

# MQ-2000PT(HPLC) Glycated Hemoglobin Analyzer

PRECISE | ACCURATE | CONVENIENT



DIAGNOSTICS FOR MEDICAL CONNECTION

**MEDCONN**  
DIAGNOSTICS

# Specifications

Sample Handler	Diluted and Whole Blood Sample Auto-switching Sample Barcode Auto-reading Cap Piercing Auto-mixing
Time for Analysis	≤150s
Sample Aspiration Volume	Whole Blood 10ul
Loading Capacity	50 Samples
Measuring Range (NGSP)	4%-17%
Precision	CV≤2%
Data Storage	20,000 Results with Graph
Result Output	Screen Lis System Internal Terminal printer
Operation Environment	15°C-35°C Humidity ≤ 80% Self-adaptive Altitude
Power Requirement	88-132VAC/176-264VAC 50-60 Hz Frequency
Dimension	610mm*500mm*410 (L*W*H) Weight: 29kg



# IFCC Traceable Results

Calibrator values are assigned with the IFCC-RMP

- Sample results are traceable to IFCC reference system
- Lyophilized calibrators and quality control materials allows for long shelf life and easy transportation



Product	Specification
HbA1c Calibrator (2 levels)	1 test/kit
HbA1c Control (2 levels)	0.25ml/kit, 0.5ml/kit

Storage and stability: 24 months at 2-8 °C

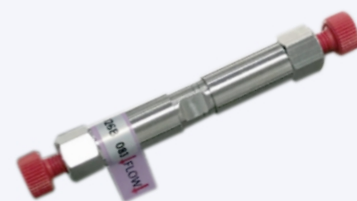
## Convenient

All in one reagent package simplifies cost and inventory Management

- Reagent
- Column
- Vials
- Terminal Printer paper
- Filters

## 800/1600 tests Reagent kit

- 4 months open bottle stability at 4-30°C
- 24 months shelf life at 4-30°C



# Easy Operation with High Efficiency

## Global Leading HPLC Principle

High Performance Liquid Chromatography (HPLC) is considered as the “Golden Standard” method for the measurement of HbA1c

- Different hemoglobin can be separated and show on the graph
- Better Precision

## Cutting-edge Technology

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

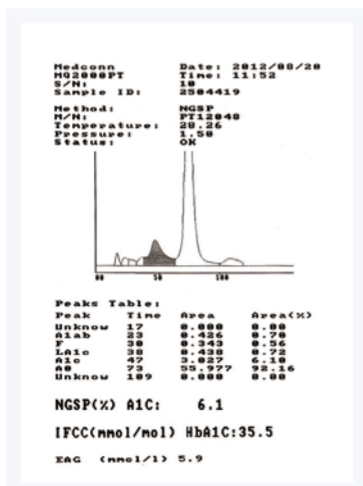
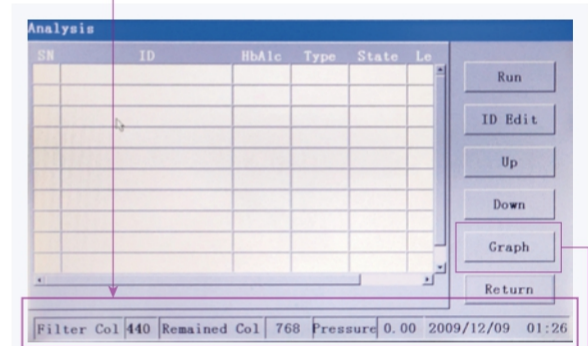
## Marketing

- More than 3200 installations  
Ten years of market practice  
Stable with low failure rate
- Suitable for 8-50 tests/day labs

