

**DLAM / Pathology & Laboratory Medicine Services**

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**SERUM CHEMISTRY REFERENCE RANGE - RAT\***

Test names	Unit	Strain		
		SD	F344	Wistar
<b>ALP</b> (Alkaline phosphatase)	U/L	21-367	40-275	95-611
<b>ALT</b> (Alanine aminotrasferase, SGPT)	U/L	6-114	25-89	13-56
<b>AST</b> (Aspartate aminotrasferase,SGOT)	U/L	37-205	60-88	34-109
<b>GGT</b> (Gamma-glutamyl transpeptidase)	U/L	0.5-5.3	—	—
<b>CK</b> (Creatine kinase)	U/L	1-563	140-600	—
<b>BUN</b> (Blood urea nitrogen)	mg/dl	13-29	12.0-23.0	11–25
<b>CREAT</b> (Creatinine)	mg/dl	0.4-1.5	0.2-0.9	0.2-0.7
<b>GLU</b> (Glucose)	mg/dl	44-131	92-160	148-208
<b>CHOL</b> (Cholesterol)	mg/dl	40-281	57-163	41-126
<b>TRIG</b> (Triglycerides)	mg/dl	30-409	40-325	—
<b>TBILI</b> (Bilirubin, total)	mg/dl	0.06-0.8	0.1-0.4	0.2-0.7
<b>CA</b> (Calcium)	mg/dl	9.2-13.0	9.9-11.5	9.5-11.3
<b>PHOS</b> (Inorganic phosphorus)	mg/dl	4.0-10.2	4.7-6.5	4.3-10.1
<b>NA</b> (Sodium)	mmol/L	139-155	140-154	138-155
<b>K</b> (Potassium)	mmol/L	3.6-7.7	3.7-5.4	4.6-6.0
<b>CL</b> (Chloride)	mmol/L	94-116	97.7-111	100-110
<b>CO2_LC</b> (Bicarbonate, HCO <sub>3</sub> )	mEq/L	—	—	22.8-31.1
<b>ALB</b> (Albumin)	g/dl	2.9-4.8	3.5-4.8	3.1-4.6
<b>TPROT</b> (Total protein)	g/dl	5.7-8.5	6.1-7.6	6.3-7.3

\*Modified from Loeb *et al* (1999)

(Loeb, WF and Quimby, FW. 1999. *The Clinical Chemistry of Laboratory Animals*, 2nd ed. Philadelphia: Taylor & Francis USA.)