Biochemistry test report

Patient:	Butch	Species:	Canine	Patient ID:	2504123
Client:	Marvin Maramba	Gender:	Male	Sample No.:	0000004
Doctor:		Age stage:	Adult	Time of analysis:	2025/04/12 18:31

	Item		Current result		Ref. Ranges	
Protein	**TP**		**6.74**	g/dL	5.31-7.92	
Protein	**ALB**		**2.47**	g/dL	2.34-4.00	
Protein	**GLOB**		**4.27**	g/dL	2.54-4.40	
Protein	**A/G**		**0.6**			
Liver and gallbladder	**ALT**		**15.0**	U/L	10.1-100.3	
Liver and gallbladder	**AST**	↑	**97.6**	U/L	21.0-51.7	
Liver and gallbladder	**AST/ALT**		**6.52**			
Liver and gallbladder	**ALP**		**82.6**	U/L	15.5-125.0	
Liver and gallbladder	**GGT**		**<2.0**	U/L	0.0-15.9	
Liver and gallbladder	**TBIL**		**<0.10**	mg/dL	0.00-0.88	
Pancreas	**AMY**		**862.6**	U/L	397.7-1285.1	
Kidneys	**BUN**	↑	**30.94**	mg/dL	7.02-27.45	
Kidneys	**CREA**		**1.03**	mg/dL	0.38-1.40	
Kidneys	**BUN/CREA**		**29.8**			
Cardiovasc./Muscle	**CK**	↑	**475.2**	U/L	66.4-257.5	
Cardiovasc./Muscle	**LDH**	↑	**365.2**	U/L	36.4-143.6	
Energy metabolism	**GLU**	↓	**63.6**	mg/dL	68.5-113.3	
Energy metabolism	**TC**		**135.4**	mg/dL	103.2-324.1	
Minerals	**Ca**	↓	**<4.00**	mg/dL	9.20-11.88	
Minerals	**PHOS**		**6.00**	mg/dL	3.10-6.81	
Minerals	**CaxP**		****	mmol/L^2		
Electrolytes	**tCO2**	↓	**9.82**	mmol/L	13.14-25.13	
Electrolytes	**Na+**	↓	**138.4**	mmol/L	141.6-160.0	
Electrolytes	**K+**	↑	**8.3**	mmol/L	3.5-5.9	
Electrolytes	**Na/K**		**16.6**			
Electrolytes	**Cl-**	↓	**95.6**	mmol/L	102.7-125.0	

Operator:

Comprehensive Diagnosis Panel **QC QC OK**

HEM(Hemolysis degree):	3+	LIP(Lipemia degree):	0	ICT(Jaundice degree):	0

The results only applies to this test sample. Test Instrument:Mindray vetXpert C5 Time of Printing:2025-04-12 18:33:15

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Report Explan.

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.
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 hypercorticalismus, etc. Reduction is commonly associated with insulin administration, malnutrition, and insulinoma, 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.
tCO2	↓	Increase is commonly associated with metabolic alkalosis and respiratory acidosis; Reduction is commonly associated with metabolic acidosis, respiratory alkalosis
Na+	↓	Increase is commonly associated with salt intoxication, hypertonic NaCl solution rehydration, hyperaldosteronism, and severe dehydration, etc. Reduction is commonly associated with hypoadrenocorticism, diuretic therapy, etc.
K+	↑	Increase is commonly associated with high potassium fluid replacement, diabetes, adrenocortical hypofunction, and acute kidney injury, etc. Reduction is commonly associated with low potassium or potassium-free fluid replacement, vomiting, diarrhea, and hypercorticalismus, 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.

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