

KEY SPECIFICATIONS

Model	ULTRA C20
Method	Ion Exchange HPLC
Parameters (Variant mode)	HbA0, HbA1a, HbA1b, HbA1c, LA1c, HbF, P3, eAG, HbA2, HbD, HbC, HbS & HbE
Sample Type	EDTA (Whole Blood/Pre-diluted)
Sample Volume	Whole Blood-5µl / Pre-diluted-500µl
Throughput	Fast: 90 Seconds/Test Fast Variant: 115 Seconds/Test Variant: 150 Seconds/Test
Auto Loader	20 Sample Capacity, Continuous Loading
Reagent Kit	Eluent A, B, C, Hemolysis Reagent, Filter & Paper Roll
Working Conditions	Temperature: 15–30°C Humidity: 30–85%
Linearity	3–18%
Precision	CV <2%
Column Capacity	Fast: 6,000 Tests Fast Variant: 4,000 Tests Variant: 3,000 Tests
Wavelength	420nm (Primary), 600nm (Secondary)
Dimensions (W × D × H)	378mm × 380mm × 510mm

ORDERING INFORMATION

Category	Products	Contents	Cat. No.
Analyzer	ULTRA C20 HPLC Analyzer	1 Unit	RK373-01
Reagent	ULTRA C20 HbA1c Variant Reagent	300T x 2	RK370-600
Control	ULTRA C20 Control	Lv1 x 3 / Lv2 x 3	RK375-03
Calibrator	ULTRA C20 Calibrator	Lv1 x 3 / Lv2 x 3	RK374-03
Column	ULTRA C20 HPLC Column	1 Kit	RK376-03

ULTRA C20 HPLC Analyzer



- Gold Standard Ion Exchange HPLC
- 3 Flexible Test Modes
- 20 Sample Continuous Auto Loader

ABOUT ULTRA C20

ULTRA C20 is a fully automated walk-away HPLC system with a throughput of 90 sec per test. Its 20 sample continuous auto-loader, auto-cap piercing, and built-in barcode scanner ensure efficient operation across all workload settings. A smart touch screen interface with inventory management simplifies operation. Supporting three testing modes without changing the column or reagents, the system offers maximum flexibility.

1



High Throughput & Cost Efficiency

- 90~150 Seconds/Test
- 3,000~6,000 Test/Column*
- Multiple modes with seamless switching

2



Fully Automated Operation

- Built-in Barcode Reader with LIS Connectivity
- Continuous loading with a 20 sample auto loader
- Primary tube sampling with cap piercing

3



Easy Reagent Handling

- 300x2 Tests/Reagent Pack
- 24 months unopened reagent shelf life

4



Smart & User-Friendly

- One Touch Operation
- 10" User-Friendly LCD Display

ONE DEVICE, THREE MODES

- Simplified HPLC with seamless mode switching.
- No need to change reagents or columns.

FAST MODE

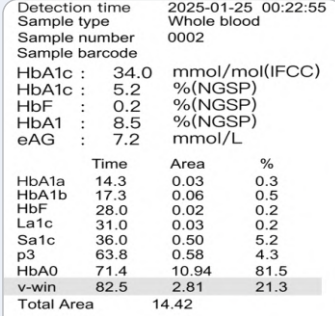
Quick Results for
Routine Needs



- ✓ Only adult hemoglobin fraction.
- ✓ HbA0, HbA1a, HbA1b, HbA1c, LA1c, HbF, P3, eAG

FAST VARIANT MODE

Extended Insights
for Better Diagnosis



- ✓ V-win
- ✓ HbA0, HbA1a, HbA1b, HbA1c, LA1c, HbF, P3, eAG, V-win

VARIANT MODE

Comprehensive Profiling
for Specialized Cases



- ✓ All variants were identified
- ✓ HbA0, HbA1a, HbA1b, HbA1c, LA1c, HbF, P3, eAG, HbA2, HbD, HbC, HbS, HbE.

PERFORMANCE DATA

INTRA-ASSAY REPEATABILITY

	LOW	MIDDLE	HIGH
MEAN	5.2	6.5	9.3
S.D.	0.04	0.04	0.05
C.V.%	0.8%	0.7%	0.6%

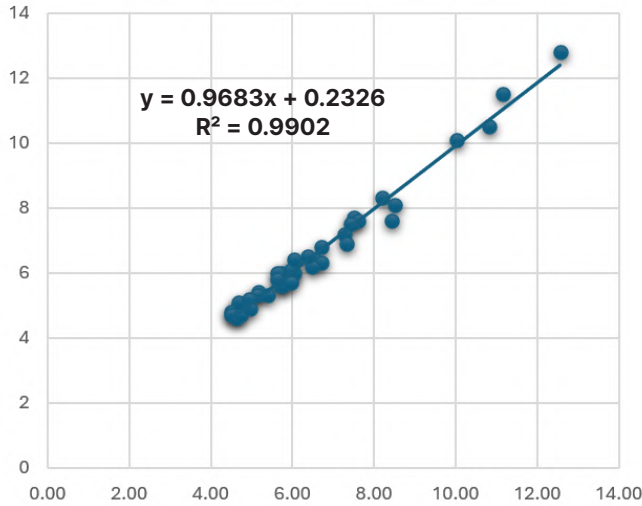
INTER-ASSAY REPEATABILITY

	LOW	MIDDLE	HIGH
MEAN	4.9	6.3	8.8
S.D.	0.04	0.05	0.05
C.V.%	0.08%	0.08%	0.06%

Precision CV <2%

Deviation ±2 from mean

Method Comparison



Linearity: 3%-18%

Regression value 0.99

* May vary depending on usage mode