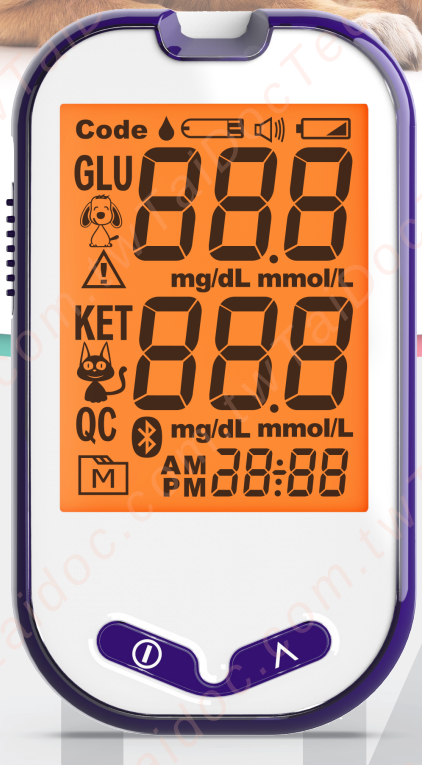
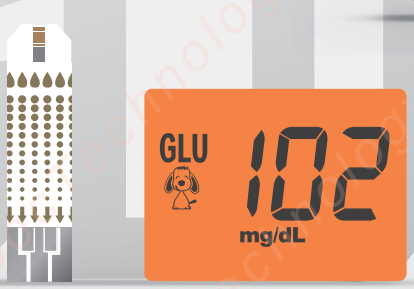
PET

TD-4257

Blood Glucose Plus β-Ketone Monitoring System





FEATURES

- Automatic Strip Identification - Glucose or Ketone
- A specific calibration for dogs and cats, and no need for Coding
- XPER Strip technology

Why Do You Need- PET Blood Glucose Plus β-Ketone Meter

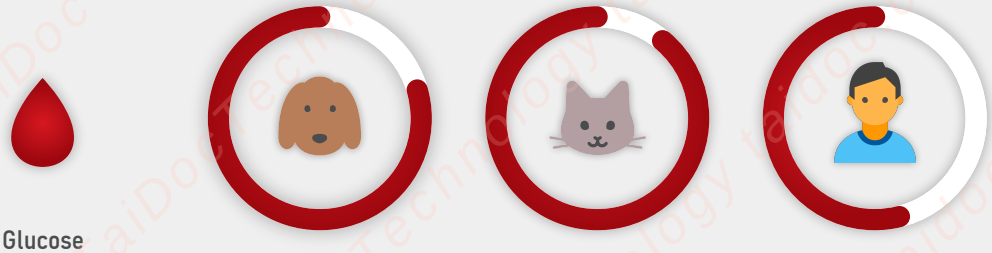
When we test pets' blood glucose level on human portable blood glucose meters, the reading results will always be significantly lower than it should have, especially for dogs and cats.

The reason is that animals have a different blood glucose composition from human beings. For example, the blood glucose concentration in plasma blood for dogs and cats is much higher than human beings.

In addition to that, Hematocrit level is another influential factor affecting glucose level measurement, since the percentage of Hematocrit for dogs and cats is different to each other and to human respectively.

Human portable blood glucose meters are designed according to human blood composition, so if we use human blood glucose meters for pets, the meter will calculate the glucose level based on human blood composition, which will lead to underestimated results.

For diabetic cats and dogs, monitoring ketone levels is crucial. High blood ketone levels can indicate a state of diabetic ketoacidosis (DKA), a serious and potentially life-threatening complication of diabetes. Therefore, PET Blood Glucose Plus β-Ketone Meter would be a better option for your pets.



Glucose Percentage in Plasma

87.5% 93% 58%

Reference

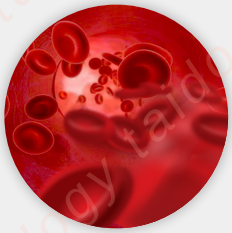
- THE DISTRIBUTION OF GLUCOSE IN HUMAN BLOOD, Eaton M. MacKay J. Biol. Chem. 1932, 97:685-689.
- Feline Diabetes, An Issue of Veterinary Clinics: Small Animal Practice. Jzacquie Rand

https://www.veterinaryirelandjournal.com/small-animal/117-diabetic-ketoacidosis-in-cats-and-dogs

What is HCT?

Hematocrit (HCT) is the percentage of the red blood cells in the blood. The higher HCT level will have lower blood glucose result, and the lower HCT level will have higher blood glucose result.

Hematocrit (HCT) level varies between human and pets.



43.3%-59.3%
Normal HCT Range

29.3%-49.8%
Normal HCT Range

38%-54%
Normal HCT Range

Reference:

- http://www.veterinarypartner.com/Content.plx?A=2595

THE PET HEALTH LIBRARY, By Wendy C. Brooks, DVM, DipABVP Educational Director, VeterinaryPartner.com

Plasma | Red Blood Cells

Glucose

87.5% of glucose | 12.5% of glucose

93% of glucose | 7% of glucose

58% of glucose | 42% of glucose

*Example of Hematocrit Presence with Glucose Distribution in Plasma and Red Blood Cell

What will Taidoc PET Benefit You

PET Blood Glucose Plus β-Ketone Meter can provide the most accurate results for your pets.

- A specific calibration code chip for dogs and cats. There is a specific calibration for dogs and cats, and no need for coding.
- XPER Technology will correct the blood glucose and β-Ketone level according to the different hematocrit range and the precise hematocrit value from blood samples taken from dogs and cats.

NO CODING

Specifications-Meter

Ketone Warning	Yes
Communication	Strip port
Power Source	AAA x 2
Memory Capacity	400 sets
Dimension	97(L) x 53.7(W) x 21.7(H) mm
Weight	81g (without battery)
Operating Condition	8°C to 45°C (46.6°F to 113°F) and 10% to 90% R.H. (Glucose) 10°C to 40°C (50°F to 104°F) and 10% to 85% R.H. (Ketone)
Storage Condition	-20°C to 60°C (-4°F to 140°F) (Meter); 2°C to 30°C (35.6°F to 86°F) (Strip)

Specifications-Strip

Strip Type	Glucose	Ketone
Enzyme Type	GDH-FAD	HBD
Sample Size	0.5 µL	0.8 µL
Reaction Time	5 seconds	10 seconds
Measurement Range	10~800 mg/dL (0.56~4.44 mmol/L)	0.1~8.0 mmol/L
Hematocrit Range	0%~70%	10%~70%
Precision	SD < 5 mg/dL (0.278 mmol/L) at < 100 mg/dL (5.55 mmol/L); CV < 5% at 100 mg/dL (5.55 mmol/L)	≦2mmol/L, SD<0.15mM; >2mmol/L, CV<7.5%
Accuracy	±15 mg/dL if < 100 mg/dL; ±15% if ≧ 100 mg/dL	

Shipping Info

Units Per Carton	48
Gross Weight Per Carton	14.8 kg
Carton Size	45.6 (L) x 37.8 (W) x 36.8 (H) cm

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