

## Specifications

Principle	Ion-exchange High Performance Liquid Chromatography (HPLC)
Sample Handler	Diluted and Whole Blood Sample Auto-switching Sample Barcode Auto-reading Cap Piercing Auto-mixing
Sample Aspiration Volume	10µL
Loading Capacity	50 Samples
Throughput	≤160s/test
Measuring Range (NGSP)	4%-17%
Precision	CV≤2%
Result Output	Screen/Lis System/Internal Terminal printer
Working Environment	10°C-30°C, Humidity≤80%, Self-adaptive Altitude
Power Supply	230V~ 50Hz 100VA
Dimension/Weight	610*500*410mm,29kg

### Consumables

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



### Easy to use Package

- Column
- Filter
- 400 tests\*Reagent kit:  
4 months open bottle stability at 4-30°C  
24 months shelf life at 4-30°C



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**VirtueDx Philippines, INC.**

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## Glycated Hemoglobin (HbA1c) Analyzer

# VERCENTRA MQ-2000DX(HPLC)



VIRTUEDX



# Easy Operation for High Efficiency

## Automatic Identification of Sample Type

- Whole blood: 1.5mL (tube height)
- Dilution mode: 5 $\mu$ L
- Loading 50 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



Automatic Loading System



HPLC Column

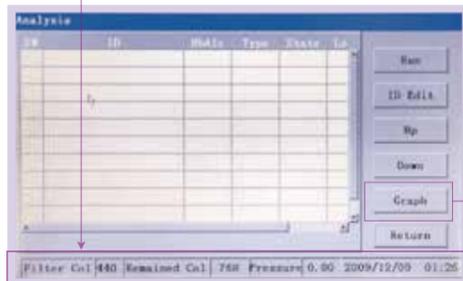


Automatic Barcode Reader

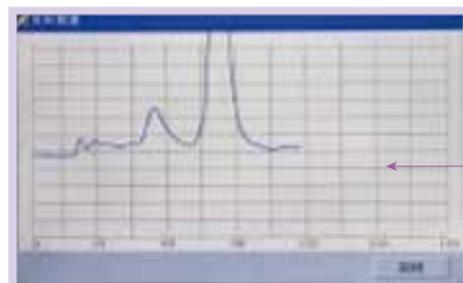
### Easy Operation



### All Status on Screen



### Realtime Result



### Report Auto-printing

**Report**  
 Medcom Date: 2022/12/29  
 HQ2000PT Time: 16:22  
 S/N: 32  
 Sample ID: N03M1  
 Method: NGSP  
 M/N:  
 Temperature: 35.10  
 Pressure: 1.49  
 Status:OK

**Peaks Table:**

Peak	Time	Area	Area(%)
Unknow	17	0.000	0.00
A1ab	23	0.489	0.78
F	27	0.507	0.81
LAIc	32	0.347	0.55
A1c	44	2.879	7.10
Unknow	68	4.859	0.00
Unknow	75	1.384	0.00
A0	79	26.037	41.90
HbS	91	5.104	0.00
Unknow	102	20.529	0.00

NGSP(%) HbA1c:7.1



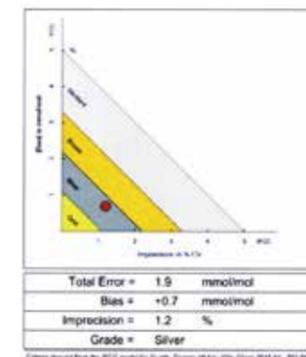
Global Innovation · Local Solution

## Global Standard

- High Performance Liquid Chromatography (HPLC) is considered as the "GoldenStandard" method for the HbA1c test
- Calibrator traceable to IFCC reference method
- Simultaneous reporting of NGSP and IFCC results

## Technology Assurance

- 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



**IFCC Summary Analytical Performance**

Information: Shanghai Medcom Medical Technology Co., Ltd.  
 Model: HQ2000PT  
 Date of Certification: 21 July 2022

Item	Value	Unit	Requirement
Bias	-0.3	mmol/mol	mmol/mol
Imprecision	0.7	%	mmol/mol
Linearity	1.2	%	mmol/mol
Total Error	1.9	mmol/mol	mmol/mol

**Analytical Performance Individual Samples**

Sample ID	Target Value	Test Result	Total Bias
01	50.0	50.0	0.0
02	50.0	50.0	0.0
03	50.0	50.0	0.0
04	50.0	50.0	0.0
05	50.0	50.0	0.0
06	50.0	50.0	0.0
07	50.0	50.0	0.0
08	50.0	50.0	0.0
09	50.0	50.0	0.0
10	50.0	50.0	0.0
11	50.0	50.0	0.0
12	50.0	50.0	0.0
13	50.0	50.0	0.0
14	50.0	50.0	0.0
15	50.0	50.0	0.0
16	50.0	50.0	0.0
17	50.0	50.0	0.0
18	50.0	50.0	0.0
19	50.0	50.0	0.0
20	50.0	50.0	0.0
21	50.0	50.0	0.0
22	50.0	50.0	0.0
23	50.0	50.0	0.0
24	50.0	50.0	0.0

