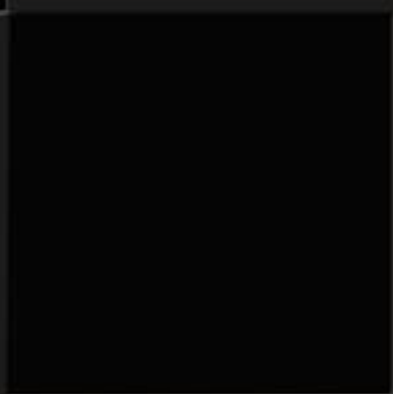


G7 HPLC ANALYZER



TOSOH

G7

G7

The Co



TOSOH

Complete HPLC Solution

- **Stable HbA1c results in 2.2 minutes**
- **β -Thalassemia results in < 8 minutes**
- **Quantification of HbF and HbA2**
- **Multi-functional STAT sample position**
- **Presumptive ID of hemoglobinopathies**
- **Inventory management system**
- **Easy, user-friendly software**
- **Compact Size**
- **NGSP Certified**

G

SYSTEM F



Elution Buffers, Hemolysis and Wash Solutions

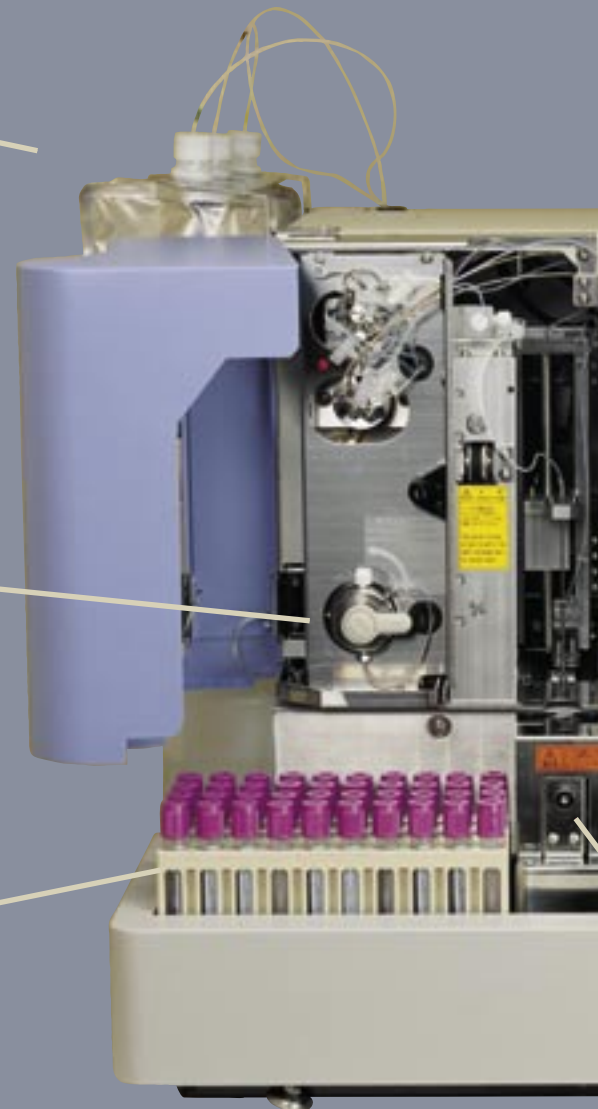
Pre-packaged reagents
improve operator productivity.

Drain Flush System

Convenient drain flush
valve allows easy priming.

Sample Loader Unit

To simplify operation, the G7
has positive sample ID, cap
piercing capabilities and
utilizes primary sample tubes
or sample cups.



