

Specifications

Principle	Ion-exchange High Performance Liquid Chromatography (HPLC)
Sample Handler	Auto-switching between Diluted and Whole Blood Samples Sample Barcode Auto-reading Cap Piercing Auto-mixing 1 STAT Position
Throughput	70s/test Normal Mode 110s/test Variant Mode
Sample Aspiration Volume	4μL Whole Blood
Loading Capacity	100 Samples
Measuring Range (NGSP)	4%-17%
Precision	CV≤2%
Detection Mode	Dual Wavelengths
Result Output	Built-in Terminal printer / LIS / USB
Data Storage	100,000 Results with chromatogram
Working Environment	10°C-35°C, Humidity ≤ 70% , Self-adaptive Altitude
Power Supply	110-240VAC, 50-60Hz Frequency
Dimension/Weight	540*540*540mm, 40.3kg

Consumables

- Calibrator (2 levels): 1 test/kit
- Control (2 levels): 4 mL/kit, 0.5 mL/kit
- Storage: 24 months at 2-8°C



All in one Reagent Package

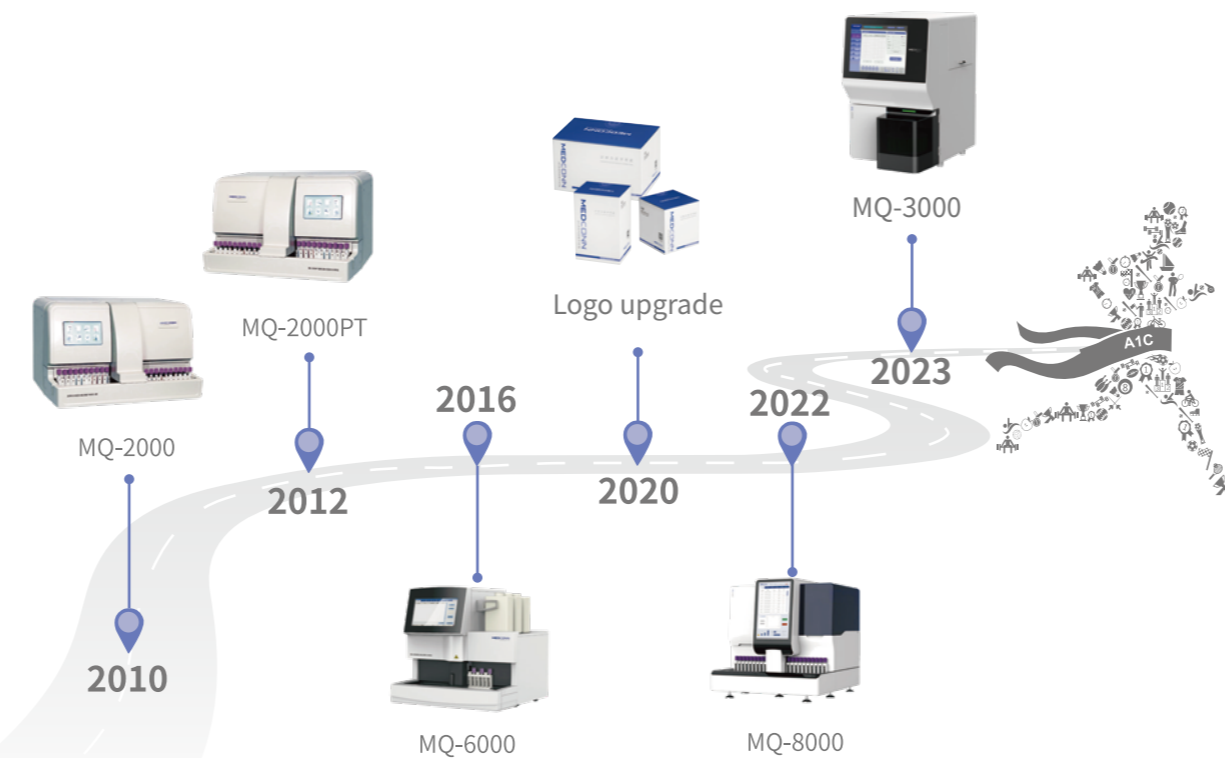
- Column
- Terminal Printer paper
- Filter
- 3000/6000 tests Reagent kit:
4 months open bottle stability at 4-30°C
24 months shelf life at 4-30°C



Company Profile



Medconn specializes in HbA1c HPLC products, providing professional products and service to the world.



