

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Cookie
Gender: Male
Sample ID: 2610290001

Owner Name: Winnie Barnachea
Age: 10 Years
Sample Type: Whole Blood

Species: Canine
Patient or Visit No.:
Time Tested: 29/10/2026 05:52:25

Test Panel: Comprehensive 24 Profile Tip :

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	59.7	g/L	52-82				Whole Body
ALB	12.7 ↓	g/L	22-44				Liver, Kidney
GLOB	47.0	g/L	20-52				Whole Body
ALB/GLOB	0.3						Calculated value
TBIL	3.03	umol/L	2-15				Whole Body, Liver
GGT	2.4	U/L	0-7				Liver
AST	299 ↑	U/L	8.9-55				Liver
ALT	48	U/L	10-140				Liver
AST/ALT	6.23						Calculated value
ALP	217 ↑	U/L	20-150				Liver
TBA	9.02	umol/L	0-20				Liver, Gallbladder
AMYL	855	U/L	200-1800				Pancreas
CK	2217 ↑	U/L	20-200				Myocardium, Skeletal muscle
CREA	719 ↑	umol/L	27-149				Kidney
BUN	23.0 ↑	mmol/L	2.5-11.5				Kidney
BUN/CREA	8						Calculated value
GLU	4.36	mmol/L	3.89-7.95				Whole Body
CHOL	5.77	mmol/L	2.84-8.26				Whole Body
TRIG	5.22 ↑	mmol/L	0.1-0.9				
tCO2	16	mmol/L	12-27				Whole Body
Ca	1.92 ↓	mmol/L	1.98-2.95				Whole Body
PHOS	3.41 ↑	mmol/L	0.81-2.2				Kidney
Ca×P	81	mg/dL					
Mg	0.80	mmol/L	0.6-1.09				

Clinical Significance

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.
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.
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.



Hospital Tel. : +639171533903
Hospital Add. : McArthur Highway, San Miguel, Calasiao, Pangasinan
Hospital Email : pdvc.calasiao@gmail.com



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.
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.

Veterinary Technician: n/a

Attending Veterinarian: Dr. Cassandra R. Oyan

Date Reported: 29/10/2026

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



Hospital Tel. : +639171533903
 Hospital Add. : McArthur Highway, San Miguel, Calasiao, Pangasinan
 Hospital Email : pdvc.calasiao@gmail.com

