

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Brussels
 Gender: Male
 Sample ID: 2605230001

Owner Name: Kathleen Idos
 Age: 5 Years
 Sample Type: Serum

Species: Canine
 Patient or Visit No.:
 Time Tested: 23/05/2026 20:18:50

Test Panel: Comprehensive 24 Profile

Test	Result	Unit	Reference Range	Low	Normal	High	
TP	72.5	g/L	52-82				Whole Body
ALB	25.7	g/L	22-44				Liver, Kidney
GLOB	46.8	g/L	20-52				Whole Body
ALB/GLOB	0.5						Calculated value
TBIL	2.18	umol/L	2-15				Whole Body, Liver
GGT	1.6	U/L	0-7				Liver
AST	≥1600 ↑	U/L	8.9-55				Liver
ALT	≥1500 ↑	U/L	10-140				Liver
AST/ALT	---						Calculated value
ALP	162 ↑	U/L	20-150				Liver
TBA	26.0 ↑	umol/L	0-20				Liver, Gallbladder
AMYL	897	U/L	200-1800				Pancreas
CK	2648 ↑	U/L	20-200				Myocardium, Skeletal muscle
CREA	153 ↑	umol/L	27-149				Kidney
BUN	6.99	mmol/L	2.5-11.5				Kidney
BUN/CREA	11						Calculated value
GLU	5.75	mmol/L	3.89-7.95				Whole Body
CHOL	3.78	mmol/L	2.84-8.26				Whole Body
TRIG	3.05 ↑	mmol/L	0.1-0.9				
tCO2	14	mmol/L	12-27				Whole Body
Ca	2.57	mmol/L	1.98-2.95				Whole Body
PHOS	3.12 ↑	mmol/L	0.81-2.2				Kidney
Ca×P	99	mg/dL					
Mg	1.02	mmol/L	0.6-1.09				

Clinical Significance

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.
ALT	Elevated levels: ① Drug effects; ② Hemolysis, lipemia causing false elevation; ③ Metabolic disorders and secondary liver diseases; ④ Hyperthyroidism, cardiac insufficiency, severe anemia, shock; ⑤ Primary hepatocyte and hepatobiliary diseases: infectious hepatitis, feline infectious peritonitis, leptospirosis, hepatotoxin diseases.
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.
TBA	Elevated levels: ① Significantly elevated in acute hepatitis; ② Chronic hepatitis, cirrhosis, liver cancer; ③ Congenital or acquired portosystemic shunts; ④ Cholestasis: biliary disease, acute and chronic biliary obstruction.
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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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.

Veterinary Technician: not specified

Attending Veterinarian: Dr. Marian Grace Wanagen

Date Reported: 24/05/2026

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



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