

SPECIFICATIONS

Model	Mispa Maestro
Principle	Ion-Exchange HPLC
Detector Specifications	Dual Wavelength (415nm and 525nm)
Test Items	HbA1c (s-A1c), HbF
Hb Variant Mapping	Common Abnormal Hb Variants HbE, HbD, HbS, HbC, etc
Sample Volume	Blood collection tube: ≥1mL, Sample cup: ≥0.5mL
Aspiration Volume	5µL whole blood
Maximum Loading Capacity	Up to 110 samples* at a time; continuous loading
Analysis Mode	Whole blood mode, Pre-dilution
Testing Time	72 seconds per test
Precision	CV ≤ 1%
Detection Range (HbA1c)	3% - 20%
Result Unit	NGSP (%), IFCC (mmol/mol)
Working Condition	Temperature: 10°C - 40°C Humidity: 10% - 85%
Data Storage	20,000 analysis data with chromatogram 2,000 QC data with chromatogram 100 calibration data
Power Source	AC: 100-240V, tolerance ±10% Frequency: 50Hz / 60Hz, tolerance ± 3Hz Input power: 200VA
Dimensions	540mm(L) x 550mm(W) x 570mm(H)
Weight	45 kg
Storage and Transport Condition	Temperature: 10°C to 40°C, Calibrators and Controls: 2°C - 8°C Humidity: 10% to 90% Atmospheric Pressure: 70 to 106 kpa



EN ISO 13485:2016

Toll Free No: 1800 425 7151

AGAPPE DIAGNOSTICS LTD.

“Agappe Hills”, Pattimattom (PO), Dist. Ernakulam, Kerala - 683 562, India.
TEL: + 91 484 2867000 | productcorp@agappe.in | www.agappe.com



AUTOMATED
GLYCOHEMOGLOBIN
ANALYZER



Maestro



CHOOSE INNOVATION. CHOOSE TRUST. CHOOSE MAESTRO.

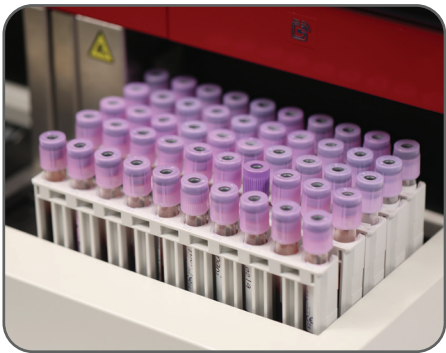
Mispa Maestro
Automated Glycohemoglobin Analyzer

YOUR BEST PARTNER IN DIAGNOSTICS

ADL/Mispa Maestro/R04-08/26 Company reserves the right to change any design and technical features of the product at any time, If needed.

Excellent Performance and Flexible Sample Loading

- **Rapid and Efficient:** Delivering Gold-Standard IE-HPLC results in just **72 seconds** without compromising on Variant detection
- **High Throughput:** 47 Tests in first hour
- **Continuous loading** Up to 110* samples in one go, maximizing walkaway time and reduces manual intervention
- **Emergency Sample Processing (STAT)** available
- **Positive sample ID detection** (In-built Barcode Scanner)



Convenient Operation

- All in one Kit (Column, calibrator and reagents included in the kit)
- User friendly 10 inch touchscreen interface
- Automated sample mixing ensuring uniform treatment for all samples
- **Automated Pre-dilution of anemic samples** reducing pre-analytical errors
- Automated dispensing of Hemolysate for pre-dilution
- Calibration details provided in each report for easy verification



Intelligent Management

- RFID labelled reagents, column and filter avoids errors
- Reagent inventory warnings helps optimal usage of reagents
- Intuitive Multi-color Chromatograms: Enhancing clarity through intelligent fraction mapping
- LIS connectivity. Reports exported as PDF with Graph
- QC software onboard with LJ Chart
- **40+ Error flaggings with AI based verification**



Confident Reporting

- **Comprehensive Variant Mapping:** Superior resolution of HbS, HbC, HbD, and HbE
- **High HbF tolerance upto 30%**
- Sample degradation detected and flagged
- Column efficiency and pressure monitoring values provided for each sample report
- **Dual wavelength detector** reduces interference from icteric and lipemic samples



