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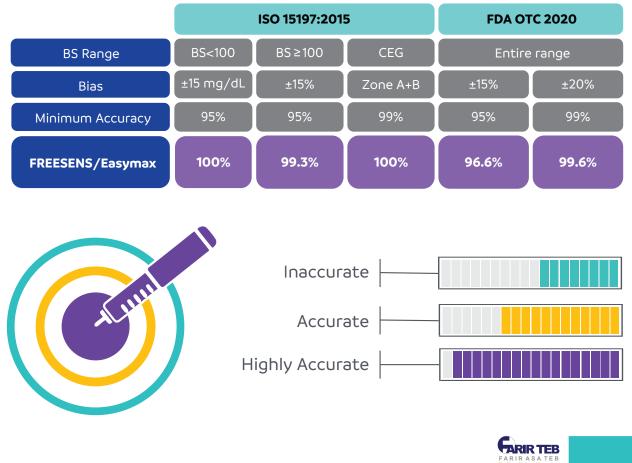
حامی آکادمی مجازی دیابت گابریک



Guidelines for Approval of Glucose Monitoring Devices



FREESENS: Highly Accurate Results



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FREESENS: Cutting Edge BGM Technology



Hematocrit Correction:

Applying AC voltage to the blood sample and processing the electric response signal, the system can calculate HCT and compensate the inaccuracies related to HCT variation.

Clinical Implication:

- -Wide hematocrit range coverage: 10-65%
- -Accurate readings in specific populations including smokers, pregnant women and neonates.



No Coding Technology:

High Quality Enzyme Purification and Precise Enzyme Dispensing

Clinical Implication:

- -Ease of use
- -Improved accuracy due to reduction in Lot-to-lot variability
- -Eliminating miscoding errors



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Temperature Correction:

Using both built-in temperature sensor and multi sensor predictive algorithm to compensate for temperature variability.

Clinical Implication:

-Accurate readings when temperature changes within the working range -Report error codes "Ht" or "Lt" when the ambient temperature is out of the working range.



Dual Under Filling Detection:

Using both the extra electrode and insufficient sample detection algorithm to ensure the elimination of all under filling related inaccuracies.

Clinical Implication:

- Accurate results in patients prone to insufficient blood sampling, such as uneducated patients, children and those with hand tremor
- Report error code "E-2" in case of insufficient blood sample volume.



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FREESENS: Advanced Strip Chemistry



Advanced Enzyme:

Higher accuracy by using GDH-FAD enzyme and an specific mediator

Clinical Implication :

- -Accurate results in patients with respiratory diseases or under oxygen therapy.
- -Accurate results with both venous and capillary whole blood samples.
- -After opening, test strips can be used up to 6 months.
- -2-year shelf-life



Minimum Interference:

High substrate specificity with no interference from 61 substances

Clinical Implication:

- -Covers majority of endogenic and exogenic substance including uric acid, acetaminophen, salicylates, ascorbic acid, maltose, galactose and commonly prescribed DM and HTN medications.
- -Accurate readings in patients with kidney failure, heart failure, HTN and inherited metabolic disorders like galactosemia.

	FREESENS	Glucocard 01
Accuracy BS < 100 Within±15mg/dl	100%	100%
ISO 15197 : 2015 BS ≥100 Within±15%	99.3%	96.5%
Coding Technology	No Coding	Auto Coding
Test Time	5 Seconds	7 Seconds
Hematocrit Range	10-65 %	35-50 %
Enzyme	GDH - FAD	GOD
Memory Capacity	880	50
Color Indicator	+	-
Pre/Post Meal Indicator	+	+
Connectivity	+(NFC)	-
Sample Volume - (µL)	0.6	0.3

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