

JCA-BM6010/C

Automated Chemistry Analyser

Optimise Performance.
Achieve Accurate Results.



Superior Performance and Efficiency

Now you can rely on the compact JEOL JCA-BM6010/C Automated Chemistry Analyser to help you achieve faster turnaround time with better accuracy.



Auto Start-Up:

Auto Start-Up ensures the analyser is ready when you step into the laboratory.

Smart Start / Smart Pause:

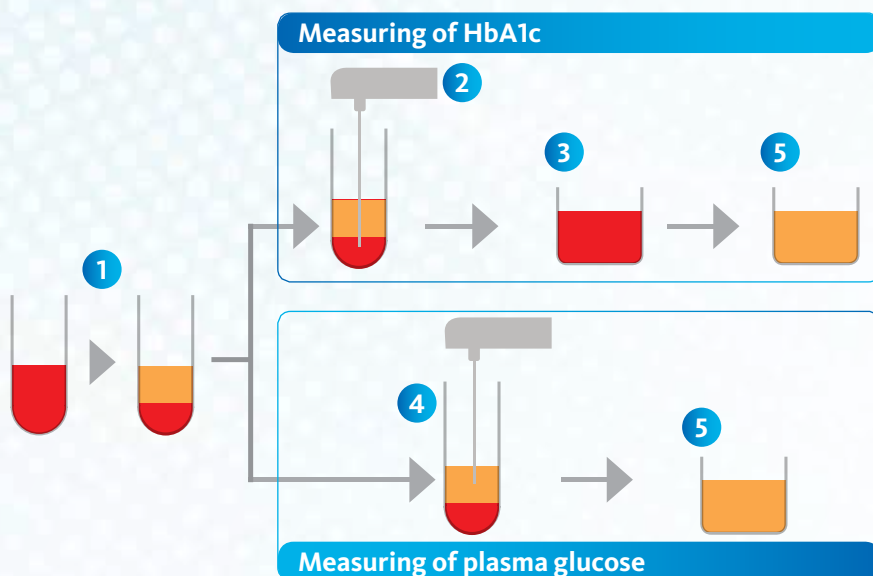
Analyser automatically pauses and restarts sample analysis and barcode readings ensuring continuous loading of additional samples.

Automated on-board haemolysing:

Automated on-board haemolysis for HbA1c allows for walk-away analysis.

Simplified HbA1c testing

Improve efficiency of diabetes testing with unique methodology of serial HbA1c and plasma glucose measurement



Procedure for HbA1c and plasma glucose measurement:

- 1 Centrifuge the sample
- 2 Aspiration of blood cells by sample probe for HbA1c analysis
- 3 Haemolysis of blood samples in reaction cuvette
- 4 Aspiration of plasma by sample probe for glucose analysis
- 5 Reagents are added to the reaction cuvettes and results are generated

Features of JCA-BM6010/C



ISE Unit

- Indirect simultaneous measurement of Na^+ , K^+ and Cl^- enables up to 30,000 tests each
- Easy-to-replace electrodes improve operator efficiency
- Efficient washing minimises crystallisation of electrodes ensuring reliable results



STAT Port

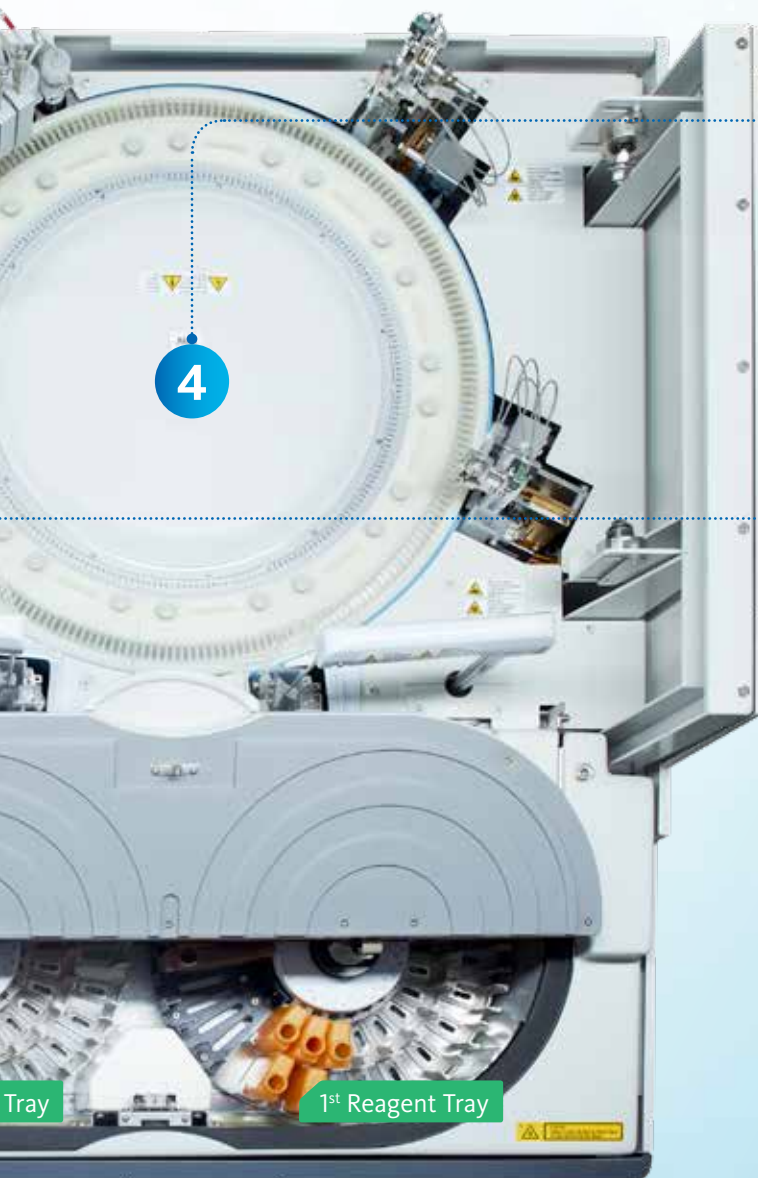
Allows easy loading and barcode identification for urgent samples





