

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Pooch
Gender: Male
Sample ID: 2608100001

Owner Name: Michelle Saygo
Age: 7 Years
Sample Type: Serum

Species: Canine
Patient or Visit No.:
Time Tested: 10/08/2026 04:30:30

Test Panel: Comprehensive 24 Profile

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	89.8	↑ g/L	52-82				Whole Body
ALB	19.9	↓ g/L	22-44				Liver, Kidney
GLOB	69.9	↑ g/L	20-52				Whole Body
ALB/GLOB	0.3						Calculated value
TBIL	8.58	umol/L	2-15				Whole Body, Liver
GGT	4.5	U/L	0-7				Liver
AST	55	U/L	8.9-55				Liver
ALT	138	U/L	10-140				Liver
AST/ALT	0.40						Calculated value
ALP	270	↑ U/L	20-150				Liver
TBA	16.4	umol/L	0-20				Liver, Gallbladder
AMYL	1449	U/L	200-1800				Pancreas
CK	299	↑ U/L	20-200				Myocardium, Skeletal muscle
CREA	539	↑ umol/L	27-149				Kidney
BUN	≥35.7	↑ mmol/L	2.5-11.5				Kidney
BUN/CREA	---						Calculated value
GLU	4.15	mmol/L	3.89-7.95				Whole Body
CHOL	6.09	mmol/L	2.84-8.26				Whole Body
TRIG	0.84	mmol/L	0.1-0.9				
tCO2	23	mmol/L	12-27				Whole Body
Ca	1.86	↓ mmol/L	1.98-2.95				Whole Body
PHOS	5.97	↑ mmol/L	0.81-2.2				Kidney
Ca×P	138	mg/dL					
Mg	1.15	↑ mmol/L	0.6-1.09				

Clinical Significance

TP	Elevated levels: ① Dehydration; ② Increased albumin; ③ Increased immunoglobulin: myeloma, infectious diseases, etc.
ALB	Decreased levels: ① Malnutrition; ② Chronic wasting diseases; ③ Acute decrease seen in massive hemorrhage; ④ Blood dilution due to large volume infusion; ⑤ Chronic infections, tumors, trauma; ⑥ Hepatic dysfunction, decreased synthesis, ascites formation; ⑦ Renal diseases: glomerulonephritis, protein-losing nephropathy; ⑧ Severe malnutrition due to long-term starvation, diarrhea, malabsorption/digestion.
GLOB	Elevated levels: ① Tumors: lymphoma, multiple myeloma, etc.; ② Infectious diseases: bacterial, fungal, parasitic, protozoal, viral; ③ Immune-mediated/inflammatory: hepatitis, nephritis, purulent diseases, allergies, IMHA, lupus erythematosus, polyarthritis, etc.
AST	Elevated levels: ① Hepatic system diseases; ② Hemolysis, lipemia causing false elevation; ③ Equine paralytic myoglobinuria; ④ Cardiac injury: myocarditis, myocardial infarction; ⑤ Skeletal muscle diseases: canine degenerative myopathy, muscle injury; ⑥ Drug/toxin effects: barbiturates, corticosteroids, nonsteroidal anti-inflammatory drugs, ketoconazole, etc.
ALP	Elevated levels: ① Primary or metastatic tumors; ② Acute toxic liver injury; ③ Normal in young growing animals; ④ Bone marrow diseases causing increased osteoblast activity; ⑤ Hemolysis, lipemia, hyperbilirubinemia causing false elevation; ⑥ Drug/toxin effects: corticosteroids, barbiturates, aflatoxins, etc.; ⑦ Hepatobiliary diseases: cholangitis, chronic hepatitis, cirrhosis, hepatic lipidosis, etc.; ⑧ Endocrine diseases: hyperthyroidism, hyperadrenocorticism, diabetes.
CK	Elevated levels: ① Myocardial necrosis; ② Strenuous exercise; ③ Prolonged recumbency; ④ Skeletal muscle injury; ⑤ Neurological disease; ⑥ Hypothyroidism; ⑦ Hemolysis or intramuscular injection during blood draw.



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CREA	Elevated levels: ① Pre-renal conditions: insufficient renal perfusion, dehydration, extensive muscle damage; ② Renal diseases: severe renal diseases; ③ Post-renal: urethral obstruction; ④ Physiological increase: animals with rich muscle tissue.
BUN	Elevated levels: ① Pre-renal: dehydration, high-protein diet, gastrointestinal bleeding, shock, hypoalbuminemia; ② Renal: acute/chronic interstitial nephritis, acute renal tubular necrosis, chronic renal failure, chronic glomerulonephritis, amyloidosis, pyelonephritis, tumors; ③ Post-renal: urinary tract obstruction (stones, tumors, prostatic diseases, feline lower urinary tract disease), bladder rupture.
Ca	Decreased levels: ① Pancreatitis; ② Postpartum hypocalcemia; ③ Malabsorption in the small intestine; ④ Acute/chronic renal failure; ⑤ Hypothyroidism, thyroid cancer (increased calcitonin).
PHOS	Elevated levels: ① Vitamin D toxicity; ② Renal disease; ③ Fracture healing period; ④ Acromegaly; ⑤ Growing puppies and kittens; ⑥ Excess vitamin D intake; ⑦ Hypoparathyroidism; ⑧ Lymphoma, developmental disorders; ⑨ Pseudo-elevation due to hemolysis.
Mg	Elevated levels: ① Hemolysis; ② Renal failure; ③ Hepatic disease; ④ Diabetic coma; ⑤ Hypothyroidism; ⑥ Obstructive uropathy; ⑦ Adrenocortical insufficiency.

Veterinary Technician: not specified

Attending Veterinarian: Dr. Cassandra Jane R. Oyan

Date Reported: 10/08/2026

This report is solely for the received sample and serves as a diagnostic reference for veterinarians.



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