Medconn was founded in 1992, focusing on R&D, manufacturing, sales and service of in vitro diagnostic (IVD) products. Medconn Diagnostics is headquartered in Shanghai, China. Its business covers all provinces in China and some regions in Global, and its products cover HbA1c, Clinical Chemistry, Immunoassay, POCT, etc.

MEDCONN
DIAGNOSTICS

Medconn Diagnostics

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MQ-6000(HPLC) Glycated Hemoglobin (HbA1c) Analyzer

Easy-operation | Precise | High-quality



DIAGNOSTICS FOR MEDICAL CONNECTION

MEDCONN
DIAGNOSTICS

Easy Operation with High Efficiency

Automatic Identification of Sample Type

- Whole blood: 4μL
- Loading 100 samples at a time, can be continuous loading

Automatic Barcode Reader and Puncture

- Automatic scan barcode
- Puncture capped tubes

Automatic Mixing

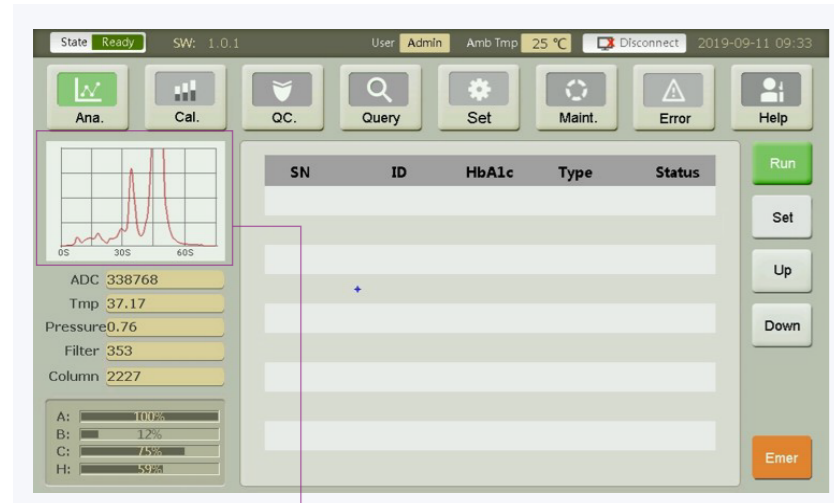
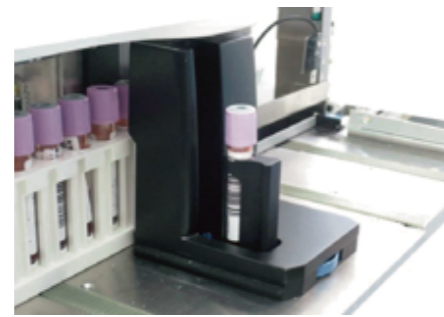
- Automatically mix the sample
- Prevent sample layering

STAT Position

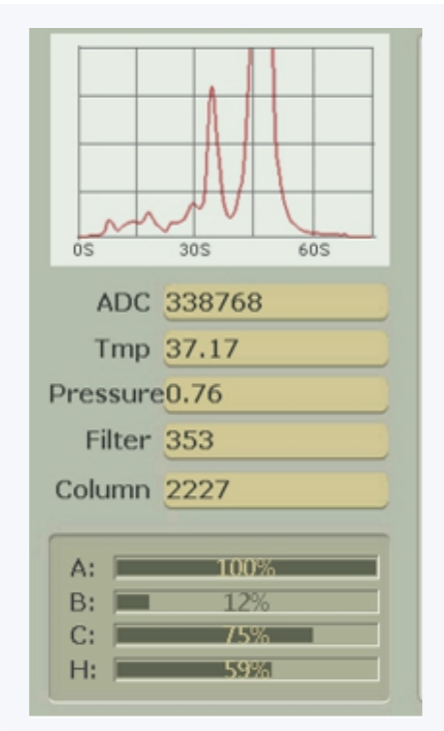
- 1 STAT Position allows high priority sample to be inserted at any time

One Reagent Two Test Modes

- No additional reagents are required to switch variant test modes
- Hb-Varian Detection: HbD, HbS, HbC, HbE, HbQ-Tailand, HbG-Coushat-ta, HbG-Taipei etc.



