

# REFERENCE RANGES

## Birds

### CLINICAL CHEMISTRY

	Unit	Parakeets	Amazon Parrots	Parrot
<b>Enzymes 37°C</b>				
ALT (GPT)	U/l	5 - 11	5 - 11	5 - 12
α-Amylase	U/l	205 - 490	205 - 510	210 - 530
AP	U/l	20 - 250	15 - 150	20 - 160
AST (GOT)	U/l	160 - 383	141 - 437	109 - 305
Cholinesterase	U/l	450 - 3200	780 - 6180	710 - 12450
CK	U/l	58 - 245	125 - 345	228 - 322
γ-GT	U/l	1 - 30	-	1 - 10
LDH	U/l	120 - 455	155 - 425	145 - 465
Lipase	U/l	30 - 280	35 - 225	35 - 350
<b>Substrates</b>				
Cholesterol	mmol/l	3.63 - 9.32	4.66 - 7.90	4.14 - 11.01
Total Protein	g/l	24 - 48	30 - 52	32 - 52
Glucose	mmol/l	13.82 - 20.15	12.27 - 16.76	11.43 - 15.26
Bile Acids	μmol/l	44 - 108	33 - 154	12 - 96
Creatinine	μmol/l	7.63 - 30.5	7.63 - 30.5	7.63 - 30.5
Uric acid	μmol/l	210 - 650	120 - 520	160 - 520
Urea	mmol/l	1.04 - 1.78	-	1.07 - 1.93
Triglycerides	mmol/l	0.51 - 2.26	0.55 - 2.15	0.51 - 1.64
<b>Electrolytes</b>				
Calcium	mmol/l	1.82 - 2.67	2.05 - 2.73	1.93 - 2.83
Potassium (K)	mmol/l	2.4 - 4.6	3.0 - 4.5	2.9 - 4.6
Sodium (Na)	μmol/l	130 - 153	125 - 155	157 - 165
Phosphate	mmol/l	1.03 - 1.55	1.0 - 1.78	1.03 - 1.74