TD-4239

BLOOD GLUCOSE MONITORING SYSTEM





FEATURES

- Work for dogs or cats
- HCT Range: 0 ~ 70%
- RS232 Data transmission
- 4 daily alarms



2 + 2 Bio - Signal Technology

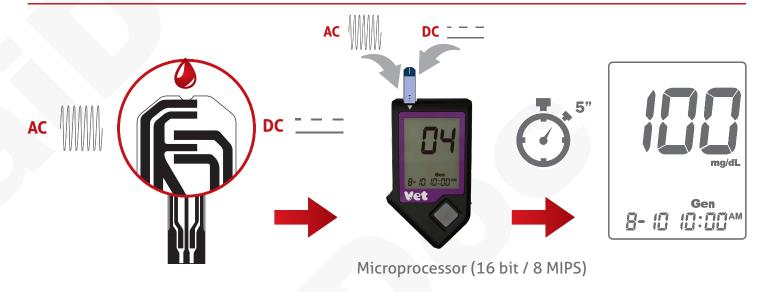
TaiDoc patented 2 + 2 (HCT Interference Compensation; 2 enzymes plus 2 signals) technology uses two different wales on the strips to detect HCT value by AC signal and glucose value by DC signal.



A specific calibration code chip for dogs and cats

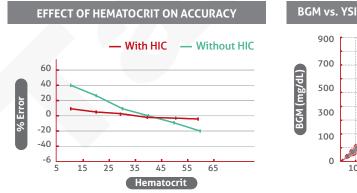
VET Glucose Monitoring System

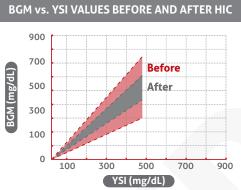
Feature



The Result

Simultaneous measurement of patient's hematocrit with algorithmic adjustment of glucose result.





What will Taidoc VET Benefit You

VET PBGMs can provide the most accurate results for your pets.

- A specific calibration code chip for dogs and cats
- 2+2 Bio-Signal Technology will correct the blood glucose level according to the different hematocrit range and the precise hematocrit value from blood samples taken from dogs and cats.

	Dog	Cat
HCT Range	43.3 - 59.3%	29.3 - 49.8%

Reference:

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

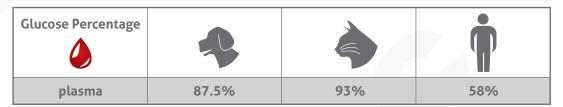
Why Do You Need - VET Glucose Meter

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. Therefore, TaiDoc Vet Portable Blood Glucose Meters would be a better option for your pets.



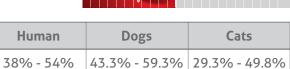
Reference:

- 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

What is HCT?

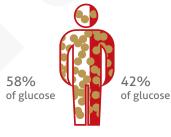


Hematocrit (HCT) is the percentage of the red blood cells in the blood. The higher HCT level will have lower blood glucose result, and the lower HCT level will have higher blood glucose result.

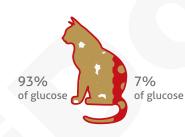


Hematocrit (HCT) level varies between human and pets. normal HCT level for

Plasma Red Blood Cells Glucose





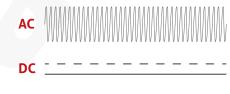


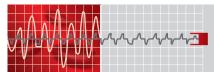
*Example of Hematocrit Presence with Glucose Distribution in Plasma and Red Blood Cell

Benefits of the 2 + 2 Technology



- TaiDoc patented 2 + 2 (HCT Interference Compensation; 2 enzymes plus 2 signals) technology uses two different wales on the strips to detect HCT value by AC signal and glucose value by DC signal.
- Utilizing AC signal is used to calculate the hematocrit value in order to compensate the correct value for fast, small volume, accurate test.
- Utilizing DC signal is to calculate the glucose value.









SPECIFICATIONS

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Enzyme Type	GDH-FAD	
Sample Size	1.0 μL	
Reaction Time	5 seconds	
Measurement Range	10 ~ 600mg/dL (0.55 ~ 33.3mmol/L)	
Hematocrit Range	0-70 %	
Precision	SD < 5mg/dL (0.278mmol/L) at < 100mg/dL (5.55mmol/L);	
	CV < 5% at 100mg/dL (5.55 mmol/L)	
Accuracy	±15mg/dL if ≦100mg/dL; ±15% if >100mg/dL	
Communication	RS232	
Power Source	CR2032 x1	
Memory Capacity	400 sets	
Day Average	7, 14, 21, 28, 60, 90 days	
Daily Alarm	4 daily alarms	
Dimension	96 (L) x 49.0 (W) x 14.0 (H) mm	
Weight	42 g (without battery)	
Operating Condition	+10°C (50°F) ~ +40°C (104°F), below 85 % R.H.	
Storage Condition	-20°C (-4°F) ~ +60°C (140°F) (Meter);	
	2°C(35.6°F) ~ 30°C(86.0°F) (Strip)	
Units Per Carton	30	
Carton Size	476 (L) x 370 (W) x 400 (H) mm	
Gross Weight Per Carton	10.5 kg	



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