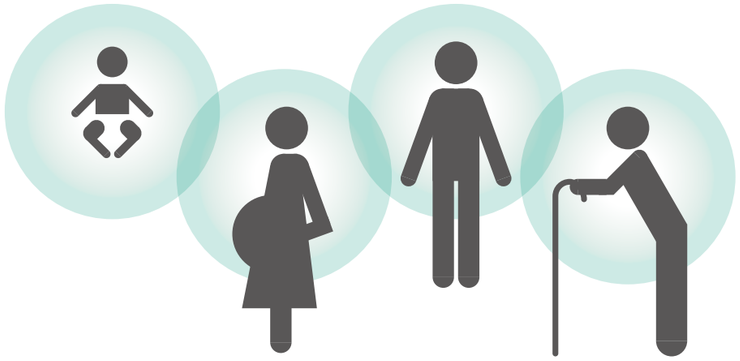
TD-4257A

BLOOD GLUCOSE METER

ISO 15197:2013

±15mg/dL&±15%



1 Drop 2 Results

FEATURES

- Display Glucose and Hematocrit value
- Strip eject function
- Large LCD with back light / Ketone warning
- Before / After meal (AC/PC) presetable
- 7, 14, 21, 28, 60, 90 day average function

2+2 Bio Signal

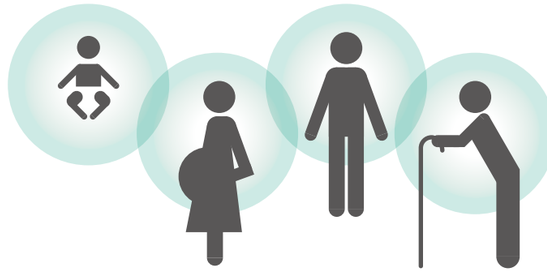
2 + 2 Bio - Signal Technology

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.

2 in

Display HCT Result

TaiDoc's 2+2 Blood glucose and hematocrit monitoring system displays both blood glucose level and hematocrit level at the same time. The user can read both results without pressing any key.



SPECIFICATIONS

Enzyme Type	GDH-FAD
Sample Size	1.0 µL
Reaction Time	5 seconds
Measurement Range	10 ~ 600mg/dL (0.5 ~ 33.3mmol/L)
Hematocrit Range	0% - 70%
Precision	±5% with respect to standard
Accuracy	±15mg/dL if ≦100mg/dL; ±15% if >100mg/dL
Ketone Warning	Yes
Communication	RS232 / Bluetooth (Optional)
Power Source	2 x AAA
Memory Capacity	1000 sets
Day Average	7, 14, 21, 28, 60, 90 days
Daily Alarm	4 daily alarms
Dimension	102 (L) x 64 (W) x 29.5 (H) mm
Weight	96.7 g (with battery)
Operating Condition	10°C (50°F) ~ 40°C (104°F)
Storage Condition	-20°C (-4°F) ~ +60°C (140°F) (Meter);
	2°C (35.6°F) ~ 32°C (89.6°F) (Strip)
Units Per Carton	30
Carton Size	405 (L) x 390 (W) x 365 (H) mm
Cross Weight Per Carton	7.5 kg

TaiDoc

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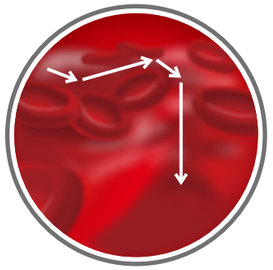
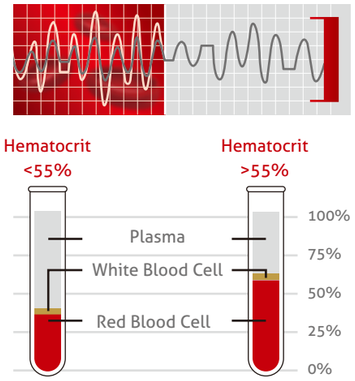
What is HCT?



Hematocrit (HCT) is the percentage of the red blood cells in your 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 individuals, normal HCT level for

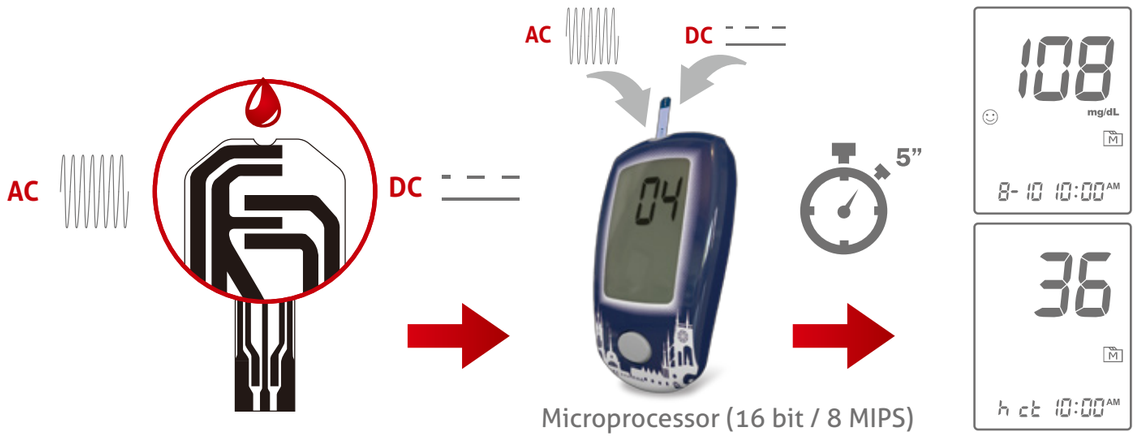
Adult Male	42% - 54%
Adult Female	38% - 46%
Kidney Dialysis Patients	> 33% - 36%



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.

Feature

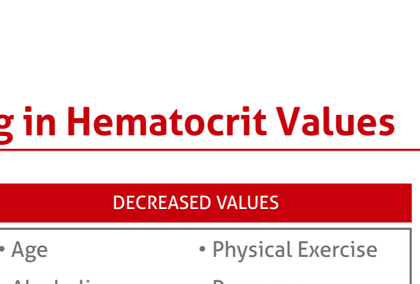


The Result

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

EFFECT OF HEMATOCRIT ON ACCURACY

BGM vs. YSI VALUES BEFORE AND AFTER HIC



GDH-FAD

- To avoid the oxygen interference during the blood glucose measurement.
- FAD coenzyme shows no reactivity to any sugars other than glucose.
- FAD coenzyme also shows better heat-resistance and oxygen-resistance.

BLOOD SAMPLE TYPE				
Strip Enzyme	**Artery**	**Vein**	**Capillary**	**Dialysis Patient with Maltose**
GDH-FAD	●	●	●	●
GOD			●	●
GDH-PQQ	●	●	●	

Risk Factors or Reason of Changing in Hematocrit Values

INCREASED VALUES	DECREASED VALUES	
• Dehydration	• Age	• Physical Exercise
• Newborns	• Alcoholism	• Pregnancy
• Psychic Stress	• Angioplasty	• Surgical Procedure
• Sample Transport And Storage	• Cold Agglutinins	
• Sex (Higher Values in Men)	• Favism	
• Smoking	• Hemodialysis	
• Vitamin B12	• Lysol (Intravascular Hemolysis)	
	• Oxalates	