

BS-800 Modular System

Clinical Chemistry Solution

Total Solution for Clinical Chemistry

BS-800 Modular System combines innovation and high performance into an integrated solution. With a scalable platform, an ever more complete line of clinical chemistry reagents, as well as calibrators and controls, our new solution is tailor-made to customers’ needs. Our innovative technologies also ensure the solution is accurate, convenient and cost-efficient.

Modular System

BS-800

Throughput: 800T/H, 1200T/H with ISE

Sample capacity: 140

Reagent capacity: 68



BS-800M

Throughput: 800T/H, 1200T/H with ISE

Sample capacity: 440

Reagent capacity: 68



Throughput: 1600T/H, 2400T/H with ISE

Sample capacity: 580

Reagent capacity: 136



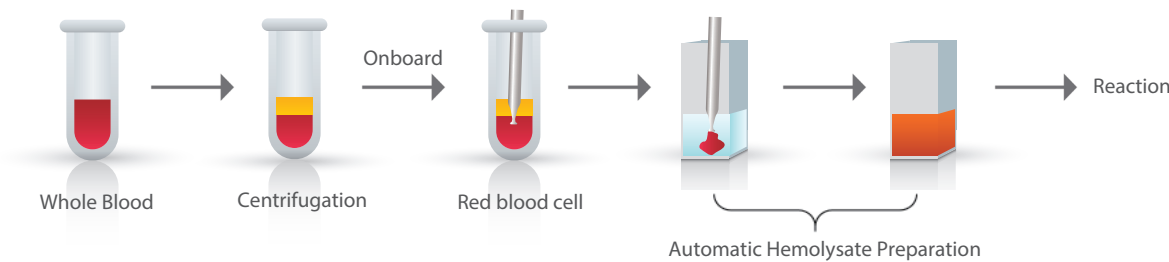
Upgradable to SAL 6000

One integrated workstation for both clinical chemistry and chemiluminescence immunoassay



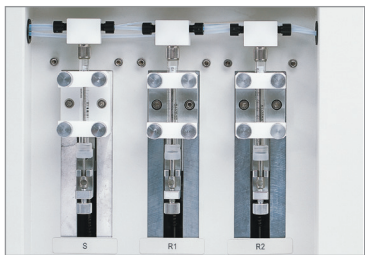
HbA1c Smart-sampling Technology

BS-800 modular system utilizes HbA1c smart-sampling technology, which allows onboard hemolysis for whole blood samples, thus achieving shorter turnaround time (TAT) and eliminating any biohazardous risks or any errors by manual operation.



Mindray HbA1c assays of enzymatic method, with application of specified protease and Fructosyl Peptide Oxidase (FPOX), has a good correlation with HPLC method. The enzymatic method is proven to have high precision, specificity and better performance to avoid interference from hemoglobin variants, and it is traceable to IFCC/NGSP reference methods.

Accurate



- **High pipetting precision**
15~300 μ L reagent with step at 0.5 μ L, 1.5~35 μ L sample with a step at 0.1 μ L.



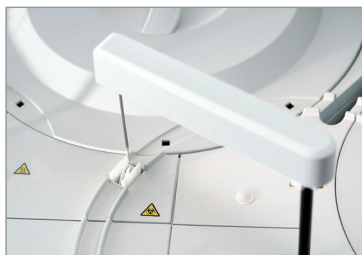
- **Coolant circulation reagent refrigeration**
Ensure a stable refrigeration temperature at 2~8°C in the reagent disk.



- **Direct solid-heating system**
Fast heating of reaction disk while the temperature is kept at 37°C with 0.1°C fluctuation.



- **Effective mixing unit**
Independent reagent and sample mixing units; three-head mixing bars speed up process performance. The two-step washing significantly reduces potential contamination.



- **Intelligent clot detection**
Can detect and differentiate between a clot, partial clot, and bubbles ensure precise sample aspiration.

Preventive



- **Collision protection**
Vertical, horizontal sample and reagent probes collision protection.



- **Waterproof design**
In the event of liquid splash, the liquid is redirected away from all electronic components with the specially designed cover.

