

**IDEXX VetConnect 1-888-433-9987**

**Client:** WAGNER  
**Patient:** COOPER  
**Species:** CANINE  
**Breed:** AUSTRALIAN\_KELP  
**Gender:** MALE NEUTERED  
**Age:** 12Y

**Date:** 01/13/2015  
**Requisition #:** 16365245-C  
**Accession #:** K1866154  
**Ordered by:** WAGNER,CORNELIA

**HAWTHORNE VETERINARY CLINIC**  
 1431 SE 23RD STREET  
 PORTLAND, OR 97214  
 503-233-2332

Account #19167

**BILE ACIDS**

Test	Result	Reference Range	Low	Normal	High
BILE ACIDS	0.9 <sup>1</sup>	0.0 - 6.9 umol/L			

**Comments:**

1. RESULT VERIFIED BY REPEAT ANALYSIS

In both dogs and cats resting bile acids >7 umol/L or post prandial bile acid concentrations >15 umol/L are suggestive of liver malfunction but does not indicate the nature of the abnormality or whether the problem is reversible or permanent. A liver biopsy may be warranted to further identify the underlying hepatopathy. Increased bile acids can be seen in diseases affecting hepatic circulation (i.e. liver shunts), cholestasis, or diseases associated with hepatocellular damage. Dehydration, hypovolemia, and chronic passive congestion have only a minor effect on bile acid levels. A normal bile acid level does not rule out a hepatopathy.

**RETICULOCYTE PANEL**

Test	Result	Reference Range	Low	Normal	High
% RETICULOCYTE	0.5	%			
RETICULOCYTE	31	10 - 110 K/uL			

**TOTAL HEALTH : CHEM 27**

Test	Result	Reference Range	Low	Normal	High
ALP	40	5 - 160 U/L			
ALT	71	18 - 121 U/L			
AST	32	16 - 55 U/L			
<b>CREATINE KINASE</b>	<b>327</b>	<b>10 - 200 U/L</b>			<b>HIGH</b>
GGT	4	0 - 13 U/L			
AMYLASE	640	337 - 1469 U/L			
LIPASE	617	138 - 755 U/L			
ALBUMIN	3.2	2.7 - 3.9 g/dL			
TOTAL PROTEIN	6.8	5.5 - 7.5 g/dL			
GLOBULIN	3.6	2.4 - 4.0 g/dL			
TOTAL BILIRUBIN	0.1	0.0 - 0.3 mg/dL			
BILIRUBIN - CONJUGATED	0.1	0.0 - 0.1 mg/dL			
BUN	17	9 - 31 mg/dL			
CREATININE	1.3	0.5 - 1.5 mg/dL			
CHOLESTEROL	241	131 - 345 mg/dL			
GLUCOSE	95	63 - 114 mg/dL			
CALCIUM	9.9	8.8 - 11.2 mg/dL			

PHOSPHORUS	3.5	2.5 - 6.1 mg/dL	
TCO2 (BICARBONATE)	20	13 - 27 mmol/L	
CHLORIDE	116	108 - 119 mmol/L	
POTASSIUM	4.6	4.0 - 5.4 mmol/L	
SODIUM	148	142 - 152 mmol/L	
ALB/GLOB RATIO	0.9	0.7 - 1.5	
BUN/CREATININE RATIO	13.1		
BILIRUBIN - UNCONJUGATED	0.0	0.0 - 0.2 mg/dL	
NA/K RATIO	32	28 - 37	
HEMOLYSIS INDEX	N <sup>1</sup>		
LIPEMIA INDEX	N <sup>2</sup>		
ANION GAP	17	11 - 26 mmol/L	

**Comments:**

- 1. Index of N,+,++ exhibits no significant effect on chemistry values.
- 2. Index of N,+,++ exhibits no significant effect on chemistry values.

**TOTAL HEALTH : CBC STANDARD**

Test	Result	Reference Range	Low	Normal	High
WBC	7.5	4.9 - 17.6 K/uL			
RBC	6.23	5.39 - 8.70 M/uL			
HGB	14.9	13.4 - 20.7 g/dL			
HCT	40.8	38.3 - 56.5 %			
MCV	66	59 - 76 fL			
MCH	23.9	21.9 - 26.1 pg			
MCHC	36.5	32.6 - 39.2 g/dL			
% RETICULOCYTE	0.5	%			
RETICULOCYTE	31	10 - 110 K/uL			
% NEUTROPHIL	62.7	%			
% LYMPHOCYTE	27.3	%			
% MONOCYTE	2.9	%			
% EOSINOPHIL	7.1	%			
% BASOPHIL	0.0	%			
AUTO PLATELET	192	143 - 448 K/uL			
NEUTROPHIL	4703	2940 - 12670 /uL			
LYMPHOCYTE	2048	1060 - 4950 /uL			
MONOCYTE	218	130 - 1150 /uL			
EOSINOPHIL	533	70 - 1490 /uL			
BASOPHIL	0	0 - 100 /uL			