1490 - 1989
	mg/dL	0.3	0.0 - 0.7	4.8	3.8 - 5.7	8.0	6.5 - 9.4	12.9	10.7 - 15.1	19.7	16.9 - 22.5
Hct ¹	%PCV	16	12 - 19	27	23 - 31	39	35 - 44	52	47 - 57	62	57 - 67
Hct ²	%PCV	16	13 - 20	28	24 - 32	41	37 - 45	54	49 - 60	65	60 - 70

Level 1



22001901

Level 2



22002851

Level 3



22003902

Level 4



22004851

Level 5



22005902

¹ K₃EDTA

² K₂EDTA

CueSee® VeriSTAT - Linearity Verification Material

Expected values for Abbott i-STAT®

CLEW: A37/C37/H37/J37



2020-12

CG4+ & G3+

LOT D

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
		LOT 22001901		LOT 22002851		LOT 22003902		LOT 22004851		LOT 22005902	
LOT 220-B904	Unit	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R
pH	1	6.546	6.496 - 6.596	6.962	6.912 - 7.012	7.248	7.198 - 7.298	7.675	7.625 - 7.725	7.874	7.824 - 7.924
pCO ₂	mmHg	104.5	95.0 - 114.0	82.2	73.7 - 90.7	59.2	51.2 - 67.2	35.5	28.0 - 43.0	17.8	10.8 - 24.8
	kPa	13.90	12.64 - 15.16	10.93	9.80 - 12.06	7.88	6.81 - 8.94	4.72	3.72 - 5.72	2.37	1.44 - 3.30
pO ₂	mmHg	67	50 - 84	163	138 - 188	237	202 - 272	342	297 - 387	420	370 - 470
	kPa	9.0	6.7 - 11.2	21.7	18.4 - 25.0	31.5	26.8 - 36.2	45.4	39.4 - 51.4	55.8	49.2 - 62.5
Lactate/ Lac	mmol/L	15.39	13.39 - 17.39	11.53	10.03 - 13.03	6.58	5.58 - 7.58	3.68	2.93 - 4.43	0.51	0.01 - 1.01
	mg/dL	138.7	120.6 - 156.7	103.9	90.4 - 117.4	59.3	50.3 - 68.3	33.1	26.4 - 39.9	4.6	0.1 - 9.1
	g/L	1.387	1.206 - 1.567	1.039	0.904 - 1.174	0.593	0.503 - 0.683	0.331	0.264 - 0.399	0.046	0.001 - 0.091

