



Blood Chemistry Profiles

CVS maintains a full service lab and is able to perform diagnostic tests for equine, canine and feline patients. This allows us to gain results in a short period of time. Our Vet Scan machine has the ability to run certain blood chemistry panels within 15 minutes. This allows Dr Winter and his staff to get results quickly in order to devise a treatment plan.

Pre-surgical Blood Chemistry Panel

This panel tests basic organ function and indicates whether it is safe or not to put the animal under anesthesia prior to surgery. This information is kept on file. If retested in the future due to sickness or old age, it provides us with a baseline to compare it to. This panel is required prior to surgery.

Comprehensive Blood Chemistry Panel

This panel is used for sick animals and pets over 6 years of age. For older pets, this diagnostic tool is utilized to determine health issues in early stages. By providing supportive care, their lifespan will be extended. The sooner we detect health issues such as kidney failure, the sooner treatment begins. It may avoid further complications. When a pet is hospitalized for an illness, we test them prior to, during, and post treatment. It helps us to determine how well the treatment plan is working or if adjustments must be made.

- **Alanine Aminotransferase** - Liver diseases, heart diseases
- **Albumine** - Liver and kidney disease
- **Alkaline Phosphatase**– Liver, bone, parathyroid and intestinal disease
- **Amylase**– Kidney and pancreatic disease
- **Calcium**– Parathyroid, bone and chronic renal disease
- **Creatinine**– Renal disease
- **Globulin**– Globulin concentration will increase with dehydration and should also increase with antigenic stimulation
- **Glucose**– Diabetes, hyper and hypo glycemia, liver disease
- **Phosphorus**– Kidney disease, hypoparathyroidism, and nutritional disorders
- **Potassium**– Malnutrition and renal disease. This electrolyte is used to diagnose the causes of vomiting, diarrhea and cardiac symptoms
- **Sodium**– Dehydration and diabetes. This electrolyte is used to diagnose vomiting, diarrhea, and cardiac symptoms
- **Total Bilirubin**– Hepatic disorders
- **Total Protein**– Dehydration, kidney, liver disease, metabolic and nutritional disorders
- **Blood Urea Nitrogen**– Liver and kidney disease

Equine Profile Plus

This comprehensive panel is specialized for horses and is great in detecting health issues in older horses. For sick horses, it is a useful tool to diagnose an illness. Results are kept on file for future comparison. This profile is also used to determine the appropriate treatment plan.

Albumin - Liver and kidney disease.

Aspartate Aminotransferase - Liver disease (hepatitis and viral jaundice), shock and muscle damage.

Blood Urea Nitrogen - Liver and kidney diseases.

Calcium - Parathyroid, bone and chronic renal disease.

Creatine Kinase - Muscle damage, convulsions, heart disease, hypothyroidism.

Creatinine - Renal disease.

Gamma Glutamyl Transferase - Liver disease and tumors.

Glucose - Diabetes, hyper and hypo glycemia, and liver disease.

Total Bilirubin - Hepatic disorders.

Total Protein - Dehydration, kidney, liver disease, metabolic and nutritional disorders.

Potassium - Malnutrition and renal disease. This electrolyte is used to diagnose the causes of vomiting, diarrhea and cardiac symptoms.

T4— Thyroid Profile

This panel specifically tests thyroid function as well as cholesterol levels. It is used for horses that are being treated for thyroid malfunctions or metabolic disorders. Horses or pets that have difficulty maintaining an ideal weight or are on treatment for thyroid issues, should be checked yearly and treated accordingly. Treatment can be as simple as a change in feed or a supplement.