Maintenance					
Maintenance List		CC Maintenance		ISE Maintenance	
Frequency	Item	Frequency	Item	Frequency	Item
Daily	Check Sample Probe/Reagent Probe/Mixer	Weekly	Check Wash Water	Monthly	Check Sample/Reagent Syringes
Weekly	Check Wash Water	Two-week	Check Deionized Water	Three-month	Check Concentrated Wash Solution
Monthly	Check Sample/Reagent Syringes	Quarterly	Check Wash Water	Six-month	Check Deionized Water
Quarterly	Check Wash Water	Half-yearly	Check Concentrated Wash Solution	Other	
Half-yearly	Check Concentrated Wash Solution				
Other					

- **Maintenance guide**
Easy to follow maintenance procedures, with embedded troubleshooting guides. Users may resolve issues quicker.



- **Covered system**
The pipetting system is covered to ensure safety. The sample disk is flexible to be partially covered only allowing convenient access during sample loading.

Warning Log				
Event ID	Date/Time	Error Description	Event Class	Symptom

- **Warning log**
Extensive log lists alerts operator and service personnel to maintain the system.



Innovative

Coaxial reagent disk

Unique coaxial reagent disks design making reagent replacement time saving and convenient. The semi-opened cover ensures operator safety during operation.



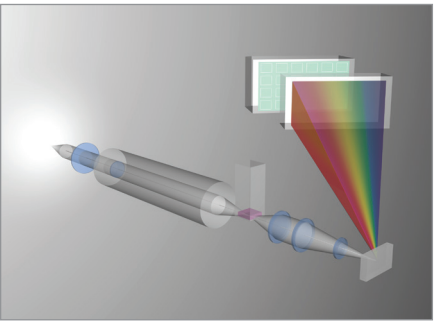
Reagent bubble detection

System provides sufficient reagent aspiration through liquid level and reagent bubble detection technology.



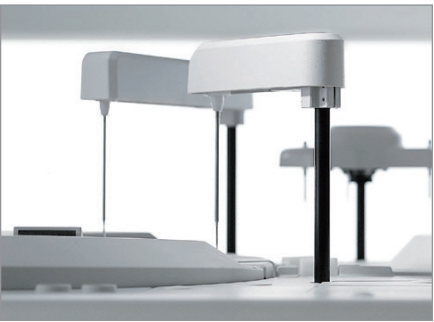
Dot light source

The dual focus of forward lighting is possible via the dual-diaphragm and dual-lens technology which creates a high intensity focused light. Thus, lower the minimum reaction volume and enhance measuring accuracy.



Water quality monitor

The system employs resistance principle. It provides premium DI Water quality for assay analysis and reduces potential contamination.



Cost-efficient

Large capacity

Total sample capacity is 440 (140 positions on the sample tray and 300 positions on the Sample Delivery Module). The Sample Delivery Module automatically delivers samples to the analytical unit. The large sample capacity coupled with 165 washable permanent cuvettes allows the operator hours of walk-away time.



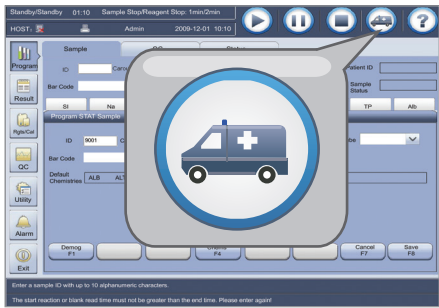
Low reagent consumption

100 µL minimum reaction volume reduces reagent cost. Uniquely designed reagent bottles maximize reagent usage and reduce residual volume.



One key STAT

Dedicated One-Key STAT test button, STAT sample position, and STAT sample rack provide prompt response to the highest priority samples.



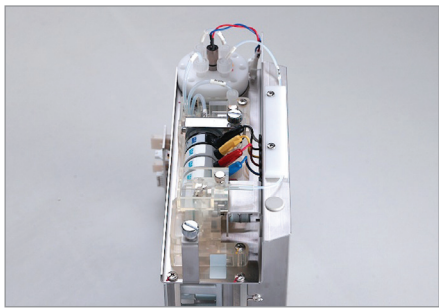
Continuous reagent loading and unloading

Two separate buttons independently control each reagent carousel; it ensures safe and continuous reagent replacement during testing.



