







Epithod® 616

Healthcare professionals will have quantitative results rapidly with the highest accuracy and precision for Glycated Albumin and HbA1c.

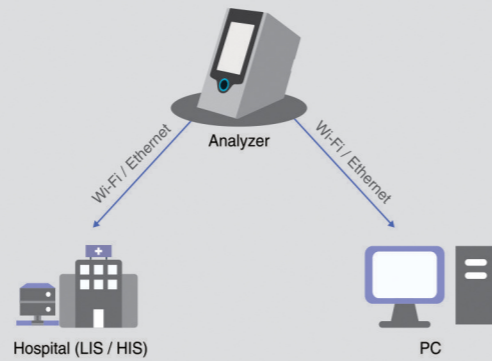
Features

-  Smart NFC card
-  Built-in speaker
-  Automatic cartridge loader
-  7-inch full color touch screen
-  Built-in thermal printer
-  Full-IT LIS connectivity
Ethernet, Wi-Fi, USB



Specifications

Model: Ep.616	
Dimension (cm)	14.5 (W) x 21.0 (L) x 24.0 (H)
Weight	1.5 Kg
Power	DC 12 V adapter (Optional: Ext. battery)
Data	20,000 results
Methodology	Reflectance bi-chromatic photometry



Product Line



Epithod® AutoDx **1-STEP**

Model: Ep.414

- Automatic walk-away convenience
- Pipette-free operation
- Multiple diabetes tests
- Glycated Albumin and HbA1c



Immuno-assay Analyzer **OEM**

Model: Ep.616-R

- Fluorescence or imaging photometry
- Quantitative or qualitative tests
- Portable and user friendly
- Customizable for various rapid test kits

Future parameter

	HbA1c - eAG	Glycated Albumin	Serum Albumin	Hemoglobin *	Tuberculosis Ag *	Microalbumin *	hs - CRP / CRP *
Epithod® 616	●	●	●	●	●	●	●
Epithod® AutoDx	●	●	●	●	●	●	●

* To be developed



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E0LFE04 (2018.7)

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www.fybreeds.com

Epithod® 616

A Fast, Reliable testing for small and medium sized lab

HbA1c Glycated Albumin



Model : Ep. 616

Point-of-Care (POC) Testing

www.dxgenco.com



HbA1c

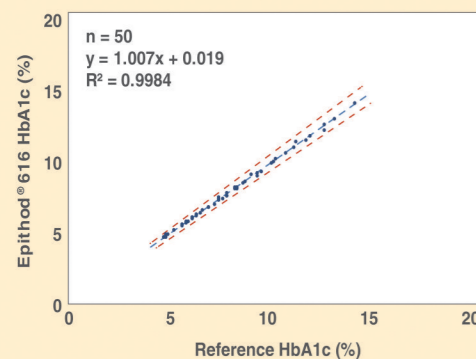
Test Kit



Specifications

Assay principle	Boronate affinity chromatography
Sample type	Whole blood (venous, capillary)
Sample volume	5 µL
Test result	HbA1c, eAG
Test range	HbA1c: 3 ~ 15 % (NGSP), 9 ~ 140 mmol/mol (IFCC) eAG: 39 ~ 384 mg/dL, 2.2 ~ 21.3 mmol/L
Assay time	< 3 minutes
Detection time	5 seconds
Reference analyzer	Tosoh G11 (HPLC)
Storage condition	R1: 2 ~ 10 °C W1: Room Temp.

System Performance

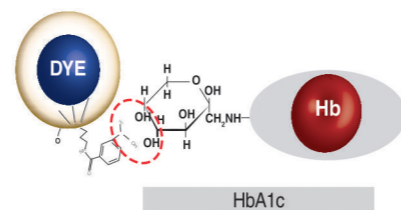
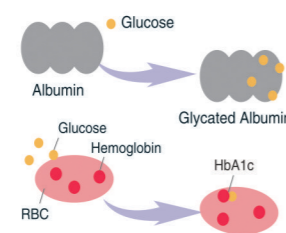
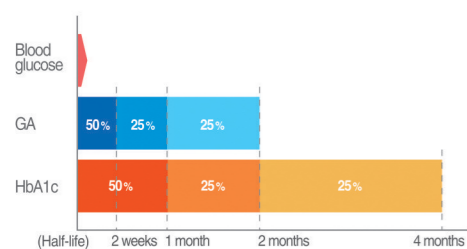


Control solution	Within-Run Precision			Day-to-Day Precision		
	1	2	3	1	2	3
Mean concentration (%)	4.7	5.9	9.7	4.6	5.9	9.8
STD	0.13	0.16	0.24	0.13	0.15	0.24
CV (%)	2.8	2.7	2.5	2.8	2.5	2.4

Test Procedure



Glycated Albumin VS HbA1c



Albumin has a shorter half-life compared to hemoglobin. Glycated Albumin represents mean glycemia over the prior 2-4 weeks while HbA1c represents prior 3-4 months. Glycated Albumin measurements may be useful when HbA1c cannot provide an accurate assessment or when a shorter time frame of mean glycemia would be useful.

Epithod®616 Test Kits are a new application of the boronate affinity principle. The nano-bio technology enhances consistency and accuracy.

Glycated Albumin

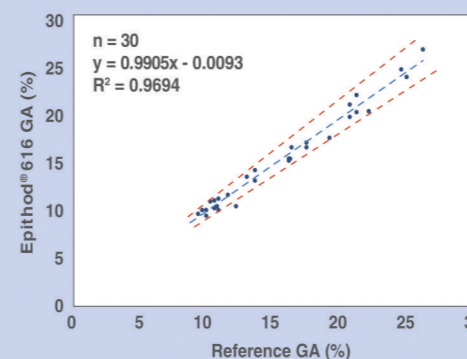
Test Kit



Specifications

Assay principle	Boronate affinity chromatography
Sample type	Serum or plasma
Sample volume	5 µL
Test result	Glycated Albumin, Albumin
Test range	Glycated Albumin: 8 ~ 28 %, Albumin: 20 ~ 80 g/L
Assay time	Glycated Albumin: < 7 minutes Albumin: < 3 minutes
Detection time	5 seconds
Reference analyzer	Olympus clinical chemistry analyzer
Storage condition	R1, R2 : 2 ~ 10 °C W1, W2 : Room Temp.

System Performance



Control solution	Within-Run Precision			Day-to-Day Precision		
	1	2	3	1	2	3
Mean concentration (%)	11.4	17.1	22.9	13.6	19.2	25.7
STD	0.41	0.57	0.75	0.47	0.64	0.81
CV (%)	3.5	3.3	3.2	3.4	3.3	3.1

Glycated Albumin and HbA1c tests provide more precise assessment of glycemic control to cover entire stage of diabetes care

