Automatic Glycohemoglobin Analyzer

ADAMS A1c

HA-8180T



All-in-one solution for diabetes testing and β-thalassemia testing.

Scan QR Code to view the video

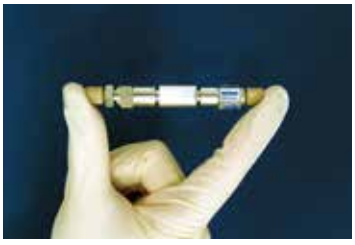
arkray, inc.

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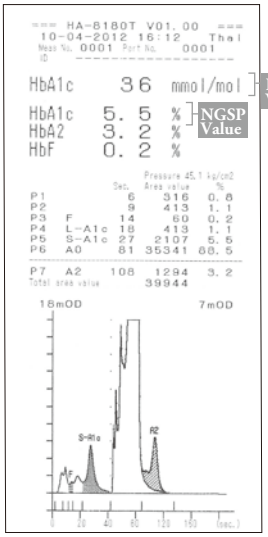
Measurement Speed

HA-8180T uses the HPLC method as its measurement principle. Time until first report is 5.4 minutes or less. For subsequent samples, measurement takes just 3.5 minutes.



Sample-stirring function

The automatic sample-stirring function before measurement prevents fluctuation in measurement results caused by blood cell sedimentation.



Measurement Accuracy

HPLC technology provides accurate results, including detailed chromatogram. It will be shown in both IFCC and NGSP units. HA-8180T can have an advantage in β thalassemia testing.



Easy-to-follow user interface: Save time, avoid errors

A large-size color LCD displays actual result, shows analyzer status, comments to operation procedure or informs the user about the remaining reagent volume.



Easy-to-maintain

No special tools are required for daily maintenance. Exchanged parts are hand-tightened, minimizing the workload of the user. The pre-filter is already integrated with the column eliminating the hassle of exchanging it. Replacement of the filter is not required throughout the column life.



Cap-piercing method

The HA-8180T uses a cap-piercing method which enables the setting of capped blood collection tubes in sample racks.
The accurate and direct aspiration of blood samples not only reduces workload but also helps to protect lab technicians from infection.

Specifications

Samples	Whole blood or hemolysis sample
Measurement items	HbA1c（Stable HbA1c, S-A1c）, HbA2 and HbF (HbS, HbC, HbE and HbD can be detected.)
Reagents *1	ELUENT 80A, ELUENT 80B, ELUENT 80CT and HEMOLYSIS WASHING SOLUTION 80H
Column *2	COLUMN UNIT 80T
Measurement principle	Reversed-phase cation exchange chromatography
Detection method	Dual-wavelength colorimetry (wavelengths measured: 420nm/500nm)
Resolution	0.1% Ratio, 1 mmol/mol
Measurement range *3	HbA1c : 3-20%, 9-195 mmol/mol HbA2 : 2-10% HbF : 0-100%
Guaranteed measurement range *4	HbA1c : 4.2-12.9%, 22-117 mmol/mol HbA2 : 2.4-6.3% HbF : 0.1-14.3%
Processing speed	210 seconds per sample
Sample consumption	Approx.14 L（whole blood）
Sample container	Blood collection tube（12.3 to 15mm diameter）×（75 to 100mm length） Sample cup（500 L）
Sampling method	Cap-Piercing
Rack type	ARKRAY racks
Number of measurement samples	One-way transportation (factory set) : Maximum 50 samples Loop transportation : Maximum 100 samples
Column temperature	Approx. 39℃
Display	Color graphic LCD with backlight
Memory capacity	500 test results (including calibration results)
Built-in Printer	Thermal printer, 58mm thermal paper
External output	Serial 1 port (Can be optionally used as an Ethernet port.)
Measurement conditions	Temperature : 15-30℃ Humidity : 20-80% relative humidity (non-condensing)
Required sample volume	Blood collection tube : Minimum 10mm away from the bottom Sample cup : 400 L or more
Warm-up time	Maximum 30 min.
Dimensions	530（W）×530（D）×530（H）mm (Not including the hemolysis washing solution bottle)
Weight	Analyzer: Approx. 39kg, Sampler: Approx. 4kg
Power supply	AC100V-240V ±10% 50/60Hz
Power consumption	Max. 300 VA

*1, *2 Reagents and column are sold separately from HA-8180T analyzer.
*3 Error-free measurement ranges.
*4 Guaranteed ranges for obtaining results equivalent to those from HA-8160 TP mode measurement.
※Design and specifications may be changed without prior notice

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