

Pet Doctors Veterinary Supplies and Services

Chemistry Test Report

Pet Name: Irish
 Gender: Female(Neutered)
 Sample ID: 2605130002

Owner Name: Randy Romero
 Age: 5 Years
 Sample Type: Serum

Species: Feline
 Patient or Visit No.:
 Time Tested: 13/05/2026 09:58:59

Test Panel: Comprehensive 24 Profile

| Test | Result | Unit | Reference Range | Low | Normal | High | |
|----------|--------|----------|-----------------|-----|--------|------|-----------------------------|
| TP | 70.1 | g/L | 54-89 | | | | Whole Body |
| ALB | 25.1 | g/L | 22-45 | | | | Liver, Kidney |
| GLOB | 45.0 | g/L | 15-57 | | | | Whole Body |
| ALB/GLOB | 0.6 | | | | | | Calculated value |
| TBIL | 15.44 | ↑ umol/L | 2-15 | | | | Whole Body, Liver |
| GGT | 6.5 | ↑ U/L | 0-2 | | | | Liver |
| AST | 90 | ↑ U/L | 9.2-60 | | | | Liver |
| ALT | 159 | ↑ U/L | 8.2-123 | | | | Liver |
| AST/ALT | 0.57 | | | | | | Calculated value |
| ALP | 149 | ↑ U/L | 10-90 | | | | Liver |
| TBA | 10.9 | umol/L | 0-15 | | | | Liver, Gallbladder |
| AMYL | 831 | U/L | 200-1800 | | | | Pancreas |
| CK | 1284 | ↑ U/L | 50-450 | | | | Myocardium, Skeletal muscle |
| CREA | 45 | umol/L | 27-223 | | | | Kidney |
| BUN | 2.04 | ↓ mmol/L | 3.6-15.5 | | | | Kidney |
| BUN/CREA | 11 | | | | | | Calculated value |
| GLU | 17.03 | ↑ mmol/L | 4.11-8.84 | | | | Whole Body |
| CHOL | 4.51 | mmol/L | 1.68-5.81 | | | | Whole Body |
| TRIG | 1.01 | ↑ mmol/L | 0.1-0.9 | | | | |
| tCO2 | 20 | mmol/L | 15-24 | | | | Whole Body |
| Ca | 2.15 | mmol/L | 1.95-2.95 | | | | Whole Body |
| PHOS | 0.73 | ↓ mmol/L | 1-2.74 | | | | Kidney |
| Ca×P | 19 | mg/dL | | | | | |
| Mg | 0.62 | ↓ mmol/L | 0.7-1.21 | | | | |

Clinical Significance

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| GGT | Elevated levels: ① Jaundice; ② Lipemia causing false elevation; ③ Drug effects: barbiturates, corticosteroids, nonsteroidal anti-inflammatory drugs, etc.; ④ Hepatic diseases: liver tumors, chronic hepatitis, cirrhosis, hepatic lipidosis; ⑤ Extrahepatic diseases: cholecystitis, gallstones, gallbladder mucinous cyst, hyperthyroidism, pancreatitis, hypoadrenocorticism, 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. |
| 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. |



Hospital Tel.: +639171533903

Hospital Add.: McArthur Highway, San Miguel, Calasiao, Pangasinan



| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| BUN | Decreased levels: ① Hepatic cirrhosis; ② Diabetes insipidus; ③ Portosystemic shunt; ④ Hepatic failure; ⑤ Low-protein diet and malnutrition. |
| GLU | Elevated levels: ① Drugs: corticosteroids, progesterone; ② Physiological: postprandial, stress, excitement; ③ Diseases: diabetes mellitus, hyperadrenocorticism, acromegaly, hyperthyroidism, pancreatitis, pheochromocytoma. |
| 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 | 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. |
| Mg | 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. Marian Grace Wanagen

Date Reported: 13/05/2026

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

