

More to Life



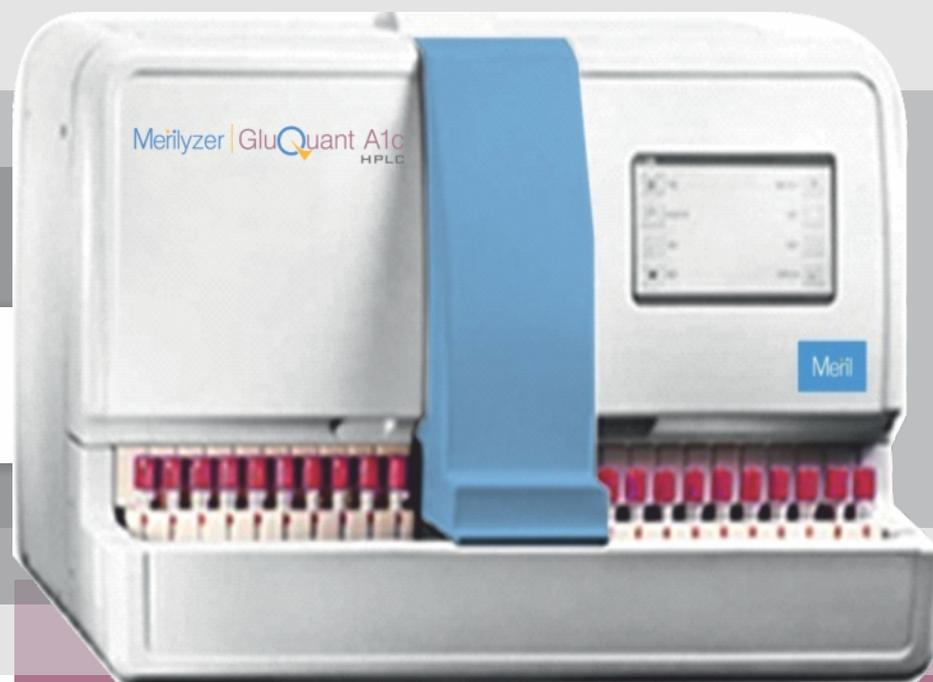
Where research becomes the basis of discovering newer ways of alleviating human suffering and empowering an individual with good health.

Meril

Diagnostics



Merilyzer | GluQuant A1c™
HPLC



Meril Diagnostics

Emerging from a lineage of successful business enterprise, Meril Diagnostics is an in-vitro diagnostic arm of the multi million dollar MNC group .

Meril Diagnostic's core objective is to design, manufacture and distribute, clinically relevant, state of the art and best in class analyzers and reagents to alleviate human suffering and improve Quality of Life.



Corporate Office

Meril's corporate office sits proud ensconced within the serene hill sides of Chala town; located 150 kms north of Mumbai at Vapi

Meril Park

300,000 sq feet state of the art manufacturing, research and development facility located at Vapi for Diagnostics, Orthopaedics, Endo-surgery equipments and Cardiovascular, comprising a team of designers, engineers, chemists, microbiologists and R&D scientists.



Meril Training Academy

While innovations and advancements play a vital role in contributing towards better health of the society, a larger role also lies in educating and imparting training to pathologists, clinicians, technicians and other members of the medical fraternity.

Meril's Training Academy is a world class, first of its kind institution that offers both practicing professionals and students hands on training and knowledge.

Modernistic, contemporary academy with Hands on Trainings, Simulators, Live Case Learning, Distance learning, Hard-ware play rooms, Libraries, Cadaver and Animal models.

Merilyzer | GluQuant A1c™
HPLC

Automated HbA1c Analyzer

- Method: Ion Exchange High Performance Liquid Chromatography
- Automatic sample entry, on board capacity of 50 samples with continuous loading
- Barcode reader
- Whole blood mode (10 μ l) / diluted mode (150 μ l)
- Sample auto mixing
- Sample cycle: \leq 150 seconds / test
- High precision, CV \leq 2%
- Touch Screen
- Pressure, temperature and test quantity display
- Direct primary tube sampling / cap-piercing
- Pressure and temperature alarm
- LIS data transmission
- Thermal printer



Innovative Features

GluQuant A1c HPLC is a benchtop fully automated HbA1c analyzer based on Ion Exchange High Performance Liquid Chromatography principle. Haemoglobin A1c (HbA1c) is a very useful test in monitoring and diagnosing diabetic patients. It is a measurement of the mean amount of blood glucose present in the patient over the previous 3 months and is therefore useful as a monitoring and diagnostic tool.

Principle

GluQuant A1c HPLC uses the established international reference method of Ion Exchange High Performance Liquid Chromatography.

HPLC is recommended principle by WHO, recognized as “Gold Standard” as it has high sensitivity and stable performance.

- Eliminate unstable and variant HbA1c interferences
- HbA1c (NGSP and IFCC), HbF, eAG can also be tested at same time

It uses micro columns and reagents to separate the HbA1c from the non-glycated fraction.

