

Automated Chemistry Analyser
BX-3010

Compact. Competent.
Cost Efficient



The most Compact and Cost Efficient Solution for your Chemistry Testing

The Automated Chemistry Analyser, BX-3010 with a throughput of up to 404 tests per hour, is the ideal choice for low-to mid-volume laboratories or as a dedicated analyser for HbA1c testing.

Specially designed for laboratories to deliver rapid reports for diabetic patients in monitoring their glycemic status, the BX-3010 comes with on-board haemolysis function for HbA1c testing as well as the capability to measure both the HbA1c and plasma glucose tests from the same sample tube.

Combined with high efficiency, accurate results, user friendly operation and low running cost, the BX-3010 enables even small laboratories to enjoy the benefits of advanced technology seen in a high throughput analyser.

Accurate Results

- Clot detection system and serum indices testing assure sample integrity.
- Sample barcode reader ensures positive sample identification.
- Cooled reagent compartment (8°C to 15°C) maintains quality of reagent.
- Comprehensive QC program helps laboratory to monitor the analyser performance.



QC Screen

User Friendly Operation

- Easy operation with intuitive icons.
- Colour-coded indicator gives a quick overview of different tests on-board with information on remaining tests and expiry dates.
- Real-time results status detailing the time to completion of test helps in time management.



Monitoring screen

Increased Efficiency

- Automated start-up and before sleep operation optimises technologists on-site working hours.
- Automated on-board sample dilution, re-run and reflex testing functions realises walk away operation.
- Reagent barcode reader allows random loading of reagents.
- STAT Lid ensures urgent sample can be loaded and analysed right away.

Low Running Cost

- Dry incubation bath minimises maintenance.
- Hard glass cuvette reduces replacement cost.
- Low volume reagent requirement, 20µL-250 µL.
- Low water consumption, 5 liters per hour.

Accurate and Convenient HbA1c testing

- Innovative HbA1c reagent based on enzymatic method shows no interference with known haemoglobin variants ensuring accurate results on every patient sample.
- On-board haemolysis saves the hassle of manual pre-analytic sample.
- Measurement of HbA1c and plasma glucose tests from the same sample tube reduces the number of sample tubes required.

Features of BX-3010

1



Incubation Reaction Unit

72 cuvettes - semi-permanent glass type, maintained at $37\pm 0.1^{\circ}\text{C}$ in dry incubation bath for test reaction to take place.

2

Reagent Pipette Unit

Liquid level sensor detects reagent level to provide the number of tests on board.



3



Stirrer Unit

2 metallic stirrers with 5 mixing speeds allow proper mixing of sample and reagent within the cuvette.

4

Reagent Compartment

Detachable reagent tray holds maximum 50 bottles, maintained at a constant temperature between $8-15^{\circ}\text{C}$. Equipped with reagent barcode reader.





5

Washing Unit

12-step washing mechanism for optimal cleaning of cuvettes.



6

Sample Pipette Unit

Liquid level and clot sensors reliably detect sample level and clots. Extra cleaning procedures programmable for HbA1c measurement.



7

Sample Compartment

Detachable sample tray holds maximum 40 sample tubes and 10 sample cups. Equipped with barcode reader for easy and correct input of sample ID.



STAT Lid

Lid provides access to any position in the outer tray for emergency testing.

8

ISE Unit (optional)

Direct measurement of Na⁺, K⁺ and Cl⁻.

Only requires 83µL of sample.



Broad Portfolio of Chemistry Reagents

In collaboration with DiaSys, Sysmex offers a comprehensive range of high quality chemistry reagents for the BX-3010. Tests available include cardiac, lipid, renal, diabetes and liver profiles.

DiaSys Diagnostic Systems has been a leading specialist in the development and manufacturing of diagnostic system solutions for more than 20 years.

Benefits of DiaSys Reagents:

- Stable, ready-to-use liquid reagents
- Long on-board stability and calibration stability
- Minimised interferences with lipid clearing system
- Standardised to international reference material/methods
- Barcoded reagents with multi-calibrator and control for easy handling



Specifications

Throughput (test/hr)		404
		270 (w/o ISE)
		90 (HbA1c test only)
Parameters (simultaneous analysis)		50 + 3 (with ISE) with on-board haemolysing for HbA1c testing
Reagent	Position	50
	Volume	20 µL – 250 µL
	Barcode Reader	Yes
Sample	Position	50 (40 tube-holders, 10 cup-holders)
	Volume	1.5 µL – 35 µL (photometric assay) 83 µL (ISE)
	Level Detection	Yes
	Clot Detection	Yes
	Barcode Reader	Yes
Reaction	Incubation Bath	Dry bath
	No. of Cuvette	72
	Cuvette Type	Hard glass/Pyrex
	Reaction Volume (total)	100 µL – 350 µL
	Mixing	metallic stirrer with 5-speed levels
	Photometric Range	0 - 2.5 Absorbance
	Wavelength	12 wavelengths (340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750, 800nm)
System	PC Operating System	Windows 10
	Host Interface	RS232C
	Results Storage	1,000,000 tests
	Water Consumption	Max. 5 Litres/hour
	Dimension (WxDxH)mm	870 X 670 X 625
	Weight (kg)	120

Design and specifications may be subject to change due to further product development.

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