

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Lilly
Gender: Female
Sample ID: 2607250001

Owner Name: Karanui Singh
Age: 2 Years
Sample Type: Serum

Species: Canine
Patient or Visit No.:
Time Tested: 25/07/2026 04:27:15

Test Panel: Comprehensive 24 Profile

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	83.3	↑ g/L	52-82				Whole Body
ALB	26.7	g/L	22-44				Liver, Kidney
GLOB	56.6	↑ g/L	20-52				Whole Body
ALB/GLOB	0.5						Calculated value
TBIL	23.97	↑ umol/L	2-15				Whole Body, Liver
GGT	1.7	U/L	0-7				Liver
AST	96	↑ U/L	8.9-55				Liver
ALT	79	U/L	10-140				Liver
AST/ALT	1.22						Calculated value
ALP	69	U/L	20-150				Liver
TBA	3.33	umol/L	0-20				Liver, Gallbladder
AMYL	843	U/L	200-1800				Pancreas
CK	605	↑ U/L	20-200				Myocardium, Skeletal muscle
CREA	90	umol/L	27-149				Kidney
BUN	5.30	mmol/L	2.5-11.5				Kidney
BUN/CREA	15						Calculated value
GLU	5.18	mmol/L	3.89-7.95				Whole Body
CHOL	2.19	↓ mmol/L	2.84-8.26				Whole Body
TRIG	0.78	mmol/L	0.1-0.9				
tCO2	17	mmol/L	12-27				Whole Body
Ca	1.47	↓ mmol/L	1.98-2.95				Whole Body
PHOS	0.31	↓ mmol/L	0.81-2.2				Kidney
Ca×P	6	mg/dL					
Mg	0.43	↓ 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.
TBIL	Elevated levels: ① Pre-hepatic diseases or hemolysis: canine ehrlichiosis, canine and feline babesiosis, onion poisoning, and other hemolytic diseases; ② Hepatic diseases: cholestatic hepatitis, infectious canine hepatitis, leptospirosis, bacterial hepatitis, cirrhosis, etc.; ③ Post-hepatic diseases: biliary obstructive diseases, gallstones, etc.; ④ Acute and chronic hepatitis, biliary tract obstruction, acute necrotic hepatitis, metastatic liver cancer, hemolytic jaundice, post-transfusion hemolysis, malignant anemia.
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.
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.
CHOL	Decreased levels: ① Feline hyperthyroidism; ② Low-fat diet; ③ Hepatic insufficiency; ④ Antiepileptic drugs; ⑤ Exocrine pancreatic insufficiency; ⑥ Protein-losing enteropathy; ⑦ High vitamin C levels; ⑧ Malabsorption/digestion issues.
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	Decreased levels: ① Diabetic ketoacidosis; ② Malignant tumor hypercalcemia; ③ Nutritional deficiency and malabsorption; ④ Primary hyperparathyroidism; ⑤ Insufficient vitamin D intake, alkalosis, insulinoma/hyperinsulinemia.



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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. John Paul Landingin

Date Reported: 25/07/2026

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



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