

Technical Specifications

System function

Fully automated, discrete, random access,

STAT, urine and homogeneous immunoassays;STAT sample priority Throughput: 600 photometric tests/hour, up to 770 tests/hour for

Measuring principles: Absorbance Photometry, Turbidimetry Methodology: End-point, Fixed-time, Kinetic, optional ISE

Single/Dual/Triple/Quadruple reagent chemistries, Monochromatic/Bichromatic

Programming: User defined profiles and calculation

Sample Handling

Sample tray: 90 positions for primary or secondary tubes and

sample cups

Sample volume: 1.5~45 μl, step by 0.1μl

Sample probe: Liquid level detection, clot detection and collision

Probe cleaning: Interior and exterior automatic probe washing carry-over < 0.05%

Automatic sample dilution, Pre-dilution and post-dilution

Internal bar code reader (optional)

Sample/Reagent barcode reading – applicable to various bar code systems including Codabar, ITF (Interleaved Two of Five), code 128, code39,

UPC/EAN, Code93; Bi-directional LIS Interface transmission

ISE Module (optional)

Optional selection of K+, Na+, Cl Throughput: Up to 255 tests per hour

Reagent Handling

Reagent tray: 80 positions in refrigerated compartment (2~10°C) Reagent volume: 10~200μl,step by 0.5μL

Reagent probe: Liquid level detection, collision protection and

inventory check, reagent bubble detection

Probe cleaning: Interior and exterior automatic probe washing

Reaction System

Reaction rotor: Rotating tray, 124 cuvettes with automatic

Cuvette: Optical length 