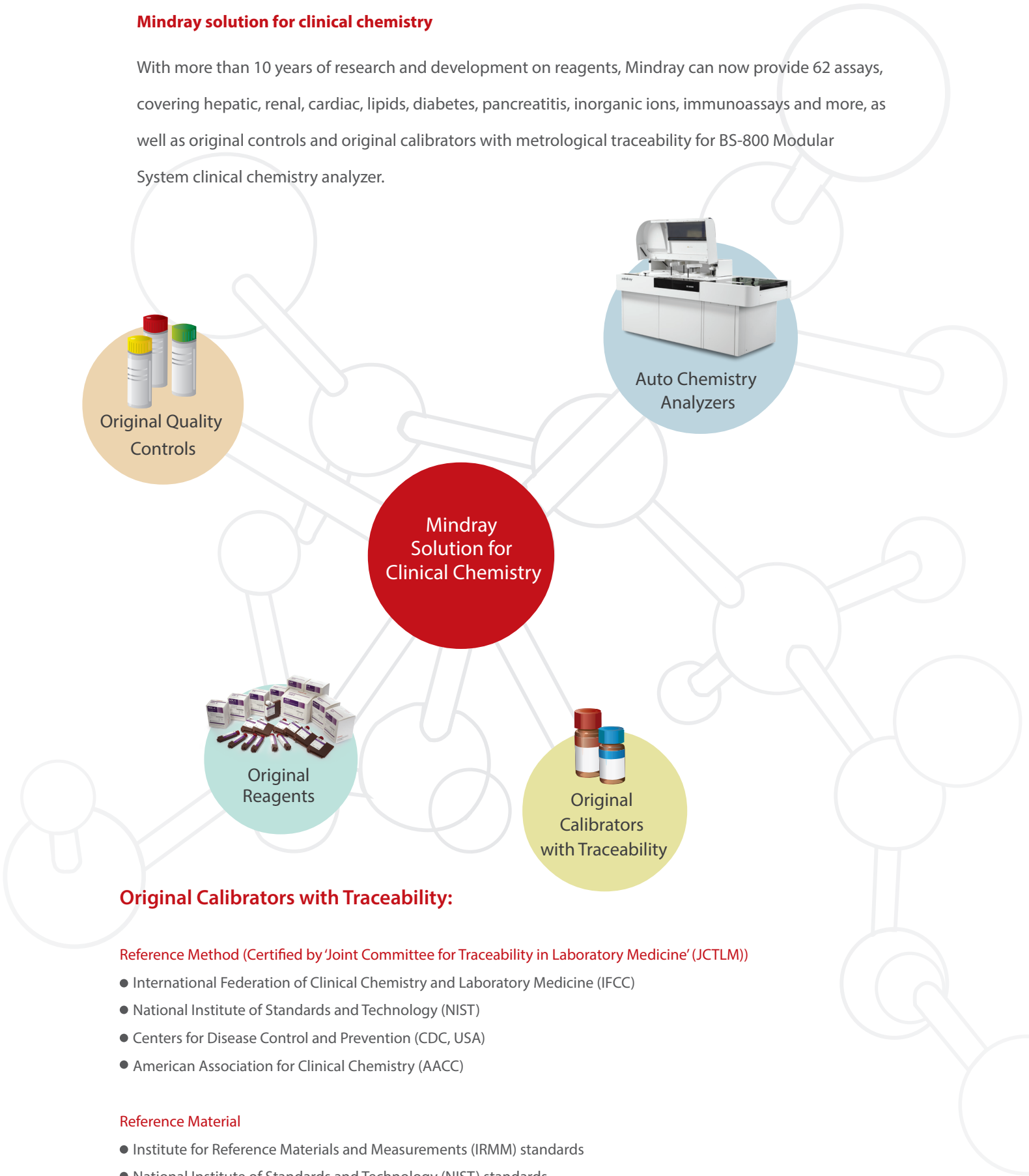
Indirect ISE

Low sample volume, high ISE analysis throughput, and cost-effective electrodes.



Mindray solution for clinical chemistry

With more than 10 years of research and development on reagents, Mindray can now provide 62 assays, covering hepatic, renal, cardiac, lipids, diabetes, pancreatitis, inorganic ions, immunoassays and more, as well as original controls and original calibrators with metrological traceability for BS-800 Modular System clinical chemistry analyzer.



Original Calibrators with Traceability:

- Reference Method (Certified by 'Joint Committee for Traceability in Laboratory Medicine' (JCTLM))
- International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)
 - National Institute of Standards and Technology (NIST)
 - Centers for Disease Control and Prevention (CDC, USA)
 - American Association for Clinical Chemistry (AACC)

Reference Material

- Institute for Reference Materials and Measurements (IRMM) standards
- National Institute of Standards and Technology (NIST) standards
- World Health Organization (WHO) standards
- Japan Committee for Clinical Laboratory (JCCLS) standards