

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Mojito

Owner Name: Mark Cuario

Species: Canine

Gender: Male

Age: 8 Years

Patient or Visit No.:

Sample ID: 2604130002

Sample Type: Serum

Time Tested: 13/04/2026 15:51:12

Test Panel: Comprehensive 24 Profile

Tip:

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	77.4	g/L	52-82				Whole Body
ALB	29.4	g/L	22-44				Liver, Kidney
GLOB	48.0	g/L	20-52				Whole Body
ALB/GLOB	0.6						Calculated value
TBIL	5.65	umol/L	2-15				Whole Body, Liver
GGT	0.7	U/L	0-7				Liver
AST	50	U/L	8.9-55				Liver
ALT	20	U/L	10-140				Liver
AST/ALT	2.50						Calculated value
ALP	222	↑ U/L	20-150				Liver
TBA	12.5	umol/L	0-20				Liver, Gallbladder
AMYL	723	U/L	200-1800				Pancreas
CK	288	↑ U/L	20-200				Myocardium, Skeletal muscle
CREA	301	↑ umol/L	27-149				Kidney
BUN	≥35.7	↑ mmol/L	2.5-11.5				Kidney
BUN/CREA	32						Calculated value
GLU	9.75	↑ mmol/L	3.89-7.95				Whole Body
CHOL	10.34	↑ mmol/L	2.84-8.26				Whole Body
TRIG	2.26	↑ mmol/L	0.1-0.9				
tCO2	16	mmol/L	12-27				Whole Body
Ca	2.40	mmol/L	1.98-2.95				Whole Body
PHOS	2.80	↑ mmol/L	0.81-2.2				Kidney
Ca×P	83	mg/dL					
Mg	1.46	↑ mmol/L	0.6-1.09				

Clinical Significance

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.
GLU	Elevated levels: ① Drugs: corticosteroids, progesterone; ② Physiological: postprandial, stress, excitement; ③ Diseases: diabetes mellitus, hyperadrenocorticism, acromegaly, hyperthyroidism, pancreatitis, pheochromocytoma.
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.



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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:

Attending Veterinarian:Dr. Ricardo Valdez

Date Reported:16/04/2026

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



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