BS-240

Fully Auto Clinical Chemistry Analyzer

BS-240

CE
Certified

Very Accurate

- Fully Automated, Compact, Discrete & Random access analyzer
- Throughput upto 200 Tests/Hour – upto 400 tests/hour with ISE.
- Flexible Loading up to 40 Samples & 80 Reagents positions (40 Interchangeable)
- 4 Stages 8 Steps washing system with Pre-warmed Detergent & Deionized water

Very Efficient

Very Smart

- Minimum 100µl Reaction Volume
- Unique Smart sampling technology for HbA1C Whole blood testing
- Automatic Post & Pre dilution for samples
- Unique Reflex & Twin Chemistries function
- Vertical collision protection & Liquid level detection

- Refrigerated Compartment for both Samples & Reagents
- In-Build Barcode reader
- Water Consumption : ≤ 4L/H
- Bi-Chromatic testing to avoid interference
- Supports 9 Different Calibration Rules & 5 Different QC Rules

BS-240
Clinical Chemistry Analyzer

Technical Specifications

System function
Automatic, Discrete, Random Access, Bench-top
STAT sample priority

Throughput : Up to 200 tests / hour, up to 400 tests / hour with ISE

Measuring principles : Absorbance photometry, Turbidimetry, Ion Selective Electrode technology (Optional)

Methodology : End-point, Fixed-time, Kinetic, optional ISE, Single / Dual / reagent chemistries, monochromatic / bi-chromatic

Original system pack reagent ready to use

Reagent / Sample Handling
Reagent / Sample tray : 80 positions for Reagents (40 inter changeable) and 40 positions for Samples in 24-hour Refrigerated compartment (2-12°C)

Reagent volume : 10~250µl, step by 0.5µl

Sample volume : 2~45µl, step by 0.1µl

Original Reaction Data Record : Bi-Chromatic testing to avoid interference Simultaneous display Primary & Secondary wave length

Reagent / Sample probe : Liquid level detection, Vertical collision protection and Inventory checking, Reagent pre-warming

Probe cleaning : Automatic washing for Interior and Exterior, Carry over < 0.05%

Automatic sample dilution : Pre-dilution and Post-dilution

Internal bar code reader used for Sample and Reagent programming

Applicable to various Barcode systems of Codabar, ITF (Interleaved Two of Five), code 128, code39, UPC/EAN, Code93

Capable to communicate with LIS in Bi-directional mode

Reaction System :

Reaction rotor : Rotating tray, containing 40 cuvettes
Cuvette : Reusable, optical length 5mm, Reaction volume : 100~360µl
Operating temperature : 37°C, Temperature fluctuation : ± 0.1°C

ISE Module (optional) : Measuring K+, Na+, Cl-

Mixing Unit : Independent mixing bar
Cuvette Washing : 4 stages 8 steps Washing station with pre-warmed detergent and Deionised water

Optical System

Light Source : Halogen-tungsten lamp
Wavelength : 8 wavelengths, 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 670nm

Absorption range : 0~4.0 Abs (10mm conversion), resolutions 0.0001 Abs

Stray Light : 5.6 Abs

Control and Calibration

Calibration modes : Linear (One point, Two points and Multi-points) Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial, Parabola

Control Rules : X-R, L-J, Westgard multi-rule, Cumulative sum check, twin plot

Operation Unit Operation System : Windows 8, Interface : RS-232

Working Conditions

Power Supply : 200-240V, 50/60Hz≤1000VA or 100~130V, 60Hz, ≤1000VA

Dimension : 690 mm (length) x 580 mm (depth) x 595 mm (height)

Weight : 79 kg, Water Consumption : ≤ 4 L/H

100µL minimum reaction volume

4 Stages 8 Steps washing system

VeriSmart software

Unique Reflex & Twin Chemistries Function

Hemolysate Sampling Tech. - HbA1C

Redefined Carry over function