



# HLC<sup>®</sup>-723 *G11*

TOSOH AUTOMATED GLYCOHEMOGLOBIN ANALYZER



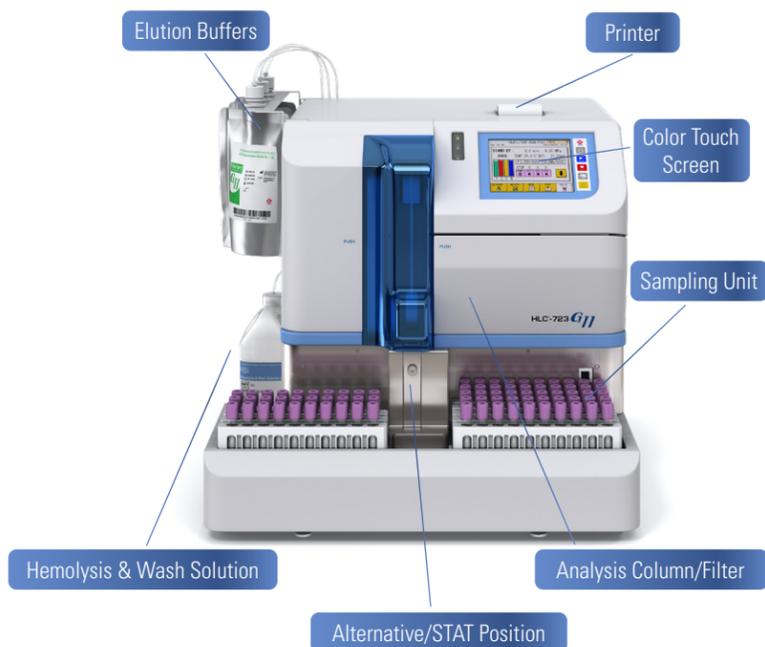
**QUALITY AND PERFORMANCE**

**TOSOH BIOSCIENCE**

The G11 is not FDA cleared and is not available for sale in the US

## Fast. Accurate. Compact.

The Tosoh G11 HPLC Analyzer is a fast and compact HPLC analyzer that delivers accurate A1c results with variant detection. This user-friendly, low maintenance instrument is an excellent fit for laboratories of all types and sizes.



- Detailed result print-out in 60 seconds



- Column change in seconds
- Finger tight connection
- Proprietary non-porous resin packaging



- Run priority samples
- Automatic sensing of tubes or sample cups
- Instruct the analyzer to increase or decrease dilution as needed



- Advanced design for filter holder
- Simplified filter replacement

## User-Friendly Operation

### SPEED



- A1c result in 60 seconds
- Continuous loading
- 90 to 290 minutes in walkaway time

### SECURE



- Enhanced external data storage using USB memory stick
- Bidirectional LIS interface
- Up to 5 user Log-ins with different priority levels

