

Hb NEXT

Fully automated HPLC hemoglobin analyzer



One analyzer
Two analysis modes
Three working methods

Hb NEXT

ONE ANALYZER

With over **35 years experience** in **hemoglobin 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 hemoglobin analyzer designed to deliver precise and accurate quantification of HbA1c, HbA2, HbF and major hemoglobin variants.

FULL TRACEABILITY, FLEXIBILITY AND AUTOMATION

- Sample type automatically recognized with only 2 rack versions: whole blood/pre-hemolysed; anemic samples
- Automatic sample identification by tube rotation and barcode scanning
- Sample stirring by sample tube inversion
- Semi-automatic preparation of calibrators, controls and pre-hemolysed 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 and reagents when switching between modes
- Closed tube sampling for maximum safety to the operator
- Minimized 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.

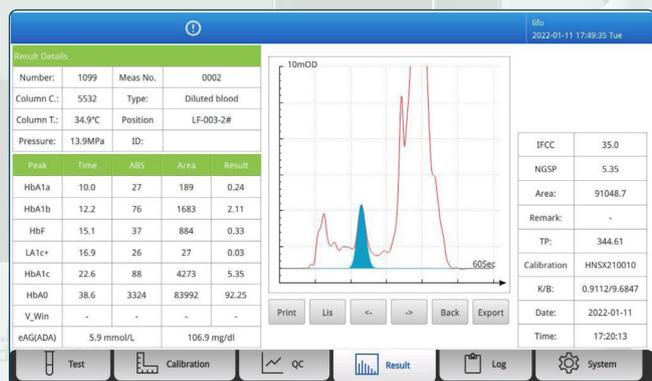
DIABETES

Diabetes has become a global epidemic worldwide increasing the need for hemoglobin 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 hemoglobin variants.

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



Example of normal sample chromatogram - Variant Mode

HEMOGLOBINOPATHIES

Hemoglobin 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 counseling and reproductive options in carriers.

Thalassemia 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.

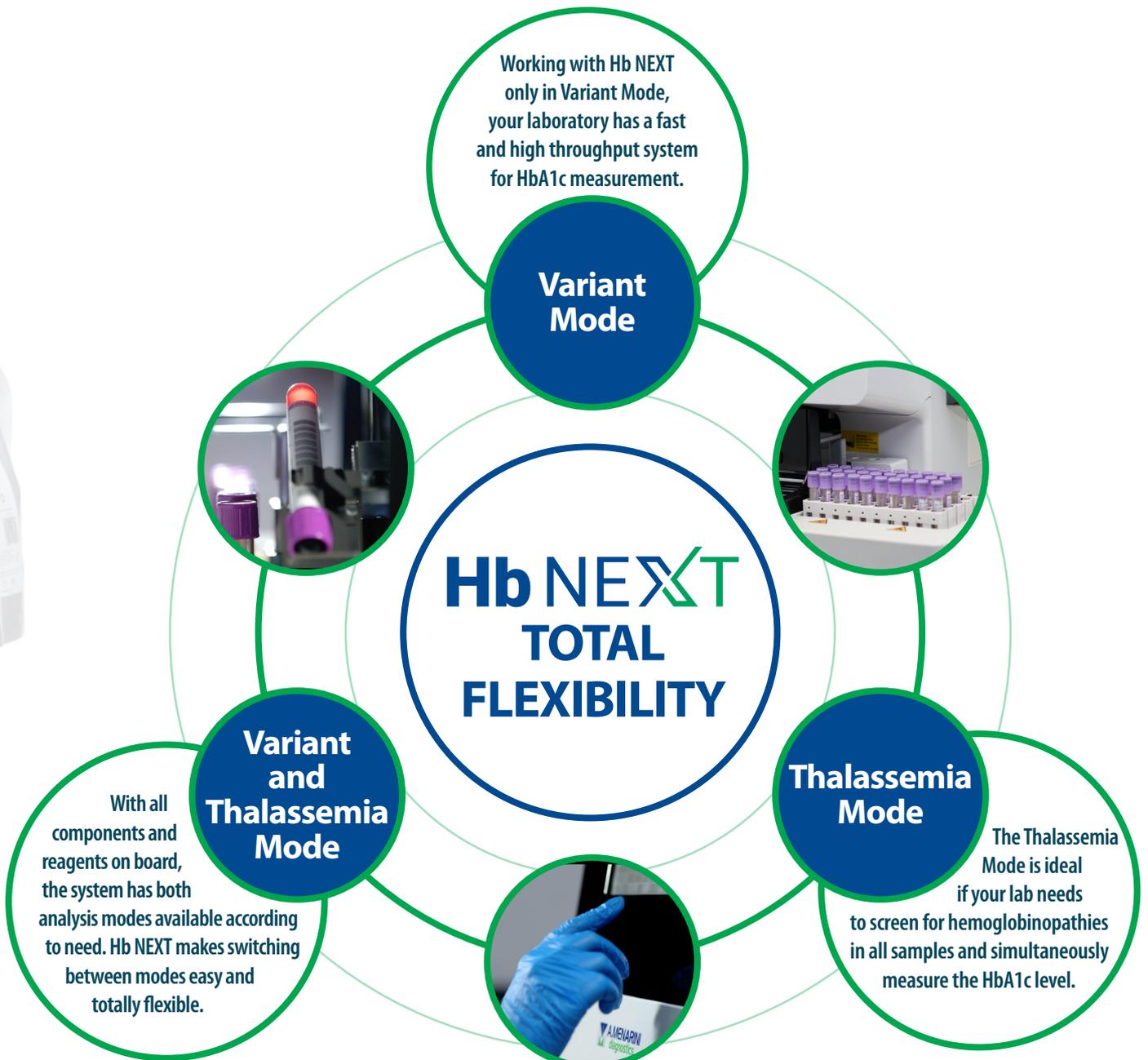
The system produces a detailed analysis of each Hb fraction in **380 seconds**.



Example of normal sample chromatogram - Thalassemia Mode

Hb NEXT

THREE WORKING METHODS



All the features of the **Hb NEXT** help maximize 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 characterization of Hb variants
Samples	Human whole venous blood and pre-hemolysed 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 Thalassemia 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 Thalassemia 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 722x730x729 mm (LxWxH) – 50 sampler loader 73 Kg and 722x873x729 mm (LxWxH) – 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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List of products and codes

55607	Hb NEXT Analyzer - 50 sample loader	1 pcs
55943	Hb NEXT Analyzer - 110 sample loader	1 pcs
55599	Hb NEXT Eluent A	1x800 mL
55600	Hb NEXT Eluent B	1x800 mL
55601	Hb NEXT Eluent C	1x800 mL
55602	Hb NEXT Eluent D	1x800 mL
55603	Hb NEXT Haemolysis solution H	1x2500 mL
55604	Hb NEXT Column	1 pcs
55605	Hb NEXT HbA1c Control	2x0,1 mL
55606	Hb NEXT HbA1c Calibrator	2x0,1 mL
56149	β-THALASSAEMIA & HbA1c Calibrator	2x0,1 mL
56150	β-THALASSAEMIA & HbA1c Control Material	2x0,1 mL

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

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