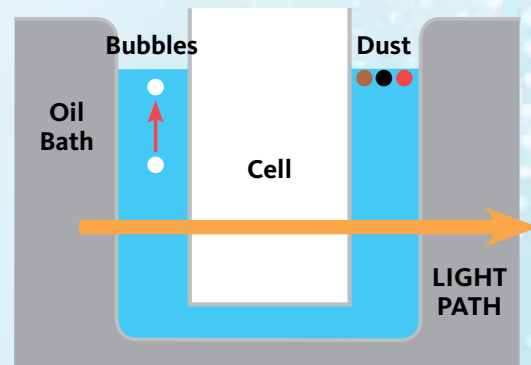
Cell Cleansing

- Wide contactless draining nozzle in wash unit prevents cuvette carryover
- Cell conditioner reduces surface tension during cell blank measurements for accurate assessment of samples
- Auto-skip function will be triggered in case of failure during automatic cell blank



Oil Bath Incubation

- Homogeneous incubation temperature within reaction carousel enables a stable light path and ensures reliable data quality
- Inert oil prevents water stains, bubbles and dust; reducing the need for maintenance



V-Block Probe Wash

Specially designed V-Block performs thorough cleansing ensuring minimal probe carryover and reduced cross-contamination between runs



Broad Portfolio of Chemistry Reagents

In collaboration with DiaSys, Sysmex offers a comprehensive range of high-quality chemistry reagents for the JCA-BM6010/C.

Wide range of test profiles supporting comprehensive Cardiac, Lipid, Renal, Diabetes and Liver assessments.


DiaSys Diagnostic Systems has been a leading specialist in the development and manufacturing of diagnostic system solutions for more than 25 years.

Benefits of DiaSys Reagents:

- Stable, ready-to-use liquid reagents
- Lengthy on-board and calibration stability
- Minimised interferences with Lipid Clearing System
- Standardised to International Reference Material/Methods
- Barcoded reagents with multi-calibrator and controls for easy handling



JCA-BM6010/C Specifications

Model Name	Automatic Analyser JCA-BM6010/C
Measurement Principle	Colorimetry (Rate/End Point) Turbidimetric Immunoassay ISE (Indirect), simultaneous 3 item measurement Na ⁺ , K ⁺ , Cl ⁻
Throughput	Total: Maximum 1200 Tests/Hour Photometric: Maximum 800 Tests/Hour ISE: Maximum 600 Tests/Hour
Sample Throughput Rate	Maximum 800 Samples/Hour Maximum 400 Samples/Hour for dedicated HbA1c testing (due to haemolysis step)
Simultaneous Measurement	Maximum 50 assays (53 assays with ISE) Measurement wavelengths: 340 to 884 nm
Sampling	
Sample Tray	STT: 84 Sample Positions with in-built Barcode Reader (Class 2 Laser) CTT: 61 Refrigerated Sample Positions
Lab Automated Sampler	Point-in-space Sampling for LAS
Sample Dispensing Volume	1.0 to 25 µL
Dilutions	1:1 to 1:300 (1:1 to 1:200 for HbA1c measurement)
Sensors	Liquid-Level Sensor, Clot Sensor
Reagent	
Reagent Dispensing	1-3 Part Reagent Capability
Reagent Tray	2 Refrigerated Trays with Built-in Barcode Reader (Class 2 Laser) 45 positions per tray
Reagent Container	20mL, 40mL and 70mL
Reagent Volume/Assay	5 to 300 µL (0.1 µL/step)
Reaction Carousel	
Reaction Cuvette	Plastic, Light-path length: 10mm
Reaction Volume	80 to 430 µL
Reaction Time	3, 4, 5, 10 and 15 minutes (can be set per assay)
Reaction Temperature	37± 0.5 °C
Reaction Bath	Temperature-controlled reaction bath with inert oil
Mixer	SSR-Spin Mixer
System	
Maintenance	Automatic startup and shutdown by timer
Workstation	PC, LCD color monitor
Host Interface	RS232C
Dimension	1,220 (W) x 850 (D) x 1,108 (H) mm
Weight	450 kg
Laser Label	 <p>The image shows a yellow triangular warning label with a black border. Inside the triangle is a black silhouette of a laser beam. To the right of the triangle is a rectangular label with a black border containing the following text: 'LASER RADIATION DO NOT STARE INTO BEAM', 'Maximum output 1.0mW', 'Pulse duration 112µs', 'Emitted wavelength 650-660nm', 'CLASS 2 LASER PRODUCT', and 'in conformity to IEC60825-1:2007-03'.</p>

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Sysmex is an authorised distributor of JEOL in Asia Pacific Region