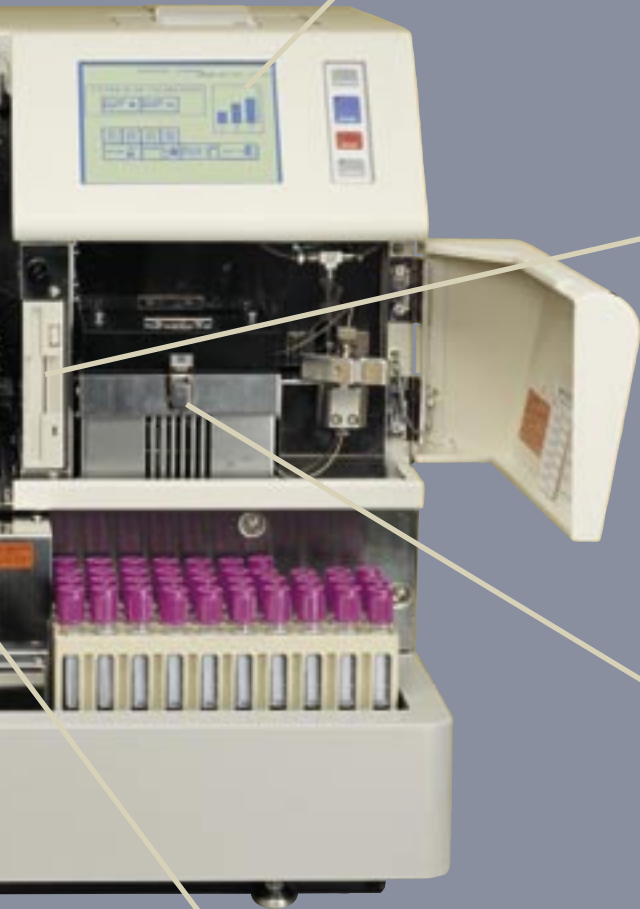
Compact Size

G7's high performance
features fit comfortably
in any lab, utilizing only
2 feet of counter space.



7

FEATURES



Touch-Screen Operation

Easy to use, button-driven menu offers operational simplicity. Inventory management, autopriming and buffer change are simple touch key operations.



Data Storage

Disk back-up for all results including chromatograms. Bi-directional and host query interface capabilities simplify reporting. An optional Data Management System is available.

HPLC Column

Non-porous ion-exchange column ensures true separation of Labile and Stable A1c. A separate β -thalassemia and hemoglobinopathy mode aid in presumptive identification of S, C and D.

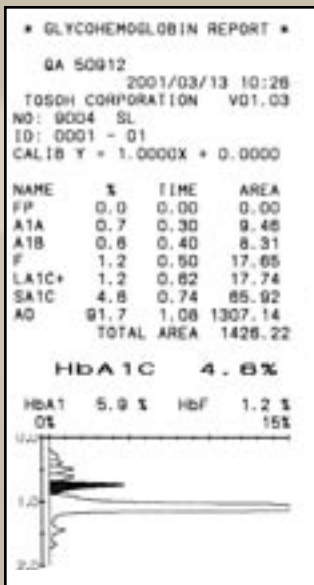


STAT Sample

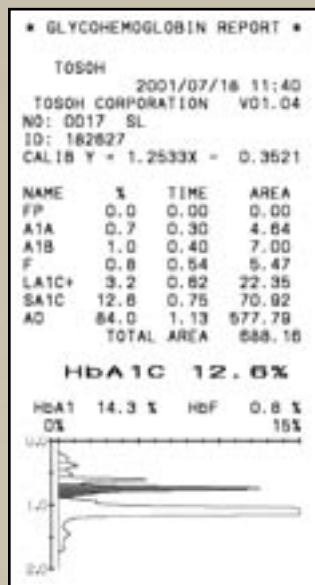
STAT or alternative sampling is possible with a dedicated STAT position.

Glycohemoglobin

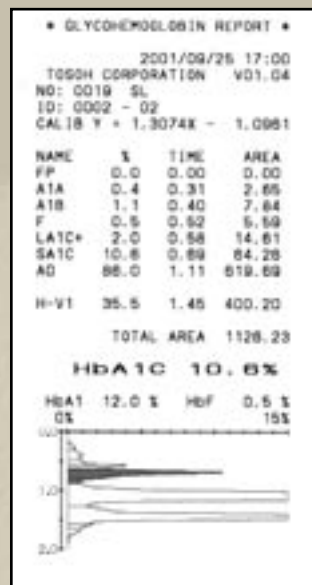
Low HbA1c



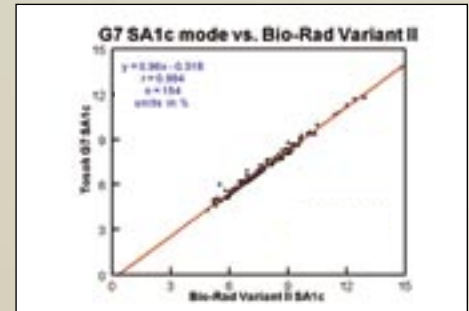
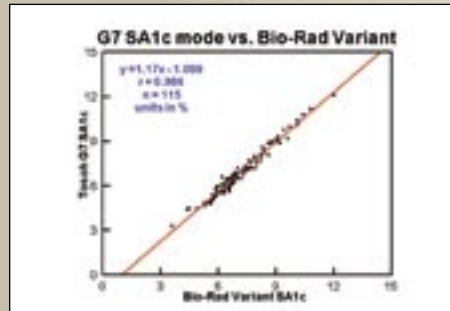
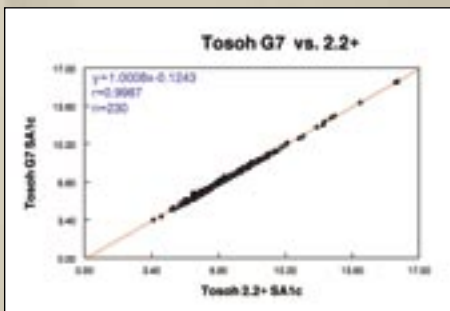
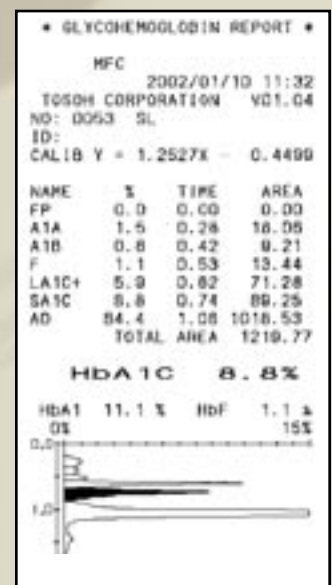
High HbA1c



