

**REFERENCE RANGE FOR COMMON ANALYTES FOR
KOI (CYPRINUS CARPIO)**

Based on a population of 71 healthy, adult, known gender koi.

Courtesy of Brian Palmiero, DVM, University of Pennsylvania Veterinary Hospital, Philadelphia, PA

ANALYTE	UNITS	RANGE
ALBUMIN	g/dL	0.5 – 2.3
ALP	IU/L	4 – 55
ALT	IU/L	9 – 98
AST	IU/L	4 – 217
BILE ACIDS	μmol/L	0 – 3
BUN	mg/dL	0 – 5
CALCIUM	mg/dL	6.1 – 17.7
CHOLESTEROL	mg/dL	85 – 229
CREATINE KINASE	IU/L	1176 – 9716
GGT	IU/L	0 – 4
GLOBULIN	g/dL	0.2 – 1.4
GLUCOSE	mg/dL	3 – 109
POTASSIUM	mmol/L	0 – 2.9
SODIUM	mmol/L	110 – 143
PHOSPHOROUS	mg/dL	3.0 – 10.1
TOTAL BILIRUBIN	mg/dL	0 – 4.4
TOTAL PROTEIN	g/dL	1.9 – 4.4
URIC ACID	mg/dL	0 – 0.3