

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Pooch
Gender: Male
Sample ID: 2608270002

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

Species: Canine
Patient or Visit No.:
Time Tested: 27/08/2026 10:07:20

Test Panel: Comprehensive 24 Profile

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	85.3	↑ g/L	52-82				Whole Body
ALB	21.5	↓ g/L	22-44				Liver, Kidney
GLOB	63.8	↑ g/L	20-52				Whole Body
ALB/GLOB	0.3						Calculated value
TBIL	10.90	umol/L	2-15				Whole Body, Liver
GGT	5.0	U/L	0-7				Liver
AST	25	U/L	8.9-55				Liver
ALT	136	U/L	10-140				Liver
AST/ALT	0.18						Calculated value
ALP	174	↑ U/L	20-150				Liver
TBA	12.1	umol/L	0-20				Liver, Gallbladder
AMYL	1902	↑ U/L	200-1800				Pancreas
CK	77	U/L	20-200				Myocardium, Skeletal muscle
CREA	95	umol/L	27-149				Kidney
BUN	≥35.7	↑ mmol/L	2.5-11.5				Kidney
BUN/CREA	96						Calculated value
GLU	4.99	mmol/L	3.89-7.95				Whole Body
CHOL	5.34	mmol/L	2.84-8.26				Whole Body
TRIG	0.70	mmol/L	0.1-0.9				
tCO2	18	mmol/L	12-27				Whole Body
Ca	2.41	mmol/L	1.98-2.95				Whole Body
PHOS	2.12	mmol/L	0.81-2.2				Kidney
Ca×P	63	mg/dL					
Mg	0.55	↓ 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.
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.
AMYL	Elevated levels: ① Drug effects: corticosteroids; ② Gastrointestinal diseases: intestinal obstruction, inflammation; ③ Pancreatic diseases: pancreatitis, pancreatic necrosis, tumors, pancreatic duct obstruction; ④ Renal diseases: decreased clearance of amylase by the kidneys in animals with renal disease, leading to elevated serum amylase.
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.



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Decreased levels:① Intestinal absorption disorders; ② Hyperparathyroidism; ③ Fluid disorders, acute pancreatitis; ④ Prolonged fasting, chronic diarrhea with malabsorption; ⑤ Diabetic ketoacidosis, hyperaldosteronism; ⑥ Renal tubular injury/necrosis, post-obstructive diuresis, long-term diuretic therapy.

Veterinary Technician: not specified

Attending Veterinarian: Dr. Marian Wanagen

Date Reported: 27/08/2026

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



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