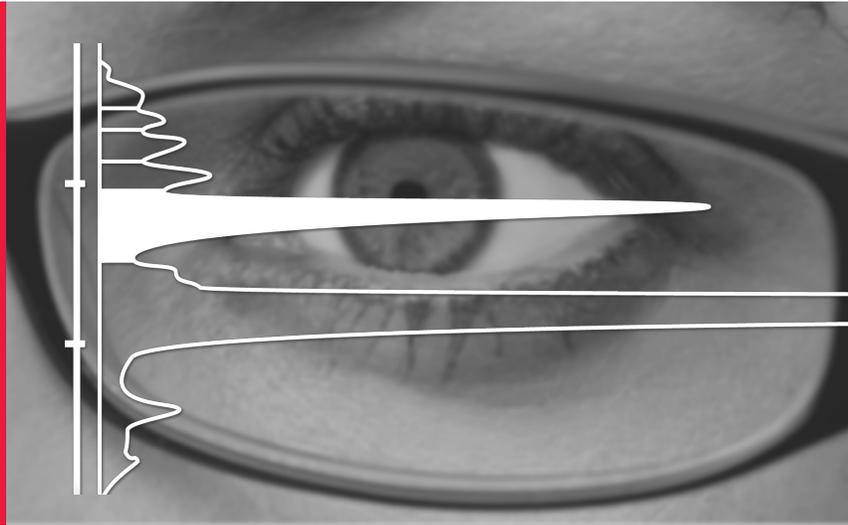




TOSOH

See More than an A1c Number

Tosoh G8 delivers HbA1c results with a detailed graphic representation of the patient, allowing you to see all that is behind the number.



G8 HPLC ANALYZER

- Gold Standard HPLC Methodology
- Time tested Coefficient of Variation (CV) of less than 2%
- Proven track record of instrument reliability
- Method of choice for accurate A1c results without common hemoglobin variant interference
- The G8 grows with your needs and is an ideal partner for laboratories with Track Line Automation needs



Speed

HbA1c analysis
in 1.6 minutes



Precision

Less than 2% CVs



Low Maintenance

Automated daily and
monthly maintenance

TOSOH BIOSCIENCE

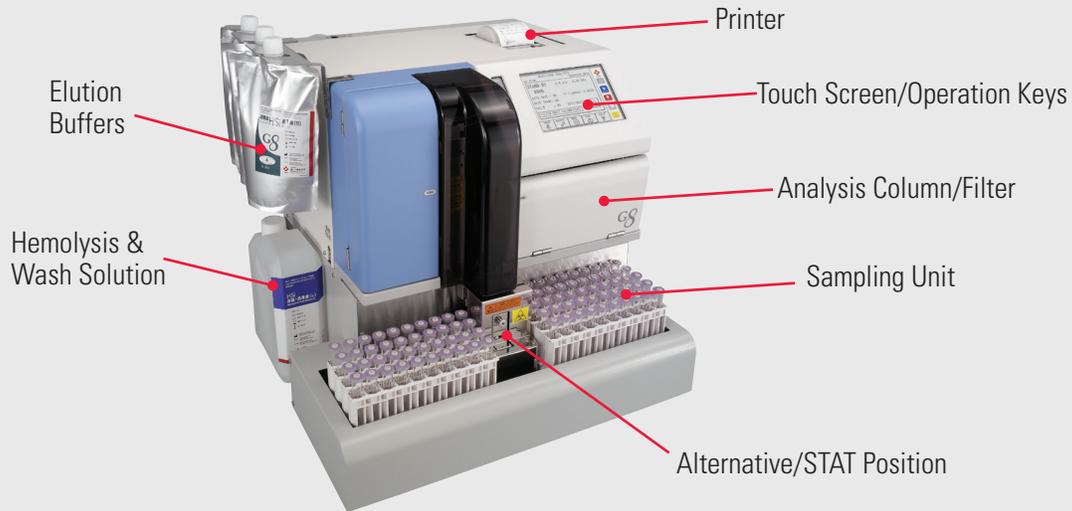
Accurate, Reliable and Efficient

Compact and Flexible

- Small benchtop footprint that fits into any laboratory – 21" w x 20" d x 19" h
- Weighs only 75 lbs
- Scalable in volume with compatibility with third party track lines

Minimal Maintenance

- High Mean Time Between Failure (MTBF)
- Proven record of over 300 days MTBF
- ≤ 1 service calls per year
- Minimal instrument downtime
- Cost savings

