

1-888-433-9987  
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CHEM 21		Test	Result	Reference Range	Flag	Bar Graph
		ALP	293	- U/L		
		ALT	33	- U/L		
		AST	67	- U/L		
		ALBUMIN	4.2	- g/dL		
		TOTAL PROTEIN	6.8	- g/dL		
		GLOBULIN	2.6	- g/dL		
		TOTAL BILIRUBIN	0.1	- mg/dL		
		BILIRUBIN - CONJUGATED	0.1	- mg/dL		
		BUN	63	- mg/dL		
		CREATININE	0.6	- mg/dL		
		CHOLESTEROL	451	- mg/dL		
		GLUCOSE	84	- mg/dL		
		CALCIUM	10.9	- mg/dL		
		PHOSPHORUS	9.3	- mg/dL		
		CHLORIDE	115	- mmol/L		
		POTASSIUM	5.8	- mmol/L		
		SODIUM	153	- mmol/L		
		ALB/GLOB RATIO	1.6			
		BUN/CREATININE RATIO	105.0			
		BILIRUBIN - UNCONJUGATED	0.0	- mg/dL		
		NA/K RATIO	26			
		HEMOLYSIS INDEX	++			
		LIPEMIA INDEX	N			

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908-735-7213

Account: 26461

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Order recv'd: 03/31/2015  
Ordered by: ROSS  
Reported: 04/07/2015

VITAMIN D

Test	Result	Reference Range	Flag	Bar Graph
VITAMIN D	16	- nmol/L		

Our experience with this assay specifically in black bears is limited to two prior values of 13 and 132 nmol/L (unknown histories). In 11 prior samples from polar bears of unknown histories, nine results were between 105-226 nmol/L (likely normal) and two outliers of 521 and 616 nmol/L (possibly increased). This result is well below the main cluster of results for polar bears and would be viewed as low for dogs and cats. What signs are present?

Kent R. Refsal, DVM PhD  
Professor, Endocrinology

Referral test performed at Michigan State University.

IONIZED CALCIUM

Test	Result	Reference Range	Flag	Bar Graph
IONIZED CALCIUM	0.91	- mmol/L		