Hb NEXT

Fully automated HPLC haemoglobin analyser

One analyser
Two analysis modes
Three working methods

A.MENARINI diagnostics

www.menarinidiagnostics.com

Hb NEXT

ONE ANALYSER

With over **35 years of experience** in **haemoglobin analysis**, **A.Menarini Diagnostics** is directly involved in the improvement of HPLC technology. Drawing on years of daily customer contact and support, Hb NEXT is the response to a need for greater **flexibility, productivity** and **reliability**.

Hb NEXT is a fully automated HPLC haemoglobin analyser designed to deliver precise and accurate quantification of HbA1c, HbA2, HbF and major haemoglobin variants.

FULL TRACEABILITY, FLEXIBILITY AND AUTOMATION

- Sample type automatically recognised with only 2 rack versions: whole blood/ pre-haemolysed; anaemic samples
- Automatic sample identification by tube rotation and barcode scanning
- Sample mixing by sample tube inversion
- Semi-automatic preparation of calibrators, controls and pre-haemolysed samples
- Identification and traceability of reagents through QR code reading
- Results are traceable to the IFCC reference method and reported in both IFCC (mmol/mol) and NGSP (%) units

USER FRIENDLY WITH EXTENDED AUTONOMY

- Possibility to load reagents in duplicate with automatic switch and management
- Full compatibility between different lots of eluents and column
- No need to change column or reagents when switching between modes
- Closed tube sampling for maximum safety to the operator
- Minimised operator intervention without daily maintenance
- High column lifetime with at least 6000 tests
- Loader capacity for 50 or 110 sample tubes

Hb NEXT

TWO MODES **OF ANALYSIS**

Using the same column and all reagent containers installed, the operator can switch between modes of analysis according to need.

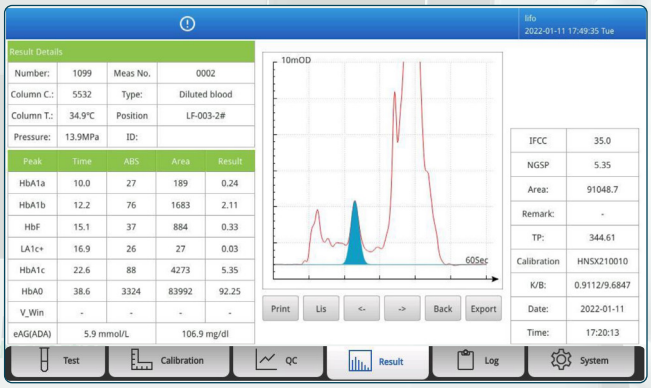
DIABETES

Diabetes has become a global epidemic worldwide increasing the need for haemoglobin A1c (HbA1c) assessment for diagnosis and long-term monitoring of glycemic control.

Variant Mode for HbA1c assessment

Hb NEXT meets the increasing demand for HbA1c testing delivering precise and accurate HbA1c values, even in the presence of the main haemoglobin variants.

In **60 seconds Hb NEXT** quantifies HbA1c and flags samples with suspected haemoglobinopathy.



Example of normal sample chromatogram - Variant Mode

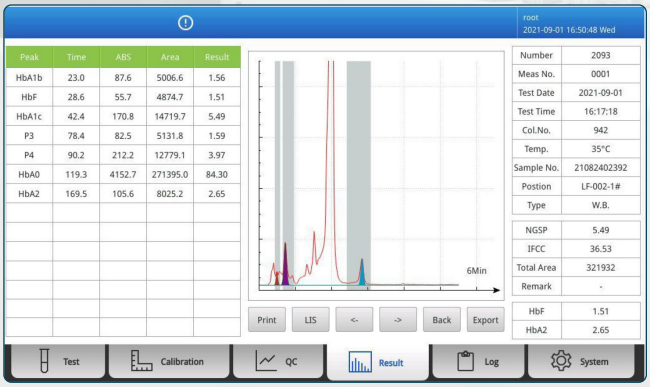
HAEMOGLOBINOPATHIES

Haemoglobin disorders also have a growing impact on public health and their timely and accurate diagnosis is important to inform optimal management in affected individuals and to offer genetic counselling and reproductive options in carriers.

