

i-STAT®

Portable Clinical Analyzer

REFERENCE RANGES AND REPORTABLE RANGES

Parameters Chemistry / Haematology	Recommended Reference Ranges		Reportable Ranges *
	Mouse	Rat	
Glucose (mmol/L)	4.91 – 9.69	5.34 – 8.68	1.1 – 38.5
Urea (mmol/L)	4.85 – 12.42	3.03 – 8.10	1.07 – 49.98
Sodium (mmol/L)	136.0 – 148.2	126.3 – 142.1	100 – 180
Potassium (mmol/L)	4.9 – 9.0	4.4 – 7.7	2.0 – 9.0
Chloride (mmol/L)	109.6 – 127.7	99.8 – 116.0	65 – 140
Hematocrit (%)	36.8 – 52.7	29.5 – 58.3	10 – 75
Haemoglobin (g/dl)	12.8 – 17.7	10.0 – 19.8	3.4 – 25.5
Mouse reference ranges established using 44 BALB/cAnNCrIBR, 49 C3H/HeNCrLBR; and 38 29/SvPalscoCrLBR mice. Rat reference ranges established using 50 Sprague-Dawley and 26 National Institute of Health rats.			

* Reference ranges cited in Journal of the American Association for Laboratory Animal Science, Vol 46, No 3 May 2007. The reference range provided for potassium was obtained using whole blood. Whole blood potassium measurements are typically lower than serum levels due to potassium release by platelets during the clotting process. Serum potassium values average approximately 0.5 mmol/L higher. Hematocrit values are slightly lower on the i-STAT1 Analyser as compared to reference procedures due to differences in test method. Reportable ranges are the ranges over which the analyser can accurately measure. Patient values below or above the reportable ranges are displayed as “less than” the lower end of the range or “greater than” the upper end of the range, respectively.

For assistance, call Technical Support at +44 (0)1204 669033, option 1.

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