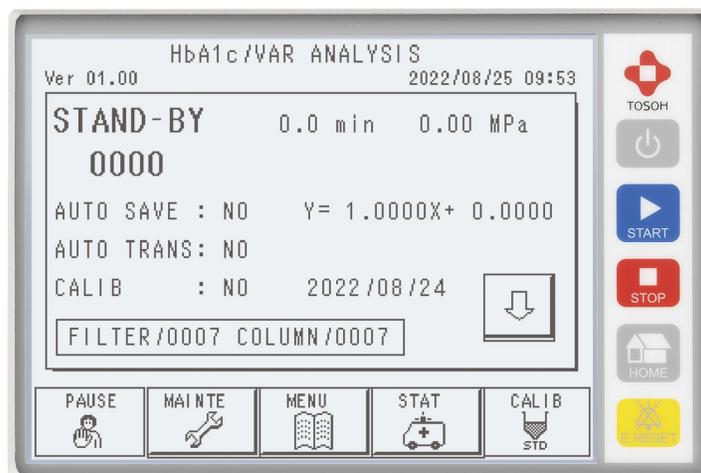


Streamlined Workflow

- No manual cap piercing/sample pre-treatment
- Continuous sample loading
- Positive sample identification
- Result validated autoverification
- Minimum hands-on time

Simplified Operation

- Touch screen
- User-friendly interface
- Automated start-up and daily maintenance
- Automated primary tube sampling



Reference Laboratory

Clinic

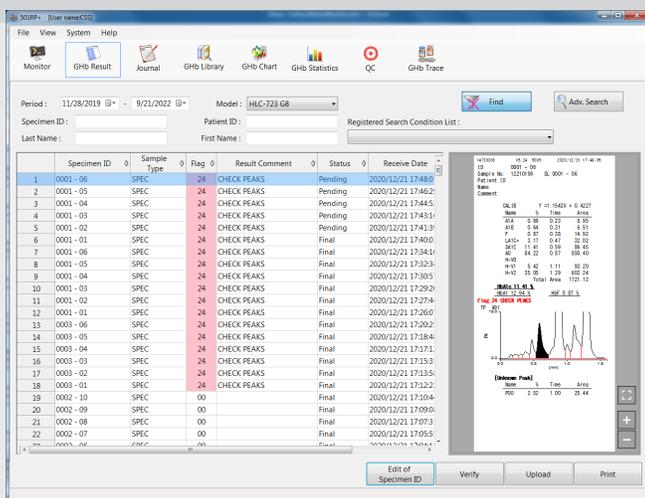
Hospital



Adaptable to All Workload Volumes

With an increase in diabetics, laboratories are experiencing an increase in the volume of A1c testing. The Tosoh G8 is a perfect solution for outpatient clinics, hospitals and large laboratory consolidated set-ups.

The Tosoh G8 fits seamlessly on third-party track lines for a complete laboratory automation experience.



Powerful Middleware

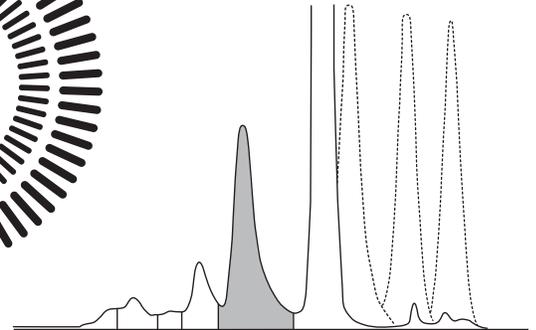
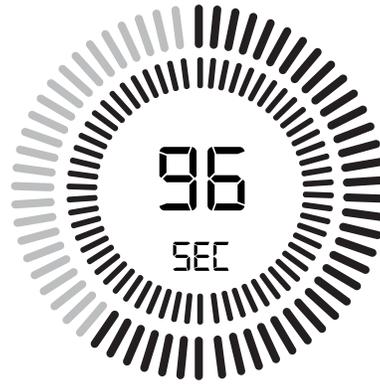
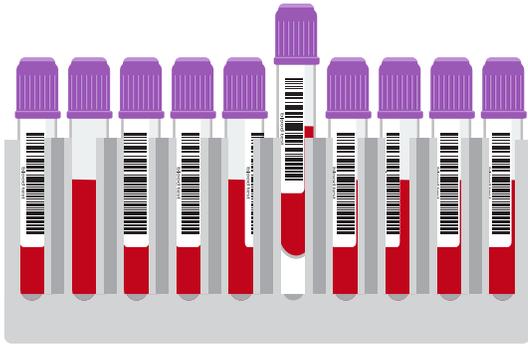
With the power of the 501RP+ middleware solution, the efficiencies in your laboratory, from sample processing to result reporting, have just gotten even better.

