ACCURACY (correlation with HPLC)

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<th>HbA1c (%)</th>
<th>StatA1C</th>
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REPRODUCIBILITY (INTRA-ASSAY PRECISION)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Number of replicates</th>
<th>Mean</th>
<th>Standard deviation</th>
<th>Coefficient of variation CV (%)</th>
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<tbody>
<tr>
<td>Low</td>
<td>20</td>
<td>4.83</td>
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<td>1.14</td>
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<tr>
<td>High</td>
<td>20</td>
<td>8.01</td>
<td>0.00</td>
<td>0.69</td>
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</tbody>
</table>

Simple – fast – reliable

- Advanced Elution Program
  - HbA1c results in three minutes
  - 30 samples/hr, 80% reagent reuse

- Color Display and Touch Screen

- Fully Enclosed Reagent Module
  - All-in-one packaged reagent kit for quick replacement and safety improvement

StatA1C

AUTOMATIC GLYCOHEMOGLOBIN ANALYZER
By Ion-Exchange HbA1c
**StatA1C**

**AUTOMATIC GLYCOHEMOGLOBIN ANALYZER**

**HbA1c Analyzer**

Glycated hemoglobin (HbA1c) is used as an index of average blood glucose levels over the lifespan of the red blood cells, approximately 2-3 months, and is therefore considered a valuable indicator of long-term diabetic control. The test of HbA1c has been widely used in clinical research laboratories and hospitals for diabetes diagnosis and control, diabetic patient care, evaluation of diabetic treatment.

KGI (Taiwan) has developed the StatA1C HbA1c Analyzer from the user perspective. In combination with the concept of easy operation and less maintenance, StatA1C provides direct determination of stable hemoglobin HbA1c using the principle of the gold standard method (ion-exchange chromatography). StatA1C has recently passed the clinical trial in Taiwan and the study has suggested StatA1C offers accurate HbA1c results with CV loss than 2% and is comparable to other HPLC instruments.

### Features

- Automatic sample loading and hemolysis: direct determination of HbA1c with no sample pre-treatment required.
- New designed mini-column: low pressure and high performance separation provide fast detection of stable HbA1c with low reagents consumed.
- Gradient elution technique: continuous step gradient elution for complete separation of HbA1c, HbA1ab, HbA2, HbF and Hbs.
- Fully Enclosed Reagent Module: all-in-one packaged reagents and waste for the improvement of safety and easy operation.
- Accurate and precise: minimize the interference of variants using advanced integration program.
- Easy-to-use: a large-size color LCD display, advanced touch screen control interface, user friendly icon based navigation.

### Specifications

**System**

- **Analyzer**: Stable HbA1c
- **Principle**: Ion-exchange chromatography
- **Wavelength**: 415 nm
- **Analysis speed**: < 3 minutes / sample
- **Data storage**: 10,000 samples
- **Resolution**: 0.1%

**System control and data processing**

- **Operating system**: Linux, touch screen
- **Display**: 800 by 480 resolution color LCD touch display
- **Output**: Linear scale bar, print x (640 x 480), parameters, quality control graphs, etc. for print out
- **Communication**: RS-232 standard serial, USB, barcode reader

**Sampling**

- **Sample type**: Whole blood
- **Sample volume**: 15 μL
- **Sample tray**: 20 samples
- **Sample cup**: 2 mL

**Reagents and column**

- **Reagents**: Fully enclosed module
- **Column**: Mini-column

**Operation requirements**

- **Temperature**: 10°C ~ 32°C
- **Relative humidity**: < 80%
- **Pressure**: 86 ~ 106 KPa
- **Line voltage**: 100-240 V AC
- **Frequency**: 50Hz to 60Hz, 100 VA

**Weight and dimensions**

- **Height**: 520 mm
- **Width**: 420 mm
- **Depth**: 515 mm
- **Weight**: 14 kg