## Easy Operation

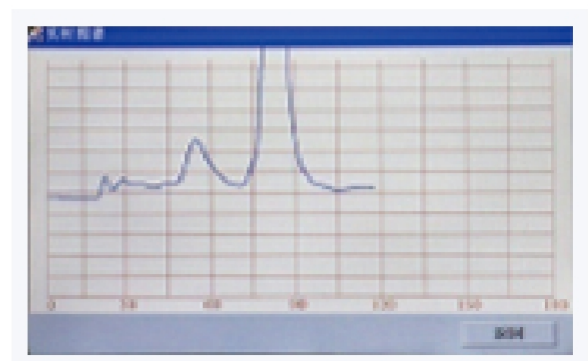


All Status On Screen




Report Auto-printing

Realtme result graph



## Accuracy

<b>Bias</b>	at 30 mmol/mol	-0.3	mmol/mol
	at 50 mmol/mol	0.7	mmol/mol
	at 70 mmol/mol	1.6	mmol/mol
<b>Imprecision</b>	CV	1.2	%
<b>Linearity</b>	r	0.9994	
<b>Total Error</b>	TE	1.9	mmol/mol

 <b>Summary Analytical Performance</b>			
<b>Organisation</b>	Shanghai Medconn Medical Technology Co.,Ltd.		
<b>Instrument</b>	MQ-2000PT		
<b>Date Of Certification</b>	01 July 2021		
<b>Bias</b>	at 30 mmol/mol	-0.3	mmol/mol
	at 50 mmol/mol	0.7	mmol/mol
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<b>Imprecision</b>	CV	1.2	%
<b>Linearity</b>	r	0.9994	
<b>Total Error</b>	TE	1.9	mmol/mol
Analytical Performance Individual Samples			
Sample ID	Target Value	Your Result	Your Bias
01	50.1	50.8	0.7
02	76.8	78.1	1.3
03	40.4	39.9	-0.5
04	59.7	60.7	1.0
05	48.1	48.6	0.5
06	85.0	85.8	0.8
07	57.4	59.6	2.2
08	71.5	72.7	1.2
09	30.7	30.1	-0.6
10	54.9	56.3	1.4
11	43.2	43.2	0.0
12	95.3	98.9	3.6
13	50.1	50.8	0.7
14	101.3	103.3	2.0
15	40.4	39.9	-0.5
16	54.9	56.3	1.4
17	65.6	68.3	2.7
18	35.6	35.5	-0.1
19	88.7	92.4	3.7
20	52.3	53.0	0.7
21	59.7	61.8	2.1
22	71.5	72.7	1.2
23	46.0	46.5	0.5
	81.6	83.6	2.0

## Stability

More than 8 years NGSP and IFCC certification

Since 2013



## Effects of Coexisting Substances

Bilirubin • F	- 19.7 mg/dL
Bilirubin • C	- 21.0 mg/dL
Hemolytic hemoglobin	- 488 mg/dL
Chyle	- 1550 FTU
Ascorbic acid	- 50 mg/dL
Glucose	- 1200 mg/dL
Acetaldehyde	- 60 mg/dL

No interference from coexisting substances up to left concentrations



## Medconn Diagnostics

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 most provinces and regions in Global and its products cover HbA1c, Clinical Chemistry, Immunoassay, POCT, etc.

Medconn includes Hangzhou Medconn Diagnostics Technology Co., Ltd., Shanghai Medconn Medical Technology Co., Ltd., Shanghai Medconn Biotechnology Co., Ltd., and Beijing Medconn Medical Devices Co., Ltd. Of the four companies, Hangzhou Medconn Diagnostics Technology Co., Ltd. (Shanghai Branch) undertakes the functions of marketing center, responsible for unified external sales and service, and the other three companies undertake R & D and production functions.

Medconn is the leading brand in the field of HbA1c testing in China, providing professional products and service for the world.

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Medconn Diagnostics

A: 7F, Tower 2, Landmark Center, No.89, Zhapu Road, Shanghai, China 200085

T: +86 21 5108 6726

E: [International@medconn.com](mailto:International@medconn.com)

[www.Medconn.com/en](http://www.Medconn.com/en)