



BAS-10

Semi-auto Chemistry Analyzer

Accurate Diagnosis



Product Features



Reliable Results

- Accurate hardware
- High accuracy and precision
- Minimum sample consumption
- Real-time display of reaction curve



Easy Operation

- User friendly software
- Multiple external interfaces
- 7-inch color touch screen
- Built-in incubation position



Smart System

- Easy maintenance
- Comprehensive quality control program
- Customized testing items supported
- Storage up to 100,000 records



Compact Design

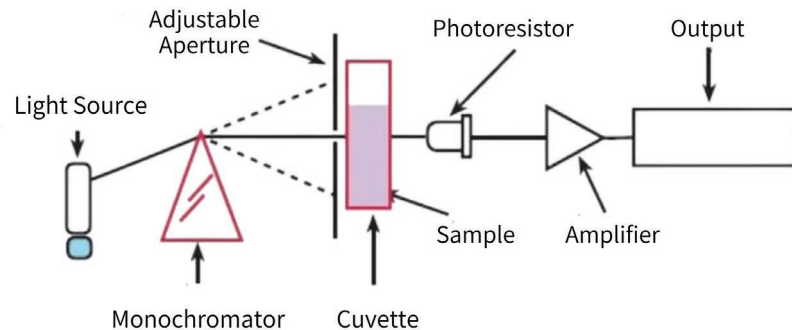
- Suitable for various detection sites
- Integrated design, no need for additional auxiliary instruments



Technical Advantages

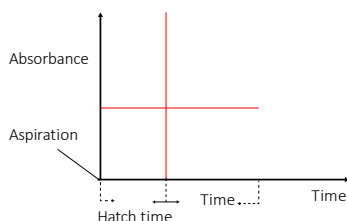
Beer-Lambert Law - Reliable Colorimetric Principle

- The Beer-Lambert law is a relationship between the attenuation of light through a substance and the properties of that substance.
- This technology is based on evaluating absorption when light travels through a cuvette containing a sample. The Beer-Lambert law states that there is a linear relationship between the concentration and the absorbance of the solution, which enables the concentration of a solution to be calculated by measuring its absorbance.
- Therefore, the Beer-Lambert law can be used to calculate the concentration of a sample and is frequently used in absorption and transmission tests on samples.

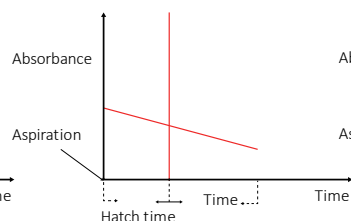


Principle of Colorimeter

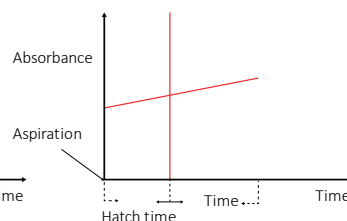
- BAS-10 Semi-auto Chemistry Analyzer serves multiple calculation methods, according to different test items, and shows reaction curve in real time as follow:



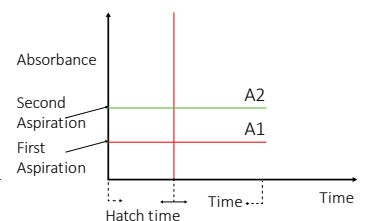
End Point Reaction Curve



Rate Method Reaction Curve



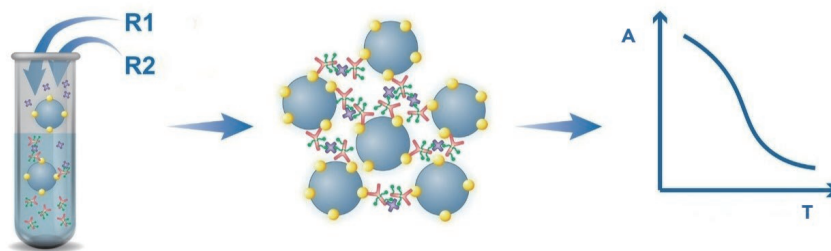
2-Point Reaction Curve



2-Point End Reaction Curve

High Sensitivity Turbidimetric Immunoassay

- Turbidimetric immunoassay is based on measuring the turbidity of a sample to determine the level of an analyte. This method is commonly used to quantify antigen-antibody complexes. The formation of antigen-antibody complex increases the turbidity of the sample. When light passes through the reaction solution, part of the light is scattered by the sample, part of the light is absorbed by the sample, and the rest of the light passes through the sample. The concentration of protein antigen in the sample is determined by measuring the absorbance of light from a sample.



Test Parameters

Hepatic Function

ALB TP ALP AST (GOT) ALT (GPT) GGT DB TB

Kidney Function

CREA UA UREA

Cardiac Biomarker

CK CK-MB HBDH LDH

Inorganic Ions

Ca Cl Fe K Mg Na P

Blood Lipids

CHOL TG HDL LDL ApoA1 ApoB Lp(a)

Others

AMY GLU



Specifications

Analysis methods	Endpoint method, rate method, two-point method, multi-standard method, dual-wavelength method, two-point endpoint method.
Filter	340 nm, 405 nm, 450 nm, 510 nm, 546 nm, 578 nm, 630 nm, 670 nm (optional)
Temperature Control	Pre-incubator 37 °C, colorimetric incubation system 25 °C, 30 °C, 37 °C and room temperature
Absorbance Range	0~4.0 A
Absorbance Accuracy	0.0001 A
Sample Volume	1 µL- 5000 µL
Sample Type	Serum, plasma, urine, cerebrospinal fluid
Colorimetric Mode	Flowcell cuvette
Calibration	Factor, linear-1P, linear-2P, 3-point non-linear, 4-point non-linear, 5-points non-linear
Interface	Equipped with standard USB interface
Output	Built-in thermal printer or external printer
Sleep Function	Set the sleep time of the halogen lamp to extend its service life.
Storage	100,000 tests
Power Supply	DC 12V 6A
Dimensions	340 mm (L) * 260 mm (W) * 142 mm (H)
Weight	4.6 KG





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