Presumptive Hemoglobin S-trait



Schiff Base



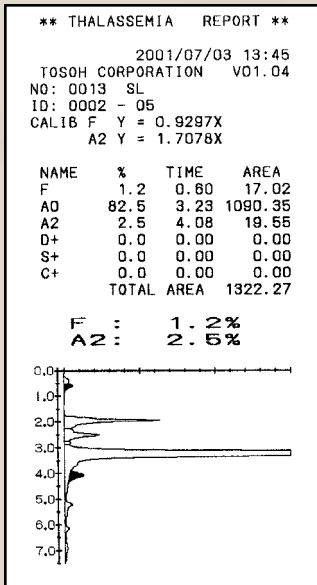
Intra-Assay Precision - SA1c

	Number of Replicates	Mean (%HbA1c)	Standard Deviation	Coefficient of Variation (%)
Control (L)	20	4.9	0.04	0.8
Control (H)	20	8.7	0.04	0.5
Diluted Blood	20	4.0	0.03	0.9
Whole Blood	20	4.1	0.02	0.5
Whole Blood	20	13.35	0.12	0.9

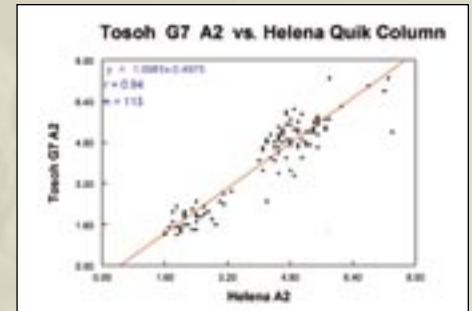
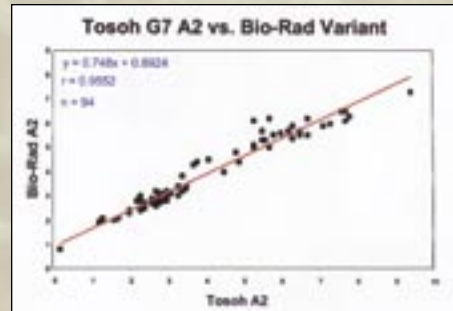
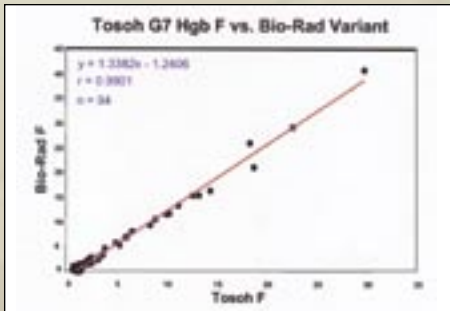
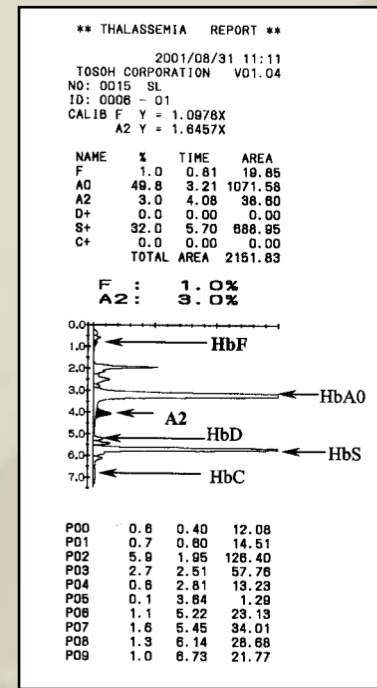
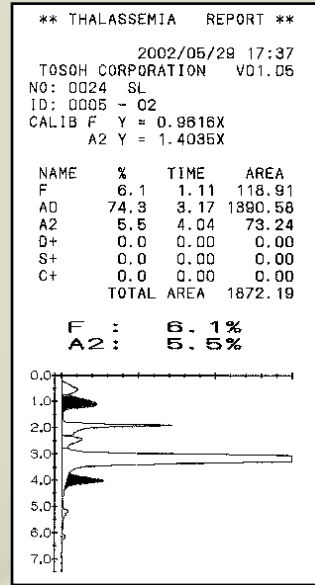
β-thalassemia