- Paperless chromatography
- Auto verification by filtering results
- Reagent and data traceability
- Centralized QC and Levy-Jennings graphs

Fast Turnaround Time

Results in 96 Seconds

37 Results Per Hour



Confidence to the Core

The core of the G8 is Tosoh's proprietary cation exchange HPLC column packed with non-porous resin. With over 30 years of HPLC experience, the G8 analyzer continues to use its in-house developed ion-exchange HPLC column to provide clear and true separation chromatography. The HPLC technology is considered gold standard technology and has been used in pioneer studies like the DCCT*.

*Diabetes Control and Complications Trial



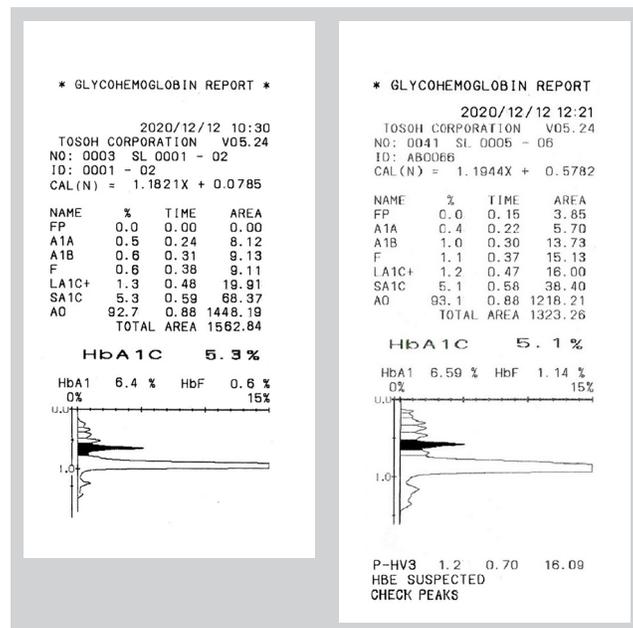
Get the Complete Picture with Tosoh HPLC

Reliable A1c Results

- Clear separation between labile A1c (LA1C or LA1c) and stable A1c (SA1C or sA1c)
- HbAD, HbAS, and HbAC separated from A0 peak
- Reportability of HbA1c in the presence of HbAS, HbAC, HbAD, HbAE and HbF (up to 25%)
- Reportability of HbA1c in the presence of labile Hb, acetylated Hb, aldehyde Hb and carbamylated Hb

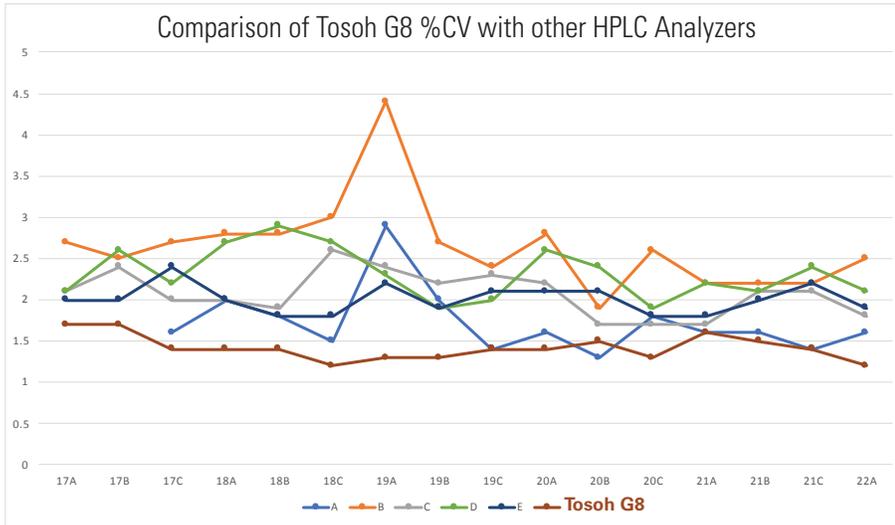
Detailed Chromatographic Result

- Renowned precision, efficiency, and separation
- High resolution chromatograms
- Detailed report showing current calibration and characteristics (retention, percentage, and retention time of each fraction)
- Value of HbA1c %



