

SPECIFICATIONS

Model	Mispa Maestro
Principle	Ion-Exchange HPLC
Detector Specifications	Dual Wavelength (415nm and 525nm)
Test Items	HbA1c (s-A1c), HbF
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



SCAN ME

EN ISO 13485:2016 CE

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AUTOMATED
GLYCOHEMOGLOBIN
ANALYZER

Maestro



CHOOSE INNOVATION. CHOOSE TRUST. CHOOSE MAESTRO.

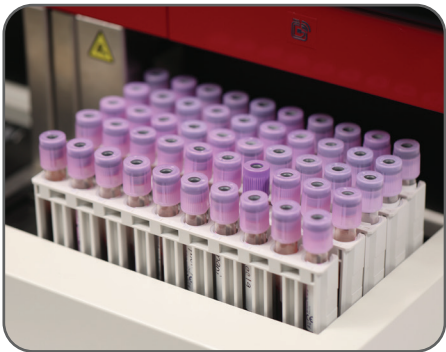
Mispa Maestro
Automated Glycohemoglobin Analyzer

YOUR BEST PARTNER IN DIAGNOSTICS

ADL/Mispa Maestro/R03-03/26 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 filter reduces interference from icteric and lipemic samples



Great Accuracy and Excellent Precision

Gold standard: Ion-Exchange HPLC methodology

Good intra-assay and inter-assay repeatability

CV≤1%

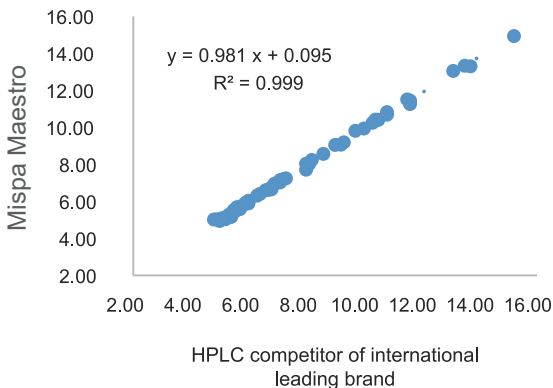
Intra-assay repeatability
(n=20) HbA1c (% , NGSP)

	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%

Performance Comparison



Anti-interference

Dual wavelength detector for reduced interference.

No interference from HbF upto 30%

Variant labeling - detecting HbS, HbE, HbC and HbD

Integrated NGSP and IFCC Results



Test Report

Serial No.: 15
Sample Position: R2_#3
Sample ID: 15
Test Time: 30/12/2025 14:44
CAL: Y=1.3591x+0.6907 (NGSP)
SN:EHP24510010
Operator: USER 3
Reviewer:

HbA1c:4.73% (NGSP)
28.20 mmol/mol (IFCC)
HbF:0.48%
eAG:4.93 mmol/L
88.75 mg/dL

Component	Time(s)	Area	%
A1a	10.55	5.77	0.41
A1b	12.10	8.87	0.63
HbF	17.10	6.77	0.48
LA1c	19.25	12.63	0.89
A1c	26.80	25.09	4.73
A0	39.85	681.94	48.18
V-Win		574.16	30.57
Total		1415.41	

HbS suspected

*T&C apply