Thalassaemia Mode for HbA1c, HbF, and HbA2

In this mode, **Hb NEXT** provides quantitative HbA1c, HbF and HbA2 results and separates **HbE, HbD, HbS and HbC** variants.

The system produces a detailed analysis of each Hb fraction in **380 seconds** meeting the NHS antenatal screening requirements.



Example of normal sample chromatogram - Thalassaemia Mode

Hb NEXT

THREE WORKING **METHODS**

Variant Mode

Working with Hb NEXT only in Variant Mode, your laboratory has a fast and high throughput system for HbA1c measurement.

Hb NEXT TOTAL FLEXIBILITY

Variant and Thalassaemia Mode

With all components and reagents on board, the system has both analysis modes available according to need. Hb NEXT makes switching between modes easy and totally flexible.

Thalassaemia Mode

The Thalassaemia Mode is ideal if your lab needs to screen for haemoglobinopathies in all samples and simultaneously measure the HbA1c level.

All the features of the Hb NEXT help maximise the efficiency of your lab, adapt to demand and deliver the swift accurate results your clinicians need.

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Technical specifications

Intended use	Quantification of HbA1c , HbA2, HbF and characterisation of Hb variants
Samples	Human whole venous blood and pre-haemolysed samples
Measurement principle	HPLC - Reversed-phase cation exchange
Measurement unit	Peak calibration and result calculated in SI units (mmol/mol) - Conversion to NGSP % value via IFCC master equation
Measurement resolution	0.01 mmol/mol | 0.01%
Quantitative range	HbA1c: 9-195 mmol/mol, 3-20% | HbF: 0-100% | HbA2: 0-8% | Hb variants: 0-100%
Processing speed	Variant mode: 60 seconds per sample | Thalassaemia mode: 380 seconds per sample
Warm-up time	< 10 minutes
Minimum sample volume	1 mL – standard whole blood containers | 300 µL – pre-diluted EP tubes
Sample consumption (whole blood)	Variant mode: 5 µL | Thalassaemia mode: 7 µL
Sample container	Whole blood sample tube: (12-15 mm diameter) × (75-100 mm height) With mixing function active: (12.3-13.2 mm diameter) × (75-85 mm height)
Column lifetime	At least 6000 tests
Sample identification	Internal barcode reader
Sampler capacity	50 sample loader: 50 samples + STAT | 110 sample loader: 110 samples + STAT
Display and printer	10.1" TFT color LCD screen and thermal printer
Power supply and consumption	AC 100V~240V, 50-60 Hz, 250 VA
Dimensions and weight	66 kg and 722 x 730 x 729 mm (L x W x H) – 50 sampler loader 73 Kg and 722 x 873 x 729 mm (L x W x H) – 110 sampler loader
System operating environment	Temperature: 10-30 °C; humidity: 20-80% R.H. (no condensation)
Connectivity	LIS: RS-232, RJ45 Ethernet, bidirectional protocol

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56750

For professional users only

List of products and codes

55607	Hb NEXT Analyser - 50 sample loader	1 pcs
55943	Hb NEXT Analyser - 110 sample loader	1 pcs
55599	Hb NEXT Eluent A	1 x 800 ml
55600	Hb NEXT Eluent B	1 x 800 ml
55601	Hb NEXT Eluent C	1 x 800 ml
55602	Hb NEXT Eluent D	1 x 800 ml
55603	Hb NEXT Haemolysis solution H	1 x 2500 ml
55604	Hb NEXT Column	1 pcs
55605	Hb NEXT HbA1c Control	2 x 0.1 ml
55606	Hb NEXT HbA1c Calibrator	2 x 0.1 ml
56149	ß-THALASSAEMIA & HbA1c Calibrator	2 x 0.1 ml
56150	ß-THALASSAEMIA & HbA1c Control Material	2 x 0.1 ml

Hb NEXT is available in the following
A.Menarini Diagnostics countries:

Austria: https://www.menarinidiagnostics.at
Benelux: https://www.menarinidiagnostics.be
France: https://www.menarinidiagnostics.fr
Greece: https://www.menarinidiagnostics.gr
Italy: https://www.menarinidiagnostics.it
Nordics: https://www.menarinidiagnostics.se
Portugal: https://www.menarinidiag.pt
Spain: https://www.menarinidiag.es
UK: https://www.menarinidiag.co.uk

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