

Automatic Glycohemoglobin Analyzer

ADAMS™ A1c

HA-8180V



High speed and superior quality
2 modes: Variant mode and Fast mode

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The fastest measurement in the world

The HA-8180V incorporates unique HPLC column technology to make it the fastest analyzer of its kind in the world.

Variant Mode

Time until first report is just 3.5 minutes. For subsequent samples, measurement takes just 90 seconds.

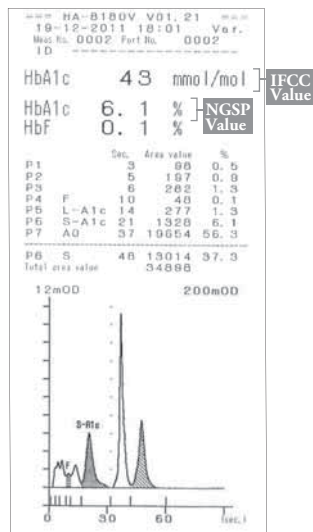
Fast Mode

Time until first report is just 1.9 minutes. For subsequent samples, measurement takes just 48 seconds.

Easy-to-switch

Switching between Variant mode and Fast mode is performed via the operator panel on the analyzer, making things simpler for the user.

The same reagents and column are used for both Variant and Fast modes.



Highly-accurate measurements

The highly accurate measurements are the result of the HPLC measurement principle.

The measurement result includes information of each peak and chromatogram.

The result will be shown in both IFCC and NGSP units.

In addition to measuring HbA1c and HbF, HA-8180V can detect variant Hb (HbS and HbC) in the Variant mode.



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.



Sample-stirring function

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



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-8180V 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), HbF (HbS and HbC can be detected in Variant mode)
Reagents *1	ELUENT 80A, ELUENT 80B, ELUENT 80CV and HEMOLYSIS WASHING SOLUTION 80H
Column *2	COLUMN UNIT 80
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 HbF : 0-100%
Guaranteed measurement range *4	HbA1c : 4-16%, 20-151 mmol/mol HbF : 0.3-5%
Processing speed	Variant mode : 90 seconds per sample Fast mode : 48 seconds per sample
Sample consumption	Approx. 14μL (whole blood)
Sample container	Blood collection tube (12.3 to 15mm diameter) × (75 to 100mm length) Sample cup (500μL)
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. 40
Display	Color graphic LCD with backlight
Memory capacity	900 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 : 10-30 Humidity : 20-80% relative humidity (non-condensing)
Required sample volume	Blood collection tube : Minimum 10mm away from the bottom Sample cup : 400μL 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
Altitude	Up to 2,000m

*1, *2 Reagents and column are sold separately from HA-8180V analyzer.

*3 Error-free measurement ranges.

*4 Guaranteed ranges for obtaining results equivalent to those from HA-8160 VP mode measurement.
Design and specifications may be changed without prior notice

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