## Specifications

### A1cChek Pro Glycohemoglobin Analyzer

| | |
|---|---|
| Test item | Glycohemoglobin (HbA1c) |
| Principle | Boronate affinity chromatography |
| Measuring range | 4.0% ~ 14.0% |
| Sample material | Venous or capillary blood |
| Sample volume | 3μL (whole blood) |
| Testing time | 5 min |
| Throughput | 5 min to the first result, subsequently 1 result every 1 min |
| Result metric | NGSP (%); IFCC (mmol/mol); eAG (mg/ml; mmol/L) |
| Voice prompt | Voice prompt in the whole process of operation |
| Printer | Internal thermal printer |
| Data storage | 1000 results |
| Data port | USB, RJ45 LAN, RS232-C |
| Wireless connectivity | WIFI |
| Power supply | External power adapter |
| AC input | 100-240V ~ , 1.5A, 50-60Hz |
| DC output | 19.0V ⎓, 4.74A |
| Temperature calibration | Automatic calibration by temperature sensor |
| Dimension(mm) | (341±2)mm × (266±2)mm × (234±2)mm |
| Screen size | 154.1mm × 85.9mm |
| Weight of analyzer | 4.4Kg |
| Working condition | Temperature: 10 ~ 40℃, Humidity: 30% ~ 75%, Atmospheric pressure: 700hpa ~ 1060hpa |
| Storage condition | Temperature: -20 ~ 55℃, Humidity: ＜80%, Atmospheric pressure: 700hpa ~ 1060hpa |

## Catalog

| Product | Catalog No. | Contents | |
|---|---|---|---|
| A1cChek Pro Glycohemoglobin Analyzer | A1C-M31 | A1cCheck Pro Glycohemoglobin Analyzer Power Adapter User Manual Quick Guide Cleaning and Maintenance Guide Warranty Hangtag | |
| A1cChek Pro Glycohemoglobin Test Kit | A1C-S32 | HbA1c Test Strip | 200 |
| | | Sampler | 200 |
| | | Code Chip | 2 |
| | | Package Insert | 1 |
| | | Buffer A | 35ml x 1 |
| | | Buffer B | 35ml x 1 |
| | | Blood Collector | 200 |

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# A1cChek Pro Glycohemoglobin Analyzer

## HbA1c Testing for Professional Use

## Simplest Operation with Great Precision

**Accurate Result with CV<3%**

**One-Step Operation**

**4 Samples / 8 Minutes**

ifCC   NGSP   CE   ISO 13485

# Clinical Application

## What is HbA1c

1. HbA1c, formed in a non-enzymatic glycation pathway by hemoglobin's exposure to plasma glucose, reflects average glycemia over several months.

2. As a primary technique to assess the effectiveness of diabetes management, HbA1c has strong predictive value for diabetes complications. Lowering HbA1c has been shown to reduce complications.

3. HbA1c ≥6.5% (48 mmol/mol) is one of the criteria for diabetes diagnosis. Normal HbA1c range is 4.0-5.7% (20-39 mmol/mol), while 5.7-6.4% (39-46 mmol/mol) is considered as prediabetes.

4. Point-of-care testing for HbA1c provides the opportunity for more timely treatment changes.

**DIABETES**
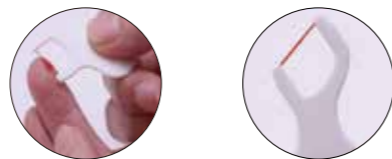≥6.5%
<6.5%

**PREDIABETES**
≥5.7%
<5.7%

**NORMAL**
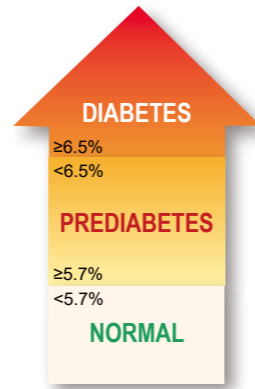
## One-step Operation

### Venous Blood

Turn the anti-coagulated venous blood tube upside down for at least 6 times. Use the blood collector to dip the blood sample from the tube, and touch the sampler thread to the blood sample until the thread becomes completely red.

### Capillary Blood

Put the lancing device against the sampling site, press the release button on lancing device to prick the fingertip. Touch the sampler thread to the blood sample until the thread becomes completely red.

### Apply the Blood Sample

Press and hold the sampler on the sampler port for 3 seconds. After three beeps, remove the sampler.
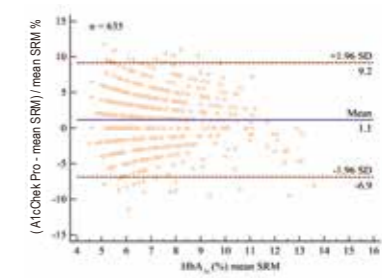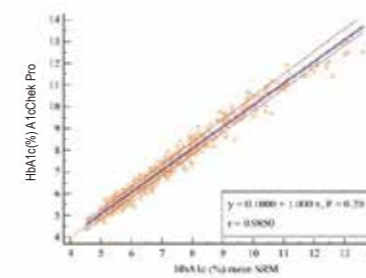
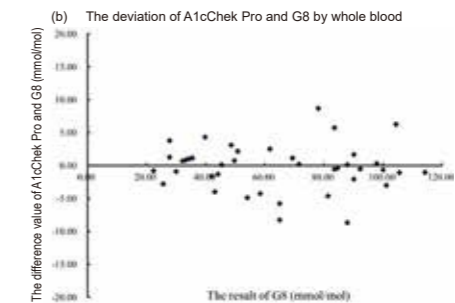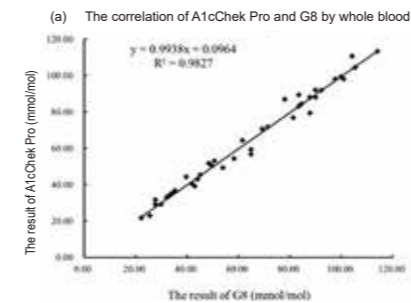# Accurate Results

## Comparison Evaluation Report

### Shanghai Sixth People's Hospital

| CV (%) | Sample 1 (5.2% HbA1c) | Sample 2 (11.6% HbA1c) |
|---|---|---|
| Within-run | 1.9% | 1.8% |
| Between-run | 0.0% | 0.6% |
| Between-day | 1.4% | 0.0% |
| Total | 2.3% | 1.9% |



### Beijing Center for Clinical Laboratory

| Mean Value (HbA1c %) | SD | CV |
|---|---|---|
| 5.58 | 0.15 | 2.60% |
| 11.88 | 0.24 | 2.04% |

(a) The correlation of A1cChek Pro and G8 by whole blood

$y = 0.9938x + 0.0964$
$R^2 = 0.9827$

(b) The deviation of A1cChek Pro and G8 by whole blood

## 17 Patents of 12 Countries