Tosoh HPLC - Your Key to a Reliable A1c Result

**Historically Consistent CVs
Year after Year of less than 2%**



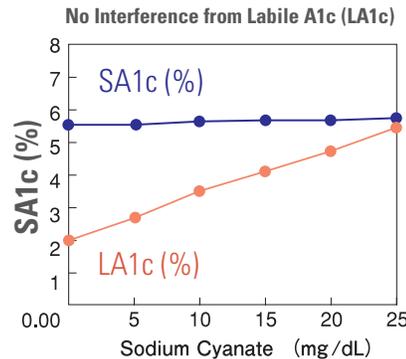
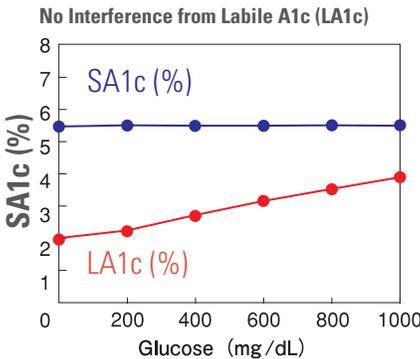
Reference: CAP Survey data: 2017 to 2022

In-house Precision Data

Mean HbA1c	%CV (Total)
5%	0.97
6.5%	1.04
8%	1.28
12%	0.87

Summary of between Lot, Day, Run and Analyzer.

No Interference from Labile A1c



The G8 provides direct determination of stable HbA1c (SA1c) with less than 2% CVs. The HbA1c results are not clinically affected by the presence of most hemoglobin variants or hemoglobin derivatives.

Tosoh HPLC - Brings Valuable Information to the Forefront

Method	Ability to detect common hemoglobin variants and HbF	Interference from elevated HbF
Tosoh Ion-Exchange HPLC	Yes	>25%
Immunoassay*	No	>10-15%
Enzymatic*	No	>10-15%
Boronate Affinity*	No	>15%

* Manufacturers' package inserts have variable claims for tolerance limits to HbF

TECHNICAL SPECIFICATIONS

Analytes	HbA1c (SA1c), HbF, HbA1 (Total A1)
Principle	Ion-exchange high performance liquid chromatography
Sample Requirement	Whole blood or diluted blood (K2/K3 EDTA)
Sampling Volume	Whole blood: 4 µL Diluted blood: 80 µL
Throughput	1.6 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 dilution port
Column oven	Thermomodule in aluminum block
Column connection	Finger-tight type
Detector unit	LED colorimetric detector

Sample Loading Units

Sample loading capacity	G8-90SL: 90 samples and one STAT position G8-290SL: 290 sample and one STAT position
Sample holding	10 samples/rack
Sample vial	12 – 15 mm x 75 – 100 mm primary tubes and Tosoh vials
Barcode specifications	NW-7, CODE39, ITF, CODE128. JAN, COOP 2 of 5, Industrial 2 of 5

System control/Data processing

Display & Input	Liquid crystal display touch panel
Output	Thermal paper (roll paper), USB, LIS or 501RP+
Communication	RS-232C serial standard (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) 75 lbs (34.0 kg)
290SL Model	W 44" (1120 mm) x D 21" (530 mm) x H 19" (482 mm) 114 lbs (51.5 kg)
LA Model	W 21" (530 mm) x D 29" (723 mm) x H 19" (482 mm) 79.4 lbs (36.0 kg)

For more information, call 1.800.248.6764

Tosoh products are for Prescription use only as In-Vitro Diagnostics

TOSOH BIOSCIENCE

www.tosohbioscience.us

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PART NUMBER & DESCRIPTION

0021560	HLC-723G8 (Main Unit)
0021674	G8-LA (Line Automation)
0021561	G8-90SL (90 Sample Loader)
0021562	G8-290SL (290 Sample Loader)
0021955	TSKgel G8 Variant HSi (Column)
0021956	G8 Variant Elution Buffer HSi No. 1
0021957	G8 Variant Elution Buffer HSi No. 2
0021858	G8 Variant Elution Buffer HSi No. 3
018431US	HSi Hemolysis & Wash Solution
0018767	Hemoglobin A1c Calibrator Set
220232	Hemoglobin A1c Control

HbA1c Calibrator Set



HbA1c Control



Analysis Column



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

