



# i-STAT® 1

## Results To Go

The i-STAT 1 delivers acid-base, blood gas, electrolyte, chemistry, hematology, and specialty results in minutes from 2-3 drops of whole blood. A completely portable and handheld analyzer, the i-STAT 1 provides important information to monitor acute and chronic disease patients, evaluate pre-anesthetic patients, and provide specialty testing wherever your patients need to go.

**EC8+**

Hct	Hb*	BUN	Glu	Cl	Na	K	pH
pCO <sub>2</sub>	HCO <sub>3</sub> *†	tCO <sub>2</sub> **	AnGap*	BE*			

**CHEM8+**

Hct	Hb*	BUN	Crea	iCa	Glu	Cl
Na	K	tCO <sub>2</sub> **	AnGap*			

**CG8+**

Hct	Hb*	iCa	Glu	Na	K	pH	pCO <sub>2</sub>
HCO <sub>3</sub> *†	tCO <sub>2</sub> **	BE*	pO <sub>2</sub>	sO <sub>2</sub> *			

**CG4+**

pH	pCO <sub>2</sub>	HCO <sub>3</sub> *†	tCO <sub>2</sub> **	BE*	pO <sub>2</sub>	sO <sub>2</sub> *
Lac						

**6+**

Hct	Hb*	BUN	Glu	Cl	Na	K
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**E3+**

Hct	Hb*	Cl†	Na	K
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**G**

Glu
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**Crea**

Crea
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**ACT Celite**

Celite® Activated Clotting Time
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**cTnl**

Cardiac Troponin I
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## Key Features and Benefits



**Acid-base, Blood Gas, Electrolytes, Chemistry, And Hematology**  
Multiple functionality and testing menus in a single device.



**Portable and lightweight**  
Diagnose and treat at the point of care, whether out in the field, barn side, or in the exam room.



**Results in approximately 2-3 minutes**  
Obtain results, diagnose, discuss with clients, and begin treatment immediately at the point of care.



**Built-in calibration**  
Ensures reliable results and removes the need for costly and time consuming external controls.



**On-screen assistance**  
Ensures ease-of-use, reduces user errors and alleviates frustration.

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888 963 8471

\* Calculated value  
\*\* Calculated value on CG4+, CG8+, and EC8+ Cartridges. Measured value on CHEM8+ Cartridge.  
† Chloride on the E3+ cartridge is only available on the VETSCAN i-STAT 1 and i-STAT Alinity v analyzers.  
†† cTnl takes 10 minutes for results  
‡ Clinical Laboratory Improvement Amendments



# i-STAT® 1 Test Reference Ranges

	Units	Canine	Feline	Equine	
Hematology	Hematocrit (Hct)	% PCV	39 - 58	25 - 47	26 - 44
	Hemoglobin (Hb)*	g/dL	12 - 19	8 - 16	10 - 15
Chemistry	Blood Urea Nitrogen (BUN)	mg/dL	7 - 26	18 - 39	10 - 22
	Creatinine (Crea)	mg/dL	0.4 - 1.3	1.0 - 2.2 <sup>†</sup>	0.8 - 1.9
	Ionized Calcium (iCa)	mmol/L	1.19 - 1.40	1.20 - 1.32 <sup>†</sup>	1.35 - 1.68
	Glucose (Glu)	mg/dL	74 - 123	56 - 163	71 - 117
	Chloride (Cl)**	mmol/L	110 - 120	115 - 125	98 - 106
Electrolytes	Sodium (Na)	mmol/L	139 - 150	147 - 155	132 - 140
	Potassium (K)	mmol/L	3.4 - 4.7	3.0 - 4.6	3.1 - 4.4
	pH		7.30 - 7.48	7.20 - 7.52	7.39 - 7.52
Acid Base	Partial Pressure of Carbon Dioxide (pCO <sub>2</sub> )	mmHg	27.8 - 47.2	22.2 - 50.4	35.5 - 51.7
	Bicarbonate (HCO <sub>3</sub> )*	mmol/L	18.3 - 26.4	16.9 - 24.0	27.4 - 33.8
	Total Carbon Dioxide (tCO <sub>2</sub> ) <sup>††</sup>	mmol/L	19 - 28	17 - 26	25 - 32
	Anion Gap (AnGap)*	mmol/L	7 - 17	9 - 20	8 - 13
	Base Excess (BE) <sup>†††</sup>	mmol/L	-5 - 0	(-5) - (+2)	(-5) - (+5)
Blood Gas	Partial Pressure of Oxygen (pO <sub>2</sub> ) <sup>††</sup>	mmHg	85 - 100	90 - 110	90 - 108
	Oxygen Saturation (sO <sub>2</sub> ) <sup>†††</sup>	%	>90	>90	>90
Specialty	Lactate (Lac)	mmol/L	0.6 - 2.9 <sup>†</sup>	0.5 - 2.7 <sup>†</sup>	0.2 - 1.2
	ACT Celite <sup>††</sup>	seconds	90 - 130	100 - 160	120 - 220
	Cardiac Troponin I (cTnI) <sup>††</sup>	ng/ml	<0.05	n/a	n/a

\* Calculated values

\*\* Chloride on the E3+ cartridge is only available for use on the VETSCAN i-STAT 1 and i-STAT Alinity v analyzers.

† Calculated value on CG4+, CG8+, and EC8+ Cartridges. Measured value on CHEM8+ Cartridge.

†† Reference range not specific to the i-STAT 1 analyzer

- Reference ranges are provided only as a guideline. Test results should be interpreted in conjunction with the patient's clinical signs.
- n/a designates not validated for species.

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Data on file, Study Report No. TI-04620.

Data on file, Study Report No. TI-04621.

Data on file, Study Report No. TI-04622.

Data on file, Study Report No. TI-04623.

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Highlighted cells reflect ranges for arterial samples.

