

SPECIFICATIONS

Instrument

Product name		B-analyst			
Detection wavelength		635 nm			
Detection stability		± 0.001 Abs.			
Incubation temperature		37.0 ± 1.0 °C			
Interface		For data input - output x 1 For bar code reader connection x 1			
Display		20 rows x 4 columns monochrome LCD			
Printer		Built-in thermal printer (paper width: 58 mm)			
Data memory		For recording measurement results of latest 100 samples			
Calendar clock		Built-in (backup battery CR2032)			
Electrical characteristic	Voltage	AC100 - 240 V			
	Supply frequency	50/60 Hz			
	Power input	250 W			
Condition of use	Temperature	15 - 30 °C			
	Humidity	30 - 80 %			
Size / Weight		340(W) × 290(D) × 270(H) mm / 9.5 kg			

Reagent Chip

Product name	B-analyst HbA1c	B-analyst CRP	B-analyst hsCRP						
Measurement time	7'30"								
Sample	Whole blood	Whole blood · Plasma · Serum	Whole blood · Plasma · Serum						
Sample volume	4 μL	4 μL	9.5 μL						
Measurement method	Latex agglutination immunology turbidimetric method								
Measurement range	3.3 - 12.6 %	0.1 - 20.0 mg/dL	0.01 - 4.00 mg/dL						
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Size





μTAS Single Drop Analyzer
HbA1c | CRP | hsCRP



B-analyst µTAS Single Drop Analyzer HBA1c CRP HSCRP

Biochips based on semiconductor and manufacturing expertise

Biochips utilize a combination of microfluidics, microfabrication, design, and optical technologies. Microchannels allow chemical reactions to occur in an extremely small space via reagents.

Next, sensing technology enables accurate detection of target biomarkers using a trace amount of blood. Biochips such as these are expected to play a major role in health care and medical testing in the future.





B-analyst realizes rapid and high accuracy measurement with only a drop of blood by utilizing µTAS and liquid reagents.

Simple Operation

B-analyst performs measurement from plasma separation to data output with a drop of blood in 7min 30sec. The measurement is completed by following steps.



Sting the fingertip or earlobe with a lancet device.



Collect whole blood using the exclusive capillary. Only 4.0-9.5µL of blood/test is needed.



Insert the capillary into the chip.



Mount the chip into the instrument.



Press the start button.



Result is printed in 7min 30sec.



2 High Accuracy

High correlation to reference methods.

Reliable measurement result can be provided.

Easy Maintenance

Cleaning and washing are not required.

Calibration curve data corrected via 2D barcode.

Measurement item	HbA1c (%)			CRP (mg/dL)			hsCRP (mg/dL)		
Sample	WB(L)	WB (M)	WB (H)	Control (L)	Control (H)	WB	Control (L)	Control (H)	WB
MEAN	5.2	7.0	8.5	0.3	1.4	4.1	0.24	1.51	0.45
S.D.	0.05	0.05	0.04	0.00	0.04	0.05	0.016	0.029	0.013
C.V. (%)	1.0	0.8	0.5	0.0	3.1	1.3	6.59	1.95	2.96

Measurement Data (internal data)