CV≤1%

Uncompromising Accuracy. Flawless Precision

Superior intra- and inter-assay repeatability you can trust every single time
Powered by cutting-edge Ion-Exchange HPLC methodology

Intra-assay Repeatability (n=20) HbA1c (% NGSP)

	Low	Middle	High
MEAN	5.26	7.88	10.10
S.D.	0.03	0.05	0.06
C.V.%	0.6%	0.7%	0.6%

Inter-assay Repeatability (n=20) HbA1c (% NGSP)

	Low	Middle	High
MEAN	5.25	7.89	10.11
S.D.	0.03	0.06	0.07
C.V.%	0.7%	0.8%	0.7%

aiCPT
(All-Inclusive CPT)

No More Hidden Charges

Don't Let Controls & Calibrators Reduce Your Test Count
More Reportable Tests. More Value From Every Pack

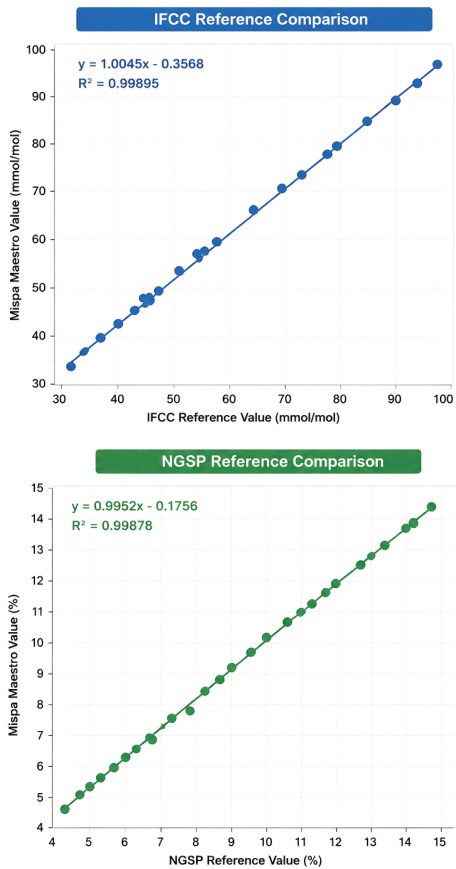
Anti-interference

Dual wavelength detector for reduced interference.

No interference from HbF upto 30%

Variant detection and labeling - HbE, HbD, HbS, HbC, etc

Exceptional Correlation with IFCC & NGSP Reference Standards



IFCC
International Federation of Clinical Chemistry and Laboratory Medicine

Certificate

Agappe Diagnostics Ltd
using
Ion Exchange HPLC on Mispa Maestro

participated in the IFCC HbA1c Certification Programme to demonstrate traceability to the IFCC Reference Measurement Procedure and performed as shown below.

Total Error = 1.1 mmol/mol
Bias = -0.1 mmol/mol
Imprecision = 1.0 %
Grade = Gold

Date of Certification : 01 June 2026 Date of Expiry : 01 January 2027

IFCC Network Coordinator
C. Siebelder

SAMPLE SPECIMEN

Test Report

Serial No.: 13
Sample Position: R1_#1
Sample ID: 1203260094
Test Time: 12/03/2026 15:30
CAL: $Y = 1.3678x + 0.7088$ (NGSP)
SN: EHP25810001
Operator: USER 3
Reviewer:

HbA1c: 5.75% (NGSP)
39.34 mmol/mol (IFCC)
HbF: 0.44%
eAG: 6.55 mmol/L
117.94 mg/dL

Component	Time(s)	Area	%
A1a	9.90	3.10	0.30
A1b	11.20	7.34	0.72
HbF	14.60	4.47	0.44
LA1c	16.45	15.58	1.52
A1c	23.20	31.56	5.75
A0	39.05	670.57	65.63
V-Win		231.13	12.62
Total		1021.76	
HbC suspected			

HbC suspected

*Under test conditions