

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Mimi
Gender: Female
Sample ID: 2608190001

Owner Name:
Age: 8 Years
Sample Type: Serum

Species: Canine
Patient or Visit No.:
Time Tested: 19/08/2026 09:37:46

Test Panel: Comprehensive 24 Profile

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	88.8	↑ g/L	52-82				Whole Body
ALB	23.5	g/L	22-44				Liver, Kidney
GLOB	65.3	↑ g/L	20-52				Whole Body
ALB/GLOB	0.4						Calculated value
TBIL	7.18	umol/L	2-15				Whole Body, Liver
GGT	0.8	U/L	0-7				Liver
AST	69	↑ U/L	8.9-55				Liver
ALT	36	U/L	10-140				Liver
AST/ALT	1.92						Calculated value
ALP	188	↑ U/L	20-150				Liver
TBA	9.80	umol/L	0-20				Liver, Gallbladder
AMYL	1908	↑ U/L	200-1800				Pancreas
CK	653	↑ U/L	20-200				Myocardium, Skeletal muscle
CREA	833	↑ umol/L	27-149				Kidney
BUN	≥35.7	↑ mmol/L	2.5-11.5				Kidney
BUN/CREA	14						Calculated value
GLU	7.14	mmol/L	3.89-7.95				Whole Body
CHOL	9.22	↑ mmol/L	2.84-8.26				Whole Body
TRIG	1.40	↑ mmol/L	0.1-0.9				
tCO2	19	mmol/L	12-27				Whole Body
Ca	1.99	mmol/L	1.98-2.95				Whole Body
PHOS	≥7	↑ mmol/L	0.81-2.2				Kidney
Ca×P	197	mg/dL					
Mg	≥1.6	↑ mmol/L	0.6-1.09				

Clinical Significance

TP	Elevated levels: ① Dehydration; ② Increased albumin; ③ Increased immunoglobulin: myeloma, infectious diseases, etc.
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.
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.
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.
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.



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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.
CHOL	Elevated levels: ① Hypothyroidism; ② Diabetes mellitus; ③ Severe trauma; ④ Acute pancreatitis; ⑤ Lipodystrophy; ⑥ Protein-losing nephropathy; ⑦ Spontaneous hyperlipidemia; ⑧ Hepatic injury, biliary obstruction; ⑨ Hyperadrenocorticism; ⑩ Physiological increase after a fatty meal, high-fat diet.
TRIG	Elevated levels: ① Hypothyroidism; ② Diabetes mellitus; ③ Pancreatitis; ④ Cholestasis; ⑤ Fasting (obesity); ⑥ Spontaneous hyperlipidemia; ⑦ Hyperadrenocorticism; ⑧ Spontaneous hyperchylomicronemia; ⑨ Physiological increase after a fatty meal.
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 R. Oyan

Date Reported: 19/08/2026

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



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