

# Biochemistry test report



Patient:	BLACKJACK	Species:	Canine	Patient ID:	250714854
Client:	REDONDO	Gender:	Neutered	Sample No.:	2
Doctor:		Age:	9Y	Time of analysis:	2025/07/19 14:55

Item		Current result		Ref. Ranges	
Protein	TP	↑	80.4	g/L	53.1-79.2
Protein	ALB	↓	22.1	g/L	23.4-40.0
Protein	GLOB	↑	58.4	g/L	25.4-52.0
Protein	A/G		0.4		
Liver and gallbladder	ALT		22.9	U/L	10.1-100.3
Liver and gallbladder	AST	↑	177.1	U/L	0.0-51.7
Liver and gallbladder	AST/ALT		7.75		
Liver and gallbladder	ALP		64.9	U/L	15.5-212.0
Liver and gallbladder	GGT		9.3	U/L	0.0-15.9
Liver and gallbladder	TBIL		3.42	μmol/L	0.00-15.00
Liver and gallbladder	TBA		<1.0	μmol/L	0.0-30.0
Pancreas	AMY		843.2	U/L	397.7-1285.1
Kidneys	BUN	↑	>65.00	mmol/L	2.50-9.77
Kidneys	CREA	↑	>2000.00	μmol/L	20.00-123.70
Kidneys	BUN/CREA		****		
Cardiovasc./Muscle	CK	↑	>2500.0	U/L	66.4-257.5
Cardiovasc./Muscle	LDH	↑	170.1	U/L	0.0-143.6
Energy metabolism	GLU	↑	14.93	mmol/L	3.80-7.50
Energy metabolism	TC		8.29	mmol/L	2.67-8.38
Energy metabolism	TG	↑	1.96	mmol/L	0.10-1.30
Minerals	Ca	↓	1.92	mmol/L	2.10-2.97
Minerals	PHOS	↑	>6.50	mmol/L	0.80-2.20
Minerals	CaxP		****	mmol/L^2	
Minerals	Mg	↑	1.51	mmol/L	0.61-1.06
Electrolytes	Na+		138.4	mmol/L	138.0-160.0
Electrolytes	K+		3.7	mmol/L	3.5-5.9
Electrolytes	Na/K		37.0		
Electrolytes	Cl-	↓	95.8	mmol/L	102.7-125.0

Operator:

## Comprehensive Diagnosis Panel

QC QC OK

HEM(Hemolysis degree):	0	LIP(Lipemia degree):	0	ICT(Jaundice degree):	0
------------------------	---	----------------------	---	-----------------------	---

The results only applies to this test sample. Test Instrument:Mindray vetXpert C5 Time of Printing:2025-07-19 15:38:22



PETVET CENTRAL VET CLINIC – BARRA  
ZONE 4, BARRA, OPOL, MISAMIS ORIENTAL  
0927 569 8880

Global Pioneer of Comprehensive Animal Medical Solutions  
Better healthcare for all - Since 1991



# Biochemistry test report



Patient:	BLACKJACK	Species:	Canine	Patient ID:	250714854
Client:	REDONDO	Gender:	Neutered	Sample No.:	2
Doctor:		Age:	9Y	Time of analysis:	2025/07/19 14:55



## Report Explan.

**TP**



Increase is commonly associated with dehydration and increased globulin. Reduction is commonly associated with blood loss, protein-losing enteropathy, and decreased albumin.

**ALB**



Increase is commonly associated with dehydration and corticosteroid administration, etc. Reduction is commonly associated with excessive infusion, malnutrition, hepatic insufficiency or failure, nephropathy, and protein-losing enteropathy.

**GLOB**



Increase is commonly associated with chronic inflammation and infection, and hyperimmunity, etc. Reduction is commonly associated with insufficient protein intake, anemia, and immunodeficiency.

**AST**



Increase is commonly associated with liver injury and muscle injury, etc.

**BUN**



Increase is commonly associated with high protein diet, gastrointestinal bleeding, nephropathy, and urinary obstruction, etc. Reduction is commonly associated with insufficient protein intake and liver failure, etc.

**CREA**



Increase is commonly associated with nephropathy, etc. Reduction is commonly associated with malnutrition and muscular atrophy, etc.

**CK**



Increase is commonly associated with trauma, increased muscle activity (such as tetanus and convulsion), myocarditis, and myocardial infarction, etc.

**LDH**



Increase is commonly associated with hemolysis (especially in canine), post-exercise, liver injury, exertional rhabdomyolysis, white muscle disease, myocardial injury, tumors, etc.

**GLU**



Increase is commonly associated with diabetes and hypercorticism, etc. Reduction is commonly associated with insulin administration, malnutrition, and insulinoma, etc.

**TG**



Increase is commonly associated with postprandial, obesity, diabetes and hypercorticism, etc.

**Ca**



Increase is commonly associated with hypoadrenocorticism, lymphoma, and nephropathy, etc. Reduction is commonly associated with low calcium diet, hypoalbuminemia, nephropathy, and vitamin D deficiency, etc.

**PHOS**



Increase is commonly associated with nephropathy, bone healing period, and hyperthyroidism. Decreased in hyperparathyroidism, tumor, etc.

**Mg**



Increase is commonly associated with nephropathy, hypoadrenocorticism, hypocalcemia, and muscle injury, etc. Reduction is commonly associated with gastrointestinal malabsorption, nephropathy, and hyperthyroidism, etc.

**Cl-**



Increase is commonly associated with salt intoxication, hypertonic NaCl solution rehydration, small intestinal diarrhea, etc. Reduction is commonly associated with vomiting, diuretic therapy, etc.

Note: Due to the complexity and individuality of disease diagnosis, the report interpretation is only for your reference. Please consult your doctors for clinical diagnosis results.  
The results only applies to this test sample.

Test Instrument: Mindray vetXpert C5 Time of Printing: 2025-07-19 15:38:22



PETVET CENTRAL VET CLINIC – BARRA  
ZONE 4, BARRA, OPOL, MISAMIS ORIENTAL  
0927 569 8880

Global Pioneer of Comprehensive Animal Medical Solutions  
Better healthcare for all - Since 1991

**mindray**  
animalcare