

Tosoh Automated Glycohemoglobin Analyzer

# HLC-723GX

SPECIFICATIONS

Parameter	HbA1c(s-A1c), HbF
Sample requirement	Whole blood and diluted samples
Assay principle	High performance ion exchange liquid chromatography
Detection method	2 wave absorption (Detection wave length 415 nm) LED absorption photometer
Through-put	2.2 min. / Test
<b>Analyzer</b>	
Column connection	Finger-tight type
Sample volumes	3 $\mu$ L (Whole blood), 120 $\mu$ L (Diluted sample)
Sampling method	Cap-piercing for primary sample tubes
Sample capacity	10 + 2 (CAL port) Built-in type
Sample container	Primary tube 12 $\times$ 75, 15 $\times$ 75 12 $\times$ 100, 15 $\times$ 100 (mm) (Diameter $\times$ Length)  Sample cup
Barcode Reader	Option
Whole blood dilution method	Automatic dilution using the hemolysate in a dilution port
Column oven	Thermomodule in aluminum block
<b>System Control / Data Processing</b>	
Display & Input	Touch panel LCD
Output	Thermal printer (roll paper), USB stick
Data storage	On-board memory: up to 800 samples USB stick
Communication	RS-232C standard serial (bi-directional)
Power Supply/Power Consumption	AC 100 - 240 V, 50/60 Hz, 180 VA
External Dimensions/Weight	370 (W) $\times$ 525 (D) $\times$ 482 (H) mm / 25.0 kg
<b>Operating Environment</b>	
Temperature	15 to 30 degrees Celsius
Humidity	40 % to 80 % R.H. (with no condensation)
Altitude	Up to 2000 m
<b>Conformity Standard</b>	
EMC standard	IEC61326-2-6 : 2005 / EN61326-2-6 : 2006
<b>Product Numbers / Description</b>	
P/N	Description
0023130	HLC-723GX
0023160	TSKgel GX
0023161	GX Assay Kit
0018767	Hemoglobin A1c Calibrator Set
0021974	Hemoglobin A1c Control Set

TSKgel GX



GX Assay Kit



Hemoglobin A1c Calibrator Set



Hemoglobin A1c Control Set



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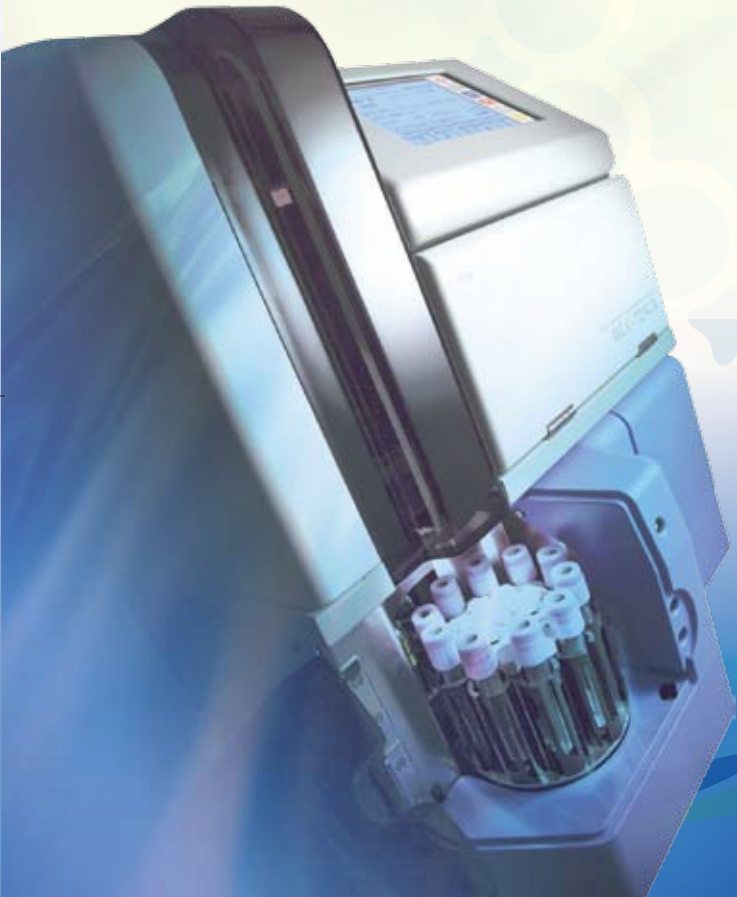
Printed in Japan 5108GX-[Cat.No.0992291]A



