

Automatic Glycohemoglobin Analyzer



ADAMS™ A1C  
HA-8180

MADE IN JAPAN

# High-speed - Superior Quality

High-speed measurement, at only  
48 seconds per sample.

High-precision measurement using  
HPLC method.

Easy-to-follow user interface.

Sample-stirring function.

Easy to maintain.

HbA<sub>1c</sub> standardization-compatible  
according to IFCC.



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## Minimum measurement time

Measurement time of 48 seconds per sample is possible because of the HPLC column. It takes only 1.9 minutes to get the first report for immediate feedback.



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

A large-size color LCD displays actual result and chromatogram, shows analyzer status, comments to operation procedure or informs in time about remaining quantity of reagent.



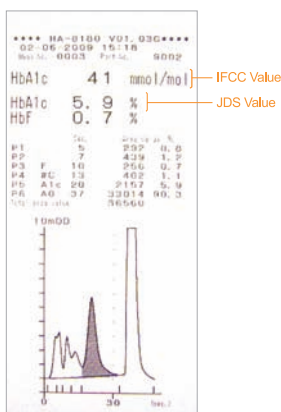
## Highly-accurate measurements

The highly accurate measurements can be obtained thanks to the HPLC measurement principle.

The measurement result includes information of each peaks and chromatogram both of which can be utilized for analysis.

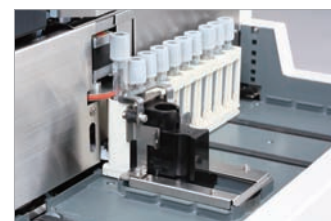
The result will be shown both as IFCC and NGSP values.

- Please note that the measured A1c value may be lower when a sample includes variant hemoglobin.



## Sample-stirring function

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



## Easy-to-maintain

No special tools required for daily maintenance. The exchange of parts is hand-tightened, minimizing the workload of the user. The Pre-filter is already integrated with the column eliminating the hassle of exchanging it.

| Samples               | Whole blood and hemolysis   |
|-----------------------|---|
| Measured items        | HbA1c (Stable HbA1c), HbF   |
| Measurement principle | Reversed-phase cation exchange chromatography   |
| Detection method      | Dual-wavelength colorimetry (wavelengths measured: 420nm/500nm)                           |
| Resolution            | 0.10%   |
| Measurement range     | HbA1c : 3-20%, 14-191mmol/mol, HbF : 0.3-5%   |
| Throughput            | 48 seconds per sample (including time required for a sample-stirring)                     |
| Sample volume         | Approx. 14 (whole blood)  |
| Sample container      | Blood collection tube (12.3 to 15mm diameter x 75 to 100mm length)<br>Sample Cup (500 μL) |
| Sampling method       | Cap-Piercing  |
| Rack                  | ARKRAY racks  |
| Column temperature    | Approx. 40%   |

| Samples                     | Whole blood and hemolysis                         |
|-----------------------------|---|
| External output             | RS-232C   |
| Measurement conditions      | 10-30°C, 20-80% relative humidity                 |
| Display                     | Color graphic LCD with backlight                  |
| Built-in Printer            | Thermal printer, 58mm thermal paper               |
| Sample loading capacity     | A maximum of 100 samples (when set for loop feed) |
| Min. required sample volume | Blood Collection Tube: 1mL<br>Sample Cup: 400 μL  |
| Power supply                | AC100V-240V ±10% 50/60Hz                          |
| Power input                 | Max. 300 VA                                       |
| External dimensions         | 530 (W) × 530 (D) × 530 (H) mm                    |
| Weight                      | Analyzer: Approx. 38kg, Sampler: Approx. 4kg      |

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