



HLC[®]-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.

Quality Results



- Detailed result print-out in 60 seconds

HPLC Column



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

Intelligent STAT Position

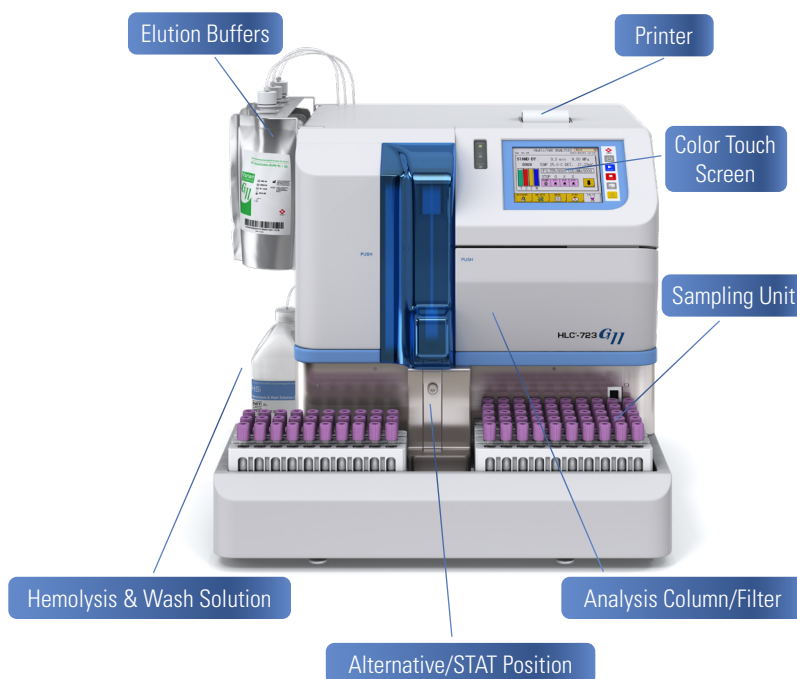


- Run priority samples
- Automatic sensing of tubes or sample cups
- Instruct the analyzer to increase or decrease dilution as needed

One Touch Filter



- 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

SIMPLICITY



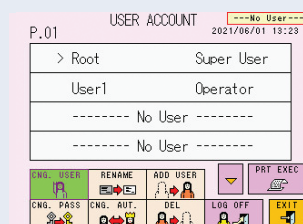
- One touch automated start-up and stop function

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

SECURE



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

HPLC Technology

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

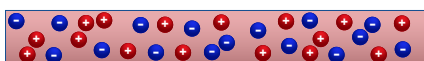
Sample



Column



Sample is diluted and injected into the column.



Column separates hemoglobins by charge.

Detector



Detector senses the chromatographic components as they elute through the column as separate peaks.



Chromatogram

* GLYCOHEMOGLOBIN REPORT *

TOSOH

2020/02/10 14:13

OP:R00T V03.05

NO: 0026 SL 0001 - 03

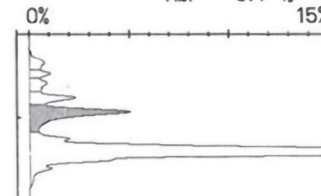
ID: 0001 - 03

CAL(N) = 1.0659X + 0.7211

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.17	6.35
A1B	0.5	0.24	5.21
F	0.7	0.30	6.92
LA1C+	1.4	0.38	13.43
SA1C	5.0	0.47	38.92
AO	93.3	0.70	895.14
TOTAL AREA			965.97

HbA1c 5.0%

HbF 0.7%



PERFORMANCE

- CV \leq 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)

QUALITY

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

*Data from G11 Instructions For use

Instrument Configurations



90 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



290 Sample Loader

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	90SL model: W 21" (530 mm) x D 20" (515 mm) x H 19" (482 mm) 82 lbs (37.0 kg) 290SL model: W 44" (1120 mm) x D 21" (530 mm) x H 19" (482 mm) 119 lbs (54.0 kg)

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
018767	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

Analysis Column



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



HbA1c Calibrator Set



HbA1c Control



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