β-thalassemia Presumptive Identification Windows

Normal



β-thalassemia Trait



G7 Intra-Assay Precision - HbF and HbA2

HbF

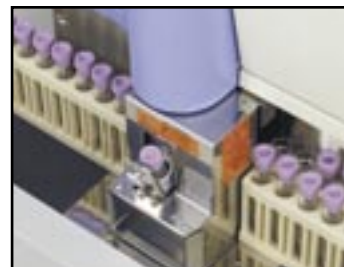
	Number of Replicates	Control Material	Diluted Blood	Whole Blood
Mean (%)	10	1.1	1.1	1.3
SD (%)	10	0.14	0.05	0.12
CV (%)	10	13.5	4.3	9.1

HbA2

	Number of Replicates	Control Material	Diluted Blood	Whole Blood
Mean (%)	10	5.4	5.6	5.8
SD (%)	10	0.11	0.07	0.11
CV (%)	10	2.1	1.3	1.8

G7 Consumables

Catalog #	Description
019327	G7 Automated HPLC Analyzer including sample loader and BCR and ABC
019509	Sample Cup Adapters for bar coding
018581	Sample Cups - 1000/pkg
992133	HbA1c Tosoh Controls - 8 x 0.5 mL (Two levels)
018767	HbA1c Tosoh Calibrator Set - 5 x 4 mL (Low & High)
019563	Thermal printer paper - 10 rolls/pkg
019506	Filter Element (5/bag)
019552	Elution Buffer No. 1 (800ml x 1)
019553	Elution Buffer No. 2 (800ml x 1)
019554	Elution Buffer No. 3 (800ml x 1)
018431	Hemolysis & Wash Solution (2 liter)
019680	TSK gel G7 Variant HSi Column (1 each)
018432	Sample Rack (SYSMEX® 16mm 10 tests)
018496	Sample Rack Adapter Ring (SYSMEX® 12mm/10pl)
018433	Sample Rack Adapter Ring (SYSMEX® 13mm/10pl)
018497	Sample Rack Adapter Ring (SYSMEX® 14mm/10pkg)
018723	Supply Line filter for buffer lines



G7 β-Thalassemia Mode Consumables

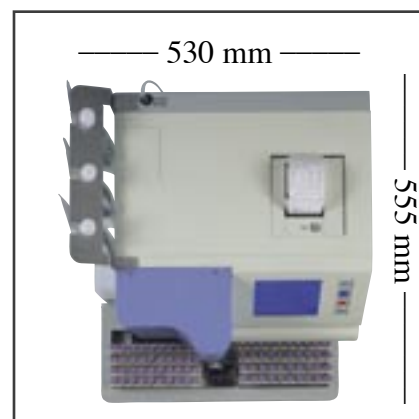
997050	Tosoh Hb A2 and F Controls	8 x 0.5 mL (Two levels)
020019	Tosoh β-Thalassemia Calibrator Set	4 x 0.2 mL
019682	β-thal Elution Buffer Kit*	
018431	Hemolysis & Wash Solution (2 liter)	
019681	β-thal TSK gel HSi Column (1 each)	



* Kit includes 800mL bags X 10 (3 of buffer 1, 4 of buffer 2, and 3 of buffer 3)

G7 Operating Specifications

Measurement Principle	Ion-exchange high performance liquid chromatography
Detector unit	LED colorimetric detector
Peaks resolved-SA1c	SA1c, LA1c, A1a, A1b, HbF, HbAO and H-V0-2
Peaks resolved-β-thal	A2, F, A0, S, D, C
Throughput-SA1c	2.2 minutes per sample
Throughput-β-thal	7.5 minutes per sample
Sample requirement	
Whole blood	3uL
Dilution	150uL
Dead Volume	
Whole blood	Primary tube 1 mL
Whole blood	Sample cup 75uL
Dilution	Sample cup 400uL
Sample tubes or cups	16 x 75-100 12 x 75-100, 13 x 75-100, 14 x 75-100 (all adapters available)
Display & Output	Liquid crystal display, Touch panel and keys
Communication	RS 232C Serial bi-directional, Host Query
Power	100V AC, 50/60Hz, 160VA, 15A
Column Temp	25°C
Room Temp	15-30°C
Dimensions	21 inches W x 22 inches D x 19 inches H
Weight	Main Unit 85 lbs 90 Sample Loader 25 lbs



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