CueSee® VeriSTAT - Linearity Verification Material

Expected values for Abbott i-STAT®

CLEW: A37/C37/H37/J37



2020-12

CG8+, EG7+, EG6+, G3+, Crea & CG4+

LOT A, K, L, M, N, W or Y

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
		LOT 22001901		LOT 22002851		LOT 22003902		LOT 22004851		LOT 22005902	
LOT 220-B904	Unit	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R
pH	1	6.594	6.544 - 6.644	6.983	6.933 - 7.033	7.260	7.210 - 7.310	7.690	7.640 - 7.740	7.913	7.863 - 7.963
pCO ₂	mmHg	100.1	90.6 - 109.6	80.8	72.3 - 89.3	58.9	50.9 - 66.9	35.3	27.8 - 42.8	19.0	12.0 - 26.0
	kPa	13.31	12.05 - 14.57	10.75	9.62 - 11.88	7.83	6.77 - 8.89	4.70	3.70 - 5.70	2.53	1.59 - 3.46
pO ₂	mmHg	76	59 - 93	155	130 - 180	220	185 - 255	320	275 - 365	390	340 - 440
	kPa	10.1	7.9 - 12.4	20.6	17.2 - 23.9	29.2	24.6 - 33.9	42.5	36.5 - 48.5	51.8	45.2 - 58.5
Na ⁺	mmol/L, mEq/L	107	103 - 111	123	119 - 127	143	139 - 147	156	151 - 161	172	167 - 177
K ⁺	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.4	4.9 - 5.9	6.8	6.3 - 7.3	8.3	7.7 - 8.9
iCa ⁺⁺	mmol/L	2.15	2.02 - 2.28	1.79	1.68 - 1.90	1.37	1.29 - 1.45	0.38	0.30 - 0.46	0.90	0.84 - 0.96
	mEq/L	4.3	4.0 - 4.6	3.6	3.4 - 3.8	2.7	2.6 - 2.9	0.8	0.6 - 0.9	1.8	1.7 - 1.9
	mg/dL	8.6	8.1 - 9.1	7.2	6.7 - 7.6	5.5	5.2 - 5.8	1.5	1.2 - 1.8	3.6	3.4 - 3.9
Glucose/ Glu	mg/dL	607	538 - 676	478	424 - 532	281	241 - 321	170	146 - 194	24	15 - 33
	g/L	6.07	5.38 - 6.76	4.78	4.24 - 5.32	2.81	2.41 - 3.21	1.70	1.46 - 1.94	0.24	0.15 - 0.33
	mmol/L	33.7	29.9 - 37.5	26.5	23.5 - 29.5	15.6	13.4 - 17.8	9.4	8.1 - 10.8	1.3	0.8 - 1.8
Creatinine/ Crea	μmol/L	27	0 - 55	414	336 - 492	702	572 - 832	1134	944 - 1324	1759	1529 - 1989
	mg/dL	0.3	0.0 - 0.6	4.7	3.8 - 5.6	7.9	6.5 - 9.4	12.8	10.7 - 15.0	19.9	17.3 - 22.5
Lactate/ Lac	mmol/L	15.93	13.93 - 17.93	11.58	10.08 - 13.08	7.02	6.02 - 8.02	3.71	2.96 - 4.46	0.52	0.0 - 1.02
	mg/dL	143.5	125.5 - 161.5	104.4	90.9 - 117.9	63.2	54.2 - 72.2	33.4	26.7 - 40.2	4.7	0.2 - 9.2
	g/L	1.435	1.255 - 1.615	1.044	0.909 - 1.179	0.632	0.542 - 0.722	0.334	0.267 - 0.402	0.047	0.0 - 0.092
Hct ¹	%PCV	16	13 - 19	28	25 - 31	41	38 - 44	53	49 - 57	63	59 - 67
Hct ²	%PCV	17	14 - 20	29	26 - 32	42	39 - 45	56	51 - 60	66	62 - 70

¹ K₃EDTA

² K₂EDTA

CueSee® VeriSTAT - Linearity Verification Material

Expected values for Abbott i-STAT®

CLEW: A37/C37/H37/J37



2020-12

EC8+, 6+, EC4+, E3+ & G

LOT F, H, J or K

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
		LOT 22001901		LOT 22002851		LOT 22003902		LOT 22004851		LOT 22005902	
LOT 220-B904	Unit	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R
pH	1	6.539	6.489 - 6.589	6.919	6.869 - 6.969	7.190	7.140 - 7.240	7.607	7.557 - 7.657	7.832	7.782 - 7.882
pCO ₂	mmHg	120.7	111.2 - 130.2	99.2	90.7 - 107.7	70.4	62.4 - 78.4	42.2	34.7 - 49.7	24.4	17.4 - 31.4
	kPa	16.05	14.79 - 17.31	13.19	12.06 - 14.32	9.36	8.30 - 10.43	5.62	4.62 - 6.62	3.25	2.32 - 4.18
Na ⁺	mmol/L, mEq/L	107	103 - 111	122	118 - 126	143	139 - 147	156	151 - 161	173	168 - 178
K ⁺	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.4	4.9 - 5.9	6.8	6.3 - 7.3	8.2	7.6 - 8.8
Cl ⁻	mmol/L, mEq/L	108	102 - 114	73	68 - 78	126	118 - 134	84	79 - 89	101	95 - 107
Glucose/ Glu	mg/dL	615	546 - 684	488	434 - 542	303	263 - 343	187	163 - 211	26	17 - 35
	g/L	6.15	5.46 - 6.84	4.88	4.34 - 5.42	3.03	2.63 - 3.43	1.87	1.63 - 2.11	0.26	0.17 - 0.35
	mmol/L	34.1	30.3 - 37.9	27.1	24.1 - 30.1	16.8	14.6 - 19.1	10.4	9.0 - 11.7	1.4	0.9 - 1.9
BUN	mg/dL	95	80 - 110	76	64 - 88	60	51 - 69	33	27 - 39	7	4 - 10
Urea	mmol/L	33.8	28.4 - 39.1	27.2	22.9 - 31.4	21.3	18.1 - 24.5	11.8	9.6 - 13.9	2.5	1.4 - 3.6
	mg/dL	203	171 - 235	163	137 - 189	128	109 - 147	71	58 - 84	15	9 - 21
	g/L	2.03	1.71 - 2.35	1.63	1.37 - 1.89	1.28	1.09 - 1.47	0.71	0.58 - 0.84	0.15	0.09 - 0.21
Hct ¹	%PCV	15	12 - 18	28	25 - 31	40	37 - 43	53	49 - 57	63	59 - 67
Hct ²	%PCV	16	13 - 19	29	26 - 32	42	39 - 45	55	51 - 60	66	62 - 70

¹ K₃EDTA

² K₂EDTA

CueSee® VeriSTAT - Linearity Verification Material

Expected values for Abbott i-STAT®

CLEW: A37/C37/H37/J37



2020-12

CHEM8+

LOT H

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
		LOT 22001901		LOT 22002851		LOT 22003902		LOT 22004851		LOT 22005902	
LOT 220-B904	Unit	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R	Mean \bar{X}	Range R
Na+	mmol/L, mEq/L	107	103 - 111	122	118 - 126	142	138 - 146	154	149 - 159	171	166 - 176
K+	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.4	4.9 - 5.9	6.8	6.3 - 7.3	8.3	7.7 - 8.9
Cl-	mmol/L, mEq/L	107	101 - 113	74	69 - 79	127	119 - 135	86	81 - 91	100	94 - 106
iCa++	mmol/L	2.16	2.03 - 2.29	1.80	1.69 - 1.91	1.38	1.30 - 1.46	0.39	0.31 - 0.47	0.93	0.87 - 0.99
	mEq/L	4.3	4.1 - 4.6	3.6	3.4 - 3.8	2.8	2.6 - 2.9	0.8	0.6 - 0.9	1.9	1.7 - 2.0
	mg/dL	8.7	8.1 - 9.2	7.2	6.8 - 7.7	5.5	5.2 - 5.8	1.6	1.3 - 1.9	3.7	3.5 - 4.0
Glucose/ Glu	mg/dL	627	558 - 696	487	433 - 541	276	236 - 316	165	141 - 189	22	13 - 31
	g/L	6.27	5.58 - 6.96	4.87	4.33 - 5.41	2.76	2.36 - 3.16	1.65	1.41 - 1.89	0.22	0.13 - 0.31
	mmol/L	34.8	31.0 - 38.6	27.0	24.0 - 30.0	15.3	13.1 - 17.6	9.2	7.8 - 10.5	1.2	0.7 - 1.7
tCO2	mmol/L, mEq/L	15	9 - 21	22	13 - 31	28	21 - 35	40	33 - 47	39	29 - 49
Creatinine/ Crea	µmol/L	33	5 - 61	427	349 - 505	704	574 - 834	1142	952 - 1332	1720	1490 - 1950
	mg/dL	0.4	0.1 - 0.7	4.8	4.0 - 5.7	8.0	6.5 - 9.4	12.9	10.8 - 15.1	19.5	16.9 - 22.1
BUN	mg/dL	84	69 - 99	71	59 - 83	57	48 - 66	34	28 - 40	7	4 - 10
Urea	mmol/L	29.9	24.5 - 35.2	25.5	21.2 - 29.8	20.4	17.2 - 23.6	12.2	10.0 - 14.3	2.5	1.5 - 3.6
	mg/dL	179	147 - 211	153	127 - 179	122	103 - 142	73	60 - 86	15	9 - 22
	g/L	1.79	1.47 - 2.11	1.53	1.27 - 1.79	1.22	1.03 - 1.42	0.73	0.60 - 0.86	0.15	0.09 - 0.22
Hct ¹	%PCV	15	12 - 18	26	23 - 29	38	35 - 41	51	47 - 55	61	57 - 65
Hct ²	%PCV	16	13 - 19	27	24 - 30	40	37 - 43	53	49 - 57	64	60 - 68

¹ K₃EDTA

² K₂EDTA