Displayed Parameters



High Standards for Quality Results

Global Standard

- The MQ-6000 glycated hemoglobin analyzer uses gold-standard, high performance liquid chromatography (HPLC) to deliver precise HbA1c values in the presence of hemoglobin variants and other interfering substances



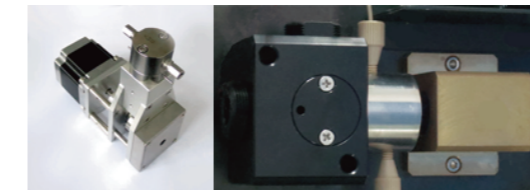
IFCC Traceable Results

- Calibrator values are assigned with the IFCC-RMP
- Lyophilized calibrators and quality control materials allow for long shelf life and easy transportation



Technology Assurance

- Self-developed high-pressure plunger pump (Micro-pump) ensure a constant liquid velocity that gives high precision result
- 24 bits AD high-precision detector can detect sample absorbance with high resolution and accuracy



Outstanding Analytical Performance

Within-bath precision < 0.9%

Tests	Sample 1 (%)	Sample 2 (%)	Sample 3 (%)
1	7.1	5.7	13.7
2	7.0	5.7	13.6
3	7.0	5.7	13.6
4	7.0	5.6	13.5
5	6.9	5.7	13.5
6	7.0	5.7	13.6
7	7.0	5.7	13.6
8	6.9	5.6	13.6
9	6.9	5.7	13.6
10	6.9	5.6	13.6
11	6.9	5.6	13.4
12	7.0	5.6	13.4
13	7.0	5.7	13.5
14	7.0	5.7	13.5
15	7.0	5.6	13.5
16	7.0	5.6	13.6
17	7.0	5.7	13.6
18	7.0	5.7	13.5
19	7.0	5.6	13.5
20	7.0	5.7	13.4

	Sample 1 (%)	Sample 2 (%)	Sample 3 (%)
Mean Value	6.97	5.66	13.53
SD	0.05	0.05	0.07
CV	0.63%	0.87%	0.54%

Between bathes precision < 1%

	Low	High		Low	High		
Day 1	1	6.6	9.5	Day 6	11	6.7	9.4
	2	6.5	9.4		12	6.6	9.4
Day 2	3	6.6	9.5	Day 7	13	6.6	9.5
	4	6.6	9.5		14	6.7	9.5
Day 3	5	6.6	9.4	Day 8	15	6.6	9.5
	6	6.6	9.4		16	6.5	9.4
Day 4	7	6.6	9.5	Day 9	17	6.5	9.4
	8	6.6	9.4		18	6.5	9.3
Day 5	9	6.5	9.4	Day 10	19	6.5	9.4
	10	6.5	9.4		20	6.5	9.4

	Sample 1 (%)	Sample 2 (%)
Mean Value	6.58	9.43
SD	0.06	0.05
CV	0.97%	0.58%

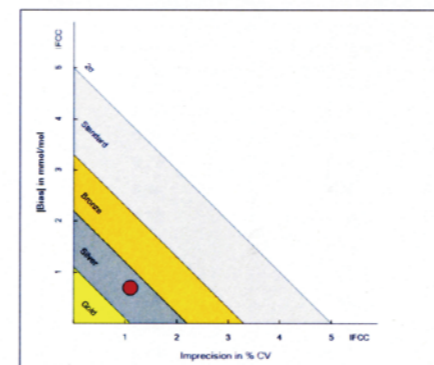
Data from one leading hospital in China

Certificates

Shanghai Medconn Medical Technology Co.,Ltd.

using
MQ-6000

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



Criteria derived from the IFCC model for Quality Targets HbA1c (Clin Chem 2015;61: 752-56)

