Coral | Clinical Systems

VARITYPE-Hb

An Automatic HPLC HbA1c Instrument

Technical Specification

Methodology	Ion-Exchange - High Performance Liquid Chromatography (HPLC)
Test Mode	Fast Mode, Variant Mode
Result Range	3 - 18 %
Test Speed	Fast Mode: 90 Seconds/ Test Variant Mode: 150 Seconds/ Test
Sample type	Whole Blood & Prediluted Blood
Sample Volume	5µL Whole Blood 500µL Prediluted Blood
Precision	CV < 2%
Autoloader Sample Station	20 Tubes
Photometer Wavelength	420nm + 600nm
Column Capacity	6000 Tests
Filter	1200 Tests
Display	10 Inches LCD touch screen
Storage	5000 Sample Results
Operational Temperature	Temperature: 10-30, Humidity: ≤80%
Power	AC, 100-240V, 50/60Hz, 300VA
Dimension	378mm×380mm×510mm
Weight	28 Kgs

For further details contact:

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A Division of

TULIP DIAGNOSTICS (P) LTD.

Tulip Block, Dr. Antonio Do Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403202, INDIA.
Tel : +91 832 2458546-50 **Fax** : +91 832 2458544
Email : coral.ho@tulipgroup.com **Website** : www.coralclinicalsystems.com

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Next-Gen HbA1c Analysis by HPLC

Precision Engineered HPLC System for HbA1c – VARITYPE-Hb

VARITYPE-Hb delivers high-resolution separation and precise quantification of HbA1c, empowering clinicians and researchers with reliable tools for long-term glycemic assessment. Based on ion-exchange High-Performance Liquid Chromatography (HPLC), the gold standard for HbA1c testing, the system ensures robust performance with minimal interference from hemoglobin variants.

- **Specialised Cation-Exchange Column:**
  Utilises VARITYPE-Hb technology to separate hemoglobin variants based on ionic affinities.
- **Optimised Buffer Gradient:**
  Ensures precise elution of each hemoglobin component at distinct retention times.
- **Accurate HbA1c Quantification:**
  Delivers reliable results even in the presence of hemoglobinopathies or variants.
- **Clear Variant Identification:**
  Enables detection and differentiation of abnormal hemoglobin types.

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Why HPLC is the Gold Standard for HbA1c Testing
HPLC is widely regarded as the **gold standard** for HbA1c measurement due to its unmatched **accuracy, reliability, and clinical relevance.** Here's why HPLC stands apart:

Superior Detection of Hemoglobin Variants
HPLC doesn't just quantify HbA1c—it **separates and identifies different hemoglobin fractions.** This allows it to detect common genetic variants such as HbS, HbC, or labile intermediates that may otherwise go unnoticed.

RESULT AND INTERPRETATION

- Gold Satandard Methodology - Ion exchange HPLC technology NGSP and IFCC Certified.
- Autoloader for 20 sample tubes with cap piercing and barcode scanner for sample tube identification.
- RRM: Real-time reagent inventory monitoring function.
- 10" Large LCD touch screen for a user-friendly interface.
- Dual Wavelength Detection - To Avoid Interference.
- Reliable results with easy automatic smart calibration and quality control checks.
- Specially designed QC and Calibration program: Ensuring reliability
- Specially designed carousel- True random access.

Fast Mode



Variant Mode