### SIMPLICITY



- One touch automated start-up and stop function

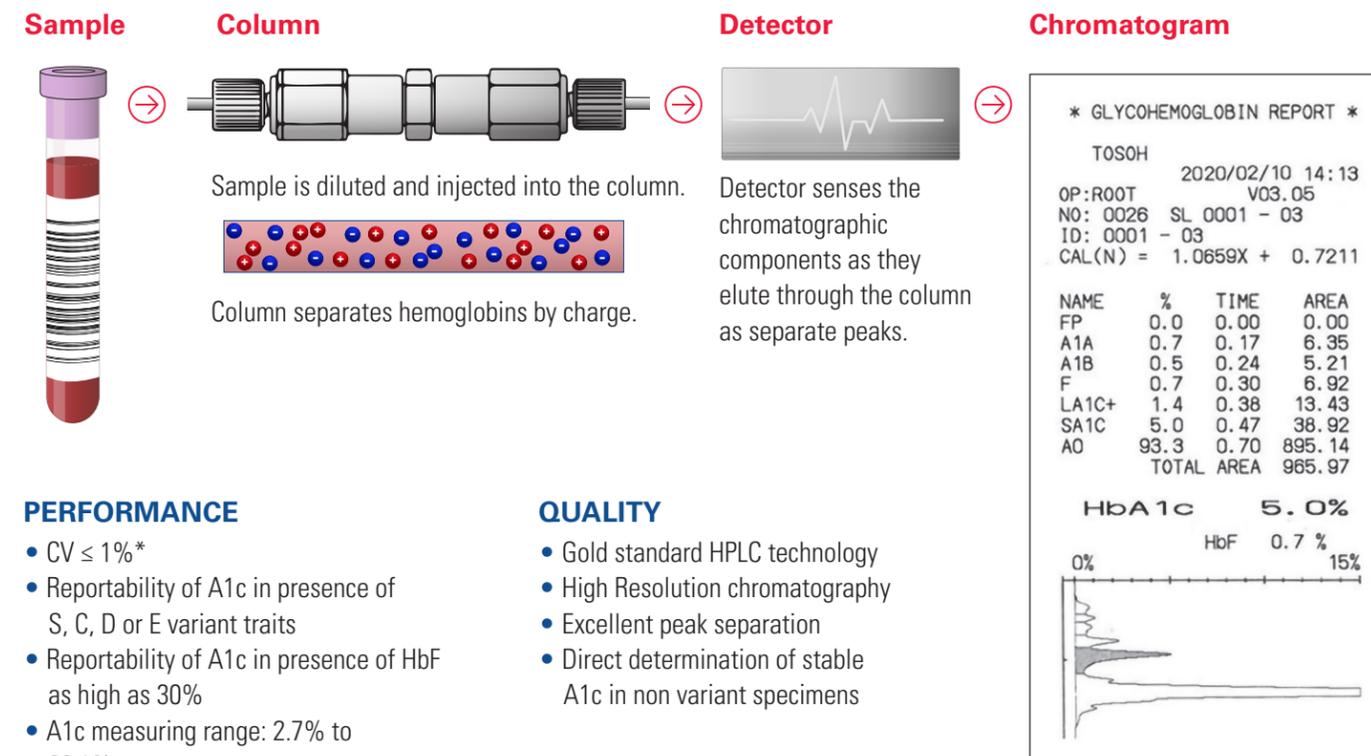
### WORKFLOW ADVANTAGES



- Reagent lot traceability (input Lot # and expiration date using handheld barcode reader)
- 30-day calibration reminder
- Automated cap piercing, closed primary tube sampling
- Positive sample ID
- No pretreatment of samples needed prior to running samples

## HPLC Technology

Tosoh's unique non-porous ion exchange HPLC column provides excellent resolution of peaks on the chromatogram.



### PERFORMANCE

- CV ≤ 1%\*
- Reportability of A1c in presence of S, C, D or E variant traits
- Reportability of A1c in presence of HbF as high as 30%
- A1c measuring range: 2.7% to 20.1% (NGSP units)
- Calibration frequency once in 30 days (Note: always follow good manufacturing practices)

\*Data from G11 Instructions For use

### QUALITY

- Gold standard HPLC technology
- High Resolution chromatography
- Excellent peak separation
- Direct determination of stable A1c in non variant specimens

## Instrument Configurations



90 Sample Loader



290 Sample Loader

### COMPACT BENCHTOP SIZE

- Small footprint analyzer with a 90 sample loader (W 21" x D 20" x H 19") that weighs 82 lbs
- Scalable to 290 sample loader (W 44" x D 20" x H 19") weighs 119 lbs
- Total lab Automation model available to place on Third party track line

### POWERFUL DATA MANAGEMENT



Experience the power of the G11 when combined with the 501RP+ reporting middleware.

Refer to 501RP+ brochure for details.

## SPECIFICATIONS

Analytes	HbA1c (SA1c), HbF, HbA1 (Total A1)
Principle	Ion-exchange high performance liquid chromatography Visible two-wavelength absorption
Sample requirement	Whole blood or diluted blood (Preserved with EDTA)
Sampling volume	Whole blood: 3 µL Diluted blood: 150 µL
Throughput	1.0 minutes per sample
Data storage	On-board memory: up to 800 samples

### Main unit

Sampling	Cap-piercing of primary sample tubes
Whole blood	Automatic dilution by Hemolysis and Wash solution in the dilution port
Column oven	Thermomodule in aluminum block
Column connection	Finger-tight type
Detector unit	LED colorimetric detector

### Sample loading units

Sample loading capacity	G11-90SL: 90 samples plus one STAT sample G11-290SL: 290 samples plus one STAT sample
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Sample holding	10 samples/rack
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Sample vial	12 -15 mm x 75 -100 mm primary tubes Tosoh sample cups
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Barcode specifications	NW-7, CODE39, ITF, CODE128, JAN, COOP 2 of 5, Industrial 2 of 5
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### System control/Data processing

Display & Input	Liquid crystal display touch panel
Output	Thermal printer (roll paper), SmartMedia or LIS
Communication	RS-232C standard serial (bi-directional)
Operating temperature	15 - 30 °C
Power requirement	AC 100 - 240 V, 50/60 Hz, 180 VA
Dimensions/Weight	<b>90SL model:</b> W 21" (530 mm) x D 20" (515 mm) x H 19" (482 mm) 82 lbs (37.0 kg) <b>290SL model</b> W 44" (1120 mm) x D 21" (530 mm) x H 19" (482 mm) 119 lbs (54.0 kg)

Analysis Column



Elution Buffers (Variant Analysis Mode) and Hemolysis & Wash Solutions



HbA1c Calibrator Set



HbA1c Control



## PART NUMBERS/DESCRIPTION

0023850	HLC-723G11 (Main Unit)
0023851	HLC-723G11LA (Main Unit) *
0023852	G11-90SL (90 Sample Loader)
0023853	G11-290SL (290 Sample Loader)

\* Possible to connect with Laboratory Automation Belt line

For more information about connecting to third party trackline and/or to 501RP+ reporting middleware, please speak to an associate.

### Consumables

Part Number	Item Name	Item Description
0023478	Column, G11, HPLC TSK Gel	Each
0023479	G11 Variant Elution Buffer No. 1 (S)	1 x 800 mL
0023480	G11 Variant Elution Buffer No. 2 (S)	1 x 800 mL
0023481	G11 Variant Elution Buffer No. 3 (S)	1 x 800 mL
0018767	Hemoglobin A1c Calibrator Set	CAL(1), (2) (4 mL) x 5 each
0021974	Hemoglobin A1c Control	Level 1, 2 (0.5 mL) x 4 each
0023861	Filter Element with flange	5/bag
018431US	Hemolysis/Wash Solution	1 x 2000 mL
018581US	Sample Cups	1000/bag
0023862	G11 Thermal Printer Paper	10/box



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