

# Pet Doctors Veterinary Supplies and Services

## Chemistry Test Report

Pet Name: Quia  
Gender: Female  
Sample ID: 2608270001

Owner Name: Almira Vidal  
Age: 2 Years  
Sample Type: Serum

Species: Canine  
Patient or Visit No.:  
Time Tested: 27/08/2026 08:46:40

Test Panel: Comprehensive 24 Profile

| Test     | Result | Unit     | Reference Range | Low | Normal | High |                             |
|----------|--------|----------|-----------------|-----|--------|------|-----------------------------|
| TP       | 65.3   | g/L      | 52-82           |     |        |      | Whole Body                  |
| ALB      | 31.0   | g/L      | 22-44           |     |        |      | Liver, Kidney               |
| GLOB     | 34.3   | g/L      | 20-52           |     |        |      | Whole Body                  |
| ALB/GLOB | 0.9    |          |                 |     |        |      | Calculated value            |
| TBIL     | 5.32   | umol/L   | 2-15            |     |        |      | Whole Body, Liver           |
| GGT      | 1.9    | U/L      | 0-7             |     |        |      | Liver                       |
| AST      | 55     | U/L      | 8.9-55          |     |        |      | Liver                       |
| ALT      | 59     | U/L      | 10-140          |     |        |      | Liver                       |
| AST/ALT  | 0.93   |          |                 |     |        |      | Calculated value            |
| ALP      | 183    | ↑ U/L    | 20-150          |     |        |      | Liver                       |
| TBA      | 4.77   | umol/L   | 0-20            |     |        |      | Liver, Gallbladder          |
| AMYL     | 514    | U/L      | 200-1800        |     |        |      | Pancreas                    |
| CK       | 189    | U/L      | 20-200          |     |        |      | Myocardium, Skeletal muscle |
| CREA     | 69     | umol/L   | 27-149          |     |        |      | Kidney                      |
| BUN      | 3.79   | mmol/L   | 2.5-11.5        |     |        |      | Kidney                      |
| BUN/CREA | 14     |          |                 |     |        |      | Calculated value            |
| GLU      | 5.90   | mmol/L   | 3.89-7.95       |     |        |      | Whole Body                  |
| CHOL     | 3.77   | mmol/L   | 2.84-8.26       |     |        |      | Whole Body                  |
| TRIG     | 0.80   | mmol/L   | 0.1-0.9         |     |        |      |                             |
| tCO2     | 14     | mmol/L   | 12-27           |     |        |      | Whole Body                  |
| Ca       | ≥4     | ↑ mmol/L | 1.98-2.95       |     |        |      | Whole Body                  |
| PHOS     | 0.36   | ↓ mmol/L | 0.81-2.2        |     |        |      | Kidney                      |
| Ca×P     | 24     | mg/dL    |                 |     |        |      |                             |
| Mg       | 0.49   | ↓ mmol/L | 0.6-1.09        |     |        |      |                             |

### Clinical Significance

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AST  | <b>Elevated levels:</b> 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  | <b>Elevated levels:</b> 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. |
| Ca   | <b>Elevated levels:</b> ① Chronic renal failure; ② Hyperlipidemia; ③ Excess vitamin D; ④ Adrenocortical insufficiency; ⑤ Primary hyperparathyroidism; ⑥ Malignant tumors: lymphoma, multiple myeloma, adrenal tumors.                                                                                                                                                                                                                                                                              |
| PHOS | <b>Decreased levels:</b> ① Diabetic ketoacidosis; ② Malignant tumor hypercalcemia; ③ Nutritional deficiency and malabsorption; ④ Primary hyperparathyroidism; ⑤ Insufficient vitamin D intake, alkalosis, insulinoma/hyperinsulinemia.                                                                                                                                                                                                                                                             |
| Mg   | <b>Decreased levels:</b> 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. Cassandra Jane R. Oyan

Date Reported: 27/08/2026

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



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