

Stock Code: 300298

**Sinocare**  
caring for love

# PCH-50

Portable glycated hemoglobin analyzer



Easy to carry



Easy to operate



Communicate with LIS



Quick test



# PCH-50

Portable glycated hemoglobin analyzer

## CLINICAL SIGNIFICANCE OF HBA1C:

The gold standard for assessing long-term diabetes screening, HbA1c  $\geq 7\%$  as an important judgment criterion for initiating clinical treatment or the need to adjust the treatment plan for type 2 diabetes!

**Type 2 diabetes:** In the early stage of treatment, it is recommended to test once every 3 months, and after the blood glucose control reaches the standard, it can be checked once every 6 months.

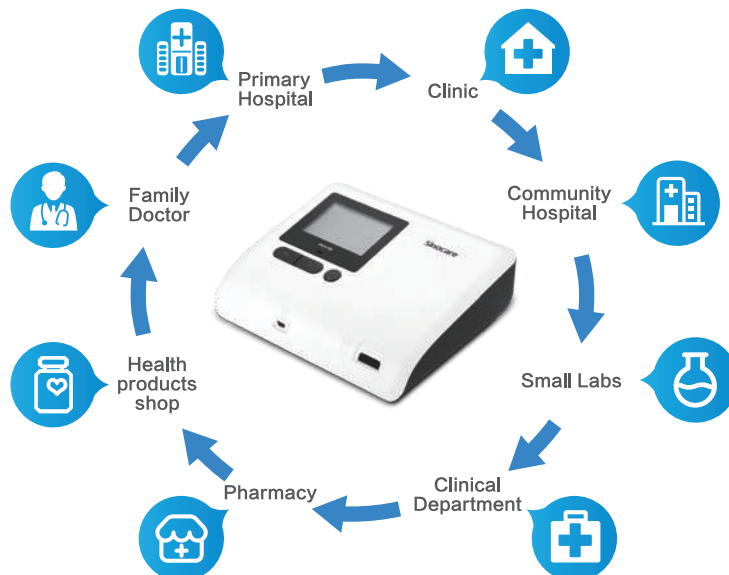
**Type 1 diabetes:** on the basis of avoiding hypoglycemia, HbA1c  $< 7.5\%$  in children and adolescents; HbA1c  $< 7.0\%$  in adulthood should be achieved.

The reference table of HbA1c and average blood glucose

HbA1c (%)	Mean plasma glucose level [ mmol/L ( mg/dL ) ]
6	7.0 ( 126 )
7	8.6 ( 154 )
8	10.2 ( 183 )
9	11.8 ( 212 )
10	13.4 ( 240 )
11	14.9 ( 269 )
12	16.5 ( 298 )

## APPLICATION SCENARIOS:

Application scenarios: primary institutions (low amount of daily test and cost-effectiveness)



-China Guidelines for the Prevention and Treatment of Type 2 Diabetes (2017 Edition) [J]. Chinese Journal of Practical Internal Medicine, 2018, 38(04): 292-344.

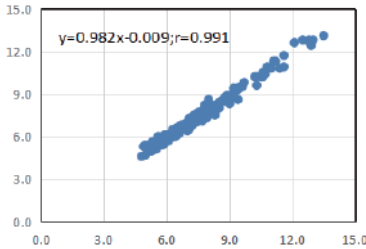
# PCH-50 Portable glycosylated hemoglobin analyzer

## ACCURACY

Sinocare portable glycosylated hemoglobin analyzer (PCH-50) was compared with fully automatic hemoglobin analyzer (HPLC method) produced by an international famous brand.

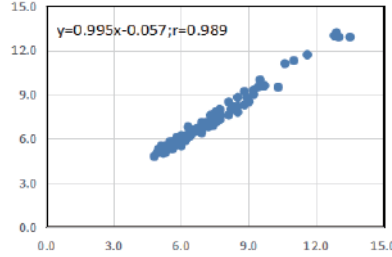
The results showed that the accuracy of Sinocare PCH-50 was highly consistent with the HPLC method and the precision of the test results was excellent. (300 clinical samples, including 200 cases of venous blood and 100 cases of fingertip blood)

PCH-50(venous blood) vs Referred system



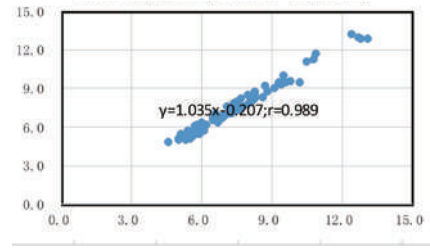
Test results scatter plot with venous blood on PCH-50 and Referred system (Unit: %)

PCH-50(fingertip blood) vs Referring system



Test results scatter plot with fingertip blood on PCH-50 and Referred system (Unit: %)

PCH-50(fingertip blood) vs PCH-50(venous blood)



Scatter plot of test results with fingertip blood and test results with venous blood on PCH-50 (Unit: %)

## CERTIFICATION



# PCH-50

Portable glycosylated hemoglobin analyzer

## SPECIFICATIONS

Sinocare PCH-50 Analyzer	
Language	Simplified Chinese, English
Screen	Dot matrix screen, 240 × 160 pixels
Additional Function	USB, Bluetooth 4.2
Power Input	7.5V DC 1A
Dimension	191mm × 155mm × 60mm (Length × Width × Height)
Net weight of instrument	About 450g
Data storage capacity	500 test values, 20 quality control values
Operation environment	Ambient temperature: 10°C–35°C; Humidity: ≤85%RH
Storage Condition	–20~55°C

Sinocare PCH-50 Test Kit	
Principal	Boric acid affinity liquid chromatography
Sample type	Fresh capillary whole blood, venous whole blood
Measurement Range	4%–15% HbA1c
Sample Volume	5 μ L
Test time	≤3.5min
Storage Condition	2~8°C
Accuracy	HbA1c samples (4%–6% ), the absolute deviation ≤ ± 0.6%HbA1c; HbA1c samples (6.1%–15.0% ), relative deviation ≤ ± 10.0%
Precision	CV≤8.0%
Expiration Date	12 months from manufacture
Packing Specification	30 pcs/box, 50 pcs/box, individual packed test trip

## ABOUT SINOCARE

By cherishing our core values of “Honor the Commitment, Dedicate to Healthcare”, we have been fully dedicated to the innovation of biosensor technology, developing, manufacturing and marketing rapid diagnosis testing products for people with chronic diseases and healthcare professionals.

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