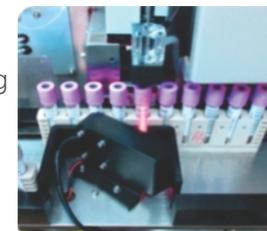
The analyzer uses ion exchange chromatography in conjunction with gradient elution to separate human haemoglobin subtypes and variants from haemolysed whole blood. The separated haemoglobin fractions are monitored by means of absorption of light and the chromatogram obtained is recorded and stored by the internal memory. A software programme in the instrument performs the analysis of the chromatogram and generates a results report.

NGSP HbA1c (%)	IFCC HbA1c (mmol / mol)	eAG (mg/dL)
5.0	31	97
6.0	42	126
7.0	53	154
8.0	64	183
9.0	75	212
10.0	86	240
11.0	97	269
12.0	108	298

- High Pressure plunger Pump (Micro-pump) to provide a hydrodynamic force, without the influence of any resistance, from the rest of the entire chromatographic system that ensure to provide a constant velocity
- 24 AD high precision detector allows to detect the sample absorbance with a high precision and high resolution

Simple Operation

- No sample pre-treatment
- Touch Screen
- Pressure, temperature, test quantity display
- Direct primary tube sampling with cap-piercing
- Pressure, temperature alarm
- Barcode reader
- LIS data transmission
- Thermal printer



Uncompromising Performance

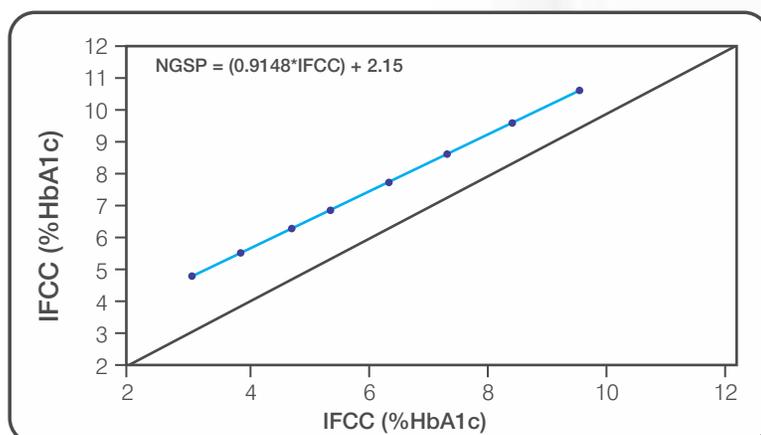
- Method: Ion Exchange High Performance Liquid Chromatography
- Automatic sample entry, on board capacity of 50 samples
- Automatic sample identification
- Whole blood mode (150µl) / diluted mode (10µl)
- Auto mixing
- Sample cycle: ≤ 150 secs / test
- High precision, CV ≤ 2 %



Technical Specifications

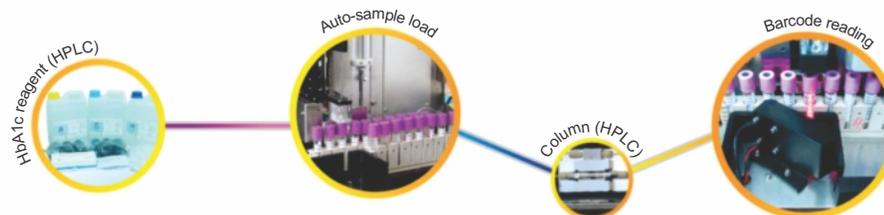
Inter-Run	Sample 1	Sample 2	CV = 2.0%
Number	10	10	
Mean(%)	5.4	10.0	
SD	0.08	0.13	
CV	1.5%	1.3%	

Within-Run	Sample 1	Sample 2	CV = 2.0%
Number	10	10	
Mean(%)	5.3	9.9	
SD	0.07	0.12	
CV	1.3%	1.2%	



Technical Specifications

Principle	Ion Exchange High Performance Liquid Chromatography
Throughput	Sample cycle \leq 150 secs / test
Sample	Sample type: Whole blood mode (10 μ l) / diluted mode (150 μ l)
Testing	Automatic sample entry: On board capacity 50 samples, continuous loading Wavelength: 415 nm Measuring range (NGSP): HbA1c 4 - 17%, $r \geq$ 0.99 Carried contaminating rate: \leq 0.1% Precision: CV \leq 2.0%
Operating condition	Temperature: 15°C - 30°C Humidity: 10 - 80%
Power requirement	Voltage: 220 / 240V Frequency: 50 - 60 Hz Power: < 100VA
Dimensions	500 mm (W) X 610 mm (L) X 410 mm (H)
Net weight	Approx 28 Kgs



Meriline | GluQuant A1c™ HPLC



CODE	REAGENTS	SIZE
HPLDBT - 01	HbA1c Kit (HPLC) - Reagent A, Reagent B, Haemolyzer, Column, Filter	800 Tests
HPLCAL - 01	Calibrator (2 Level)	2 x 0.25 ml
HPLCTR - 01	Control (2 Level)	2 x 0.5 ml



More to Life

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