Tosoh Automated Glycohemoglobin Analyzer

# HLC-723GX

Golden Standard Accuracy  
near at hand

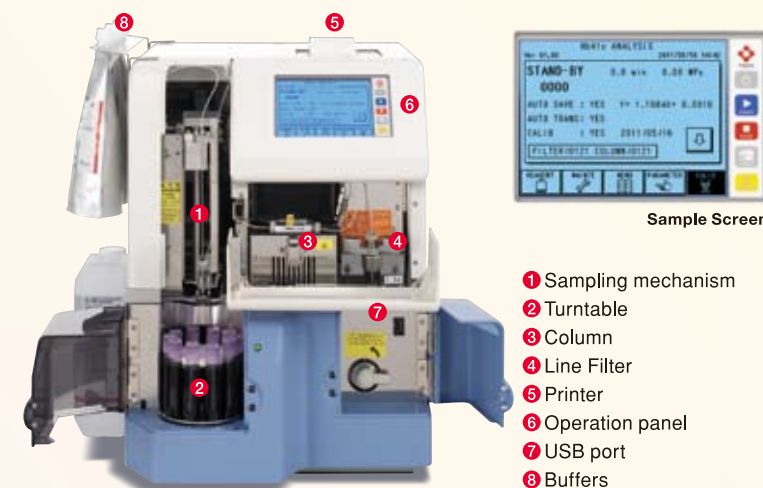




# Hi-accuracy in compact

Tosoh Automated Glycohemoglobin Analyzer

## HLC-723GX



Sample Screen

**Global Standard Certification**

IFCC certified

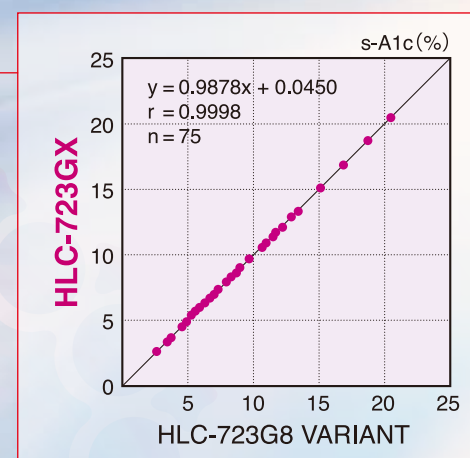


NGSP certified



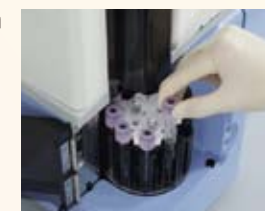
### Hi-accuracy of HPLC principle

- Less than 2% CVs for both intra and inter assay precisions
- No interference from Labile HbA1c, chemically modified Hb, and Hb variants (S, C and D)
- Calibrator is anchored to the IFCC reference material



### Simple Operation

- Simple touch screen operation
- Primary tube sampling
- Cap piercing capability



### Safety Function

- Auto-lock function when running
- Provided various flags to check and support

### Compact Benchtop Size

- Compact foot-print (370 × 525 mm)
- Light weight (25 kg)



### Easy Maintenance

- Virtually maintenance free
- Semi permanent light detector
- No tool requirement for column and filter replacement



## — PERFORMANCE DATA —

### Reproducibility

Intra-assay (n=10)			Inter-assay (n=10)		
	Low	High		Low	High
Mean	5.30	10.46	Mean	5.37	10.42
SD	0.00	0.05	SD	0.05	0.04
CV	0.00	0.48	CV	0.93	0.38

### Interference

No effect has been observed by these substances on s-A1c test result up to the following concentrations in the whole blood.

Glucose*	~ 1000 mg/dL
Sodium cyanate*	~ 25 mg/dL
Acetaldehyde*	~ 25 mg/dL
Free bilirubin	~ 19.2 mg/dL
Conjugated bilirubin	~ 20.1 mg/dL
Chyle (lipid)	~ 1,500 Fomazine turbidity
Asprin*	~ 25 mg/dL

\* One hour incubation at 37 °C

### Sample Chromatogram

