iQ▶A1c Plus

INTER BIO-LAB, INC.
Technology for the Future

AUTO HbA1c ANALYZER

BASIC PARAMETERS

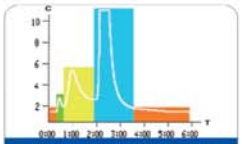
Temperature Control	50 °C ± 1 °C Auto shut-off.
Heating Mode	Thin-film heating.
Temperature - Control Mode	Pulse temperature control.
Thermometry Mode	Thermal resistance.
Operation Mode	Star/stop key.
Indication Mode	Red light (on).
Heating up Mode	About 8 mins, 5 mins for heating samples.

iQ-A1c Plus

Test Technology Ensuring Accurate Results

Accurate Principle and Methodology

Adopts classical and accurate principle of methodology (Ion-exchange) liquid chromatography, It is the gold standard of HbA1c analysis, and it is the only analysis method to really separate HbA1c directly by measuring the piecemeal absorbance through continuous on line testing; and obtain the correct area percentage with integration.


HbA1c 4-gradient elution

Accurate separation with 4-gradient elution

The novel 4-gradient elution for HbA1c can separate accurately glycated hemoglobin with 4-gradient elution of corresponding concentration reagent aiming at HbA1c instead of routine elution process produced by high and low concentration mixture.


High separating degree liquid chromatographic column

High Separation Liquid Chromatographic Column

High separation liquid chromatographic column made of imported resin with volume of 9mm x 45mm and weight of 2.5g which is 15-20 times better than general micro chromatographic column. High efficiency chromatographic column for 300 tests ensure the accuracy of test results.


415mn LED Integral Photometer

High Sensitivity 415nm LED Integral Photometer

High sensitivity 415nm LED integral photometer has the characteristics of correct wavelength, stable light source, full aluminum alloy structure, high anti-interference performance, multi-lens focusing, micro cuvettes and high sensitivity. It can accurately record analysis curve.


Supplied with original calibrator

Supply with Original Calibrator

An international standard value tracing is adopted and an authoritative reference material for quality control is used to produce the numeric value. Each set of reagent is supplied with two sets of calibrator for proper calibration so as to ensure that the test results are correct and reliable and thoroughly to avoid individual error caused by factor calibration.

Precision Chromatographic Column and Thermostatic Apparatus

Precision chromatographic column and reagent thermostatic control apparatus ensure that Chromatographic column and reagent are not affected by environment temperature and effectively guarantees the repeatability and accuracy of the test results.

Human Oriented Design, Convenience, Speed and Reliability

Real-time summarized chromatogram, intelligent process detection

The advanced embedded microprocessor system + intelligent control software can accurately display testing curve and the real time detection process. It can monitor alarm test results, absorbency, signal potential, peak time and reagent consumption.

Full-auto 25-position Sample Turntable, Optional Selection of Batch Test or Emergency Test

With full-auto 25-position sample turntable, it is unnecessary to use complicated rank sampling device and built-in hemolysis device. Batch test can be automatically carried out. Emergency test can be carried out at any time.

Full-open Structure, perfect flow path, low failure and easy maintenance

Full-open structure, Perfect solenoid valve flow path, it is unnecessary to use complicated sample mechanical 6-way and rotating distribution control valve. It is reliable for use and easy for maintenance.

10ul whole blood, three-step test, for both labs and clinics

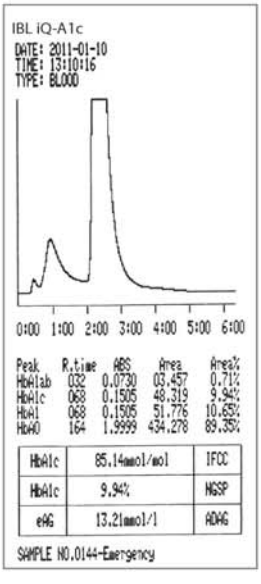
10ul whole blood, simple pretreatment, the whole blood sample can be tested on instrument after whole blood sample is added with hemolytic agent through three-step simple operation. Both venous blood and peripheral finger blood can be tested.

Bubble-removal Technology with Gas Solution

Since the instrument is equipped with reagent solvability and gas eliminating device, utilizing cuvette bubble auto detection and elimination technology, the air bubbles which affect the test results can be eliminated overall without complicated degassing devices.

Saccharification concentration, area percentage and average glucose can be synchronously reported

The instrument can output the data including IFCC concentration value, NGSP area percentage and ADAG average glucose on the test report synchronously to meet the requirement of world standardization. It may memorize 1000 test curve reports and is equipped with RS232 communication interface and can be connected directly to HIS/LIS system.


IBL iQ-A1c
DATE: 2011-01-10
TIME: 13:10:16
TYPE: BLOOD

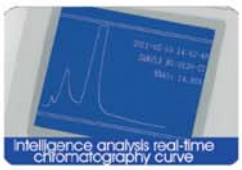
0:00 1:00 2:00 3:00 4:00 5:00 6:00

Peak	R.time	ABS	Area	Area%
HbAlab	032	0.0730	03.457	0.71%
HbAlc	068	0.1505	48.319	9.94%
HbAl	068	0.1505	51.776	10.65%
HbA0	164	1.9999	434.278	89.35%

HbAlc	85.14mmol/mol	IFCC
HbAlc	9.94%	NGSP
eAG	13.21mmol/l	ADAG

SAMPLE NO.0144-Emergency


Full-auto 25 positions sample turntable


Intelligence analysis real-time chromatography curve


First-step: adding hemolytic agent


Second-step: adding whole blood sample


Third-step: giving report after 4 minutes

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