

CueSee® VeriSTAT - Linearity Verification Materials

Expected values for Abbott i-STAT®

🕒 2016-02

CLEW: A30/C30/H30/J30

All cartridge types, all cartridge lot numbers

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
LOT 220-B416		LOT 22001408		LOT 22002408		LOT 22003408		LOT 22004408		LOT 22005409	
	Unit	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R	Mean X̄	Range R
pH	1	6.586	6.522 - 6.650	6.957	6.883 - 7.032	7.215	7.129 - 7.301	7.636	7.542 - 7.729	7.899	7.811 - 7.986
pCO ₂	mmHg	105.8	91.8 - 119.7	87.6	74.1 - 101.1	63.8	52.2 - 75.5	39.0	28.5 - 49.6	22.0	12.6 - 31.3
	kPa	14.07	12.21 - 15.92	11.65	9.85 - 13.44	8.49	6.94 - 10.05	5.19	3.79 - 6.59	2.92	1.68 - 4.16
pO ₂	mmHg	72	55 - 89	150	125 - 175	218	183 - 253	311	266 - 356	393	343 - 443
	kPa	9.5	7.3 - 11.8	19.9	16.6 - 23.3	29.0	24.3 - 33.6	41.3	35.4 - 47.3	52.3	45.6 - 58.9
Na ⁺	mmol/L, mEq/L	106	101 - 111	121	117 - 125	142	138 - 146	155	149 - 160	170	165 - 176
K ⁺	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.4	4.9 - 6.0	6.8	6.3 - 7.3	8.3	7.6 - 8.9
iCa ⁺⁺	mmol/L	2.21	2.07 - 2.34	1.86	1.73 - 1.99	1.41	1.31 - 1.51	0.39	0.30 - 0.47	0.93	0.86 - 1.01
	mEq/L	4.4	4.1 - 4.7	3.7	3.5 - 4.0	2.8	2.6 - 3.0	0.8	0.6 - 0.9	1.9	1.7 - 2.0
	mg/dL	8.8	8.3 - 9.4	7.5	6.9 - 8.0	5.6	5.2 - 6.0	1.5	1.2 - 1.9	3.7	3.4 - 4.0
Cl ⁻	mmol/L, mEq/L	108	102 - 114	75	69 - 80	126	118 - 134	85	80 - 91	100	93 - 106
tCO ₂	mmol/L, mEq/L	13	7 - 19	21	12 - 30	25	18 - 32	38	31 - 45	39	29 - 49
Glucose/ Glu	mg/dL	620	547 - 693	491	434 - 547	289	239 - 339	176	142 - 209	24	13 - 35
	g/L	6.20	5.47 - 6.93	4.91	4.34 - 5.47	2.89	2.39 - 3.39	1.76	1.42 - 2.09	0.24	0.13 - 0.35
	mmol/L	34.4	30.4 - 38.5	27.2	24.1 - 30.3	16.0	13.3 - 18.8	9.8	7.9 - 11.6	1.3	0.7 - 1.9
Lactate/ Lac	mmol/L	15.51	13.51 - 17.51	11.87	10.37 - 13.37	7.11	6.11 - 8.11	3.88	3.13 - 4.63	0.55	0.05 - 1.05
	mg/dL	139.8	121.7 - 157.8	106.9	93.4 - 120.4	64.1	55.1 - 73.1	35.0	28.2 - 41.7	5.0	0.5 - 9.5
	g/L	1.398	1.217 - 1.578	1.069	0.934 - 1.204	0.641	0.551 - 0.731	0.350	0.282 - 0.417	0.050	0.005 - 0.095
BUN	mg/dL	102	83 - 120	82	70 - 95	62	53 - 72	34	27 - 41	6	3 - 10
Urea	mmol/L	36.3	29.7 - 42.9	29.3	24.8 - 33.8	22.3	18.8 - 25.7	12.1	9.5 - 14.7	2.3	1.2 - 3.4
	mg/dL	218	178 - 257	176	149 - 203	134	113 - 154	72	57 - 88	14	7 - 21
	g/L	2.18	1.78 - 2.57	1.76	1.49 - 2.03	1.34	1.13 - 1.54	0.72	0.57 - 0.88	0.14	0.07 - 0.21
Creatinine/ Crea	μmol/L	31	0 - 63	432	351 - 513	705	570 - 839	1153	939 - 1366	1723	1479 - 1967
	mg/dL	0.4	0.0 - 0.7	4.9	4.0 - 5.8	8.0	6.5 - 9.5	13.0	10.6 - 15.5	19.5	16.7 - 22.3
Hct	%PCV	15	12 - 19	27	24 - 31	39	35 - 43	52	47 - 57	62	56 - 67

Level 1



22001408

Level 2



22002408

Level 3



22003408

Level 4



22004408

Level 5



22005409

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 220-B416		LOT 22001408		LOT 22002408		LOT 22003408		LOT 22004408		LOT 22005409	
	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	6.600	6.550 - 6.650	6.982	6.932 - 7.032	7.251	7.201 - 7.301	7.679	7.629 - 7.729	7.936	7.886 - 7.986
pCO ₂	mmHg	101.3	91.8 - 110.8	82.6	74.1 - 91.1	60.2	52.2 - 68.2	36.0	28.5 - 43.5	19.6	12.6 - 26.6
	kPa	13.48	12.21 - 14.74	10.98	9.85 - 12.11	8.00	6.94 - 9.06	4.78	3.79 - 5.78	2.61	1.68 - 3.54
pO ₂	mmHg	72	55 - 89	150	125 - 175	218	183 - 253	311	266 - 356	393	343 - 443
	kPa	9.5	7.3 - 11.8	19.9	16.6 - 23.3	29.0	24.3 - 33.6	41.3	35.4 - 47.3	52.3	45.6 - 58.9
Na ⁺	mmol/L, mEq/L	107	103 - 111	121	117 - 125	142	138 - 146	154	149 - 159	170	165 - 175
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
iCa ⁺⁺	mmol/L	2.20	2.07 - 2.33	1.84	1.73 - 1.95	1.39	1.31 - 1.47	0.38	0.30 - 0.46	0.92	0.86 - 0.98
	mEq/L	4.4	4.1 - 4.7	3.7	3.5 - 3.9	2.8	2.6 - 2.9	0.8	0.6 - 0.9	1.8	1.7 - 2.0
	mg/dL	8.8	8.3 - 9.3	7.4	6.9 - 7.8	5.6	5.2 - 5.9	1.5	1.2 - 1.8	3.7	3.4 - 3.9
Glucose/ Glu	mg/dL	622	553 - 691	488	434 - 542	279	239 - 319	169	145 - 193	24	15 - 33
	g/L	6.22	5.53 - 6.91	4.88	4.34 - 5.42	2.79	2.39 - 3.19	1.69	1.45 - 1.93	0.24	0.15 - 0.33
	mmol/L	34.5	30.7 - 38.3	27.1	24.1 - 30.1	15.5	13.3 - 17.7	9.4	8.0 - 10.7	1.3	0.8 - 1.8
Creatinine/ Crea	μmol/L	24	0 - 52	435	357 - 513	709	579 - 839	1176	986 - 1366	1737	1507 - 1967
	mg/dL	0.3	0.0 - 0.6	4.9	4.0 - 5.8	8.0	6.5 - 9.5	13.3	11.2 - 15.5	19.7	17.0 - 22.3
Lactate/ Lac	mmol/L	15.51	13.51 - 17.51	11.87	10.37 - 13.37	7.11	6.11 - 8.11	3.88	3.13 - 4.63	0.55	0.05 - 1.05
	mg/dL	139.8	121.7 - 157.8	106.9	93.4 - 120.4	64.1	55.1 - 73.1	35.0	28.2 - 41.7	5.0	0.5 - 9.5
	g/L	1.398	1.217 - 1.578	1.069	0.934 - 1.204	0.641	0.551 - 0.731	0.350	0.282 - 0.417	0.050	0.005 - 0.095
Hct	%PCV	16	13 - 19	28	25 - 31	40	37 - 43	53	49 - 57	63	59 - 67

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 2016-02

CLEW: A30/C30/H30/J30

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

LOT F, H, J or K

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
LOT 220-B416		LOT 22001408		LOT 22002408		LOT 22003408		LOT 22004408		LOT 22005409	
	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	6.572	6.522 - 6.622	6.933	6.883 - 6.983	7.179	7.129 - 7.229	7.592	7.542 - 7.642	7.861	7.811 - 7.911
pCO2	mmHg	110.2	100.7 - 119.7	92.6	84.1 - 101.1	67.5	59.5 - 75.5	42.1	34.6 - 49.6	24.3	17.3 - 31.3
	kPa	14.66	13.40 - 15.92	12.31	11.18 - 13.44	8.98	7.92 - 10.05	5.59	4.60 - 6.59	3.23	2.30 - 4.16
Na+	mmol/L, mEq/L	106	102 - 110	121	117 - 125	142	138 - 146	155	150 - 160	171	166 - 176
K+	mmol/L, mEq/L	2.5	2.1 - 2.9	3.9	3.5 - 4.3	5.5	5.0 - 6.0	6.8	6.3 - 7.3	8.3	7.7 - 8.9
Cl-	mmol/L, mEq/L	108	102 - 114	75	70 - 80	126	118 - 134	85	80 - 90	100	94 - 106
Glucose/ Glu	mg/dL	616	547 - 685	491	437 - 545	299	259 - 339	185	161 - 209	26	17 - 35
	g/L	6.16	5.47 - 6.85	4.91	4.37 - 5.45	2.99	2.59 - 3.39	1.85	1.61 - 2.09	0.26	0.17 - 0.35
	mmol/L	34.2	30.4 - 38.0	27.3	24.3 - 30.3	16.6	14.4 - 18.8	10.3	8.9 - 11.6	1.4	0.9 - 1.9
BUN	mg/dL	105	90 - 120	83	71 - 95	62	53 - 71	33	27 - 39	7	4 - 10
Urea	mmol/L	37.5	32.2 - 42.9	29.5	25.2 - 33.8	22.1	18.8 - 25.3	11.6	9.5 - 13.8	2.4	1.3 - 3.4
	mg/dL	225	193 - 257	177	151 - 203	132	113 - 152	70	57 - 83	14	8 - 21
	g/L	2.25	1.93 - 2.57	1.77	1.51 - 2.03	1.32	1.13 - 1.52	0.70	0.57 - 0.83	0.14	0.08 - 0.21
Hct	%PCV	16	13 - 19	28	25 - 31	40	37 - 43	53	49 - 57	62	58 - 66

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 2016-02

CLEW: A30/C30/H30/J30

CHEM8+

LOT H

Kit		Level 1		Level 2		Level 3		Level 4		Level 5	
		LOT 22001408		LOT 22002408		LOT 22003408		LOT 22004408		LOT 22005409	
LOT 220-B416	Unit	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
		\bar{X}	R	\bar{X}	R	\bar{X}	R	\bar{X}	R	\bar{X}	R
Na+	mmol/L, mEq/L	105	101 - 109	121	117 - 125	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	5.5	5.0 - 6.0	6.8	6.3 - 7.3	8.3	7.7 - 8.9
Cl-	mmol/L, mEq/L	108	102 - 114	74	69 - 79	126	118 - 134	86	81 - 91	99	93 - 105
iCa++	mmol/L	2.21	2.08 - 2.34	1.88	1.77 - 1.99	1.43	1.35 - 1.51	0.39	0.31 - 0.47	0.95	0.89 - 1.01
	mEq/L	4.4	4.2 - 4.7	3.8	3.5 - 4.0	2.9	2.7 - 3.0	0.8	0.6 - 0.9	1.9	1.8 - 2.0
	mg/dL	8.9	8.3 - 9.4	7.5	7.1 - 8.0	5.7	5.4 - 6.0	1.6	1.2 - 1.9	3.8	3.6 - 4.0
Glucose/ Glu	mg/dL	624	555 - 693	493	439 - 547	279	239 - 319	166	142 - 190	22	13 - 31
	g/L	6.24	5.55 - 6.93	4.93	4.39 - 5.47	2.79	2.39 - 3.19	1.66	1.42 - 1.90	0.22	0.13 - 0.31
	mmol/L	34.6	30.8 - 38.5	27.3	24.3 - 30.3	15.5	13.3 - 17.7	9.2	7.9 - 10.6	1.2	0.7 - 1.7
tCO2	mmol/L, mEq/L	13	7 - 19	21	12 - 30	25	18 - 32	38	31 - 45	39	29 - 49
Creatinine/ Crea	μmol/L	35	7 - 63	429	351 - 507	700	570 - 830	1129	939 - 1319	1709	1479 - 1939
	mg/dL	0.4	0.1 - 0.7	4.8	4.0 - 5.7	7.9	6.5 - 9.4	12.8	10.6 - 14.9	19.3	16.7 - 21.9
BUN	mg/dL	98	83 - 113	82	70 - 94	63	54 - 72	35	29 - 41	6	3 - 9
Urea	mmol/L	35.1	29.7 - 40.4	29.1	24.8 - 33.4	22.5	19.3 - 25.7	12.5	10.4 - 14.7	2.2	1.2 - 3.3
	mg/dL	210	178 - 242	175	149 - 200	135	116 - 154	75	62 - 88	13	7 - 20
	g/L	2.10	1.78 - 2.42	1.75	1.49 - 2.00	1.35	1.16 - 1.54	0.75	0.62 - 0.88	0.13	0.07 - 0.20
Hct	%PCV	15	12 - 18	27	24 - 30	38	35 - 41	51	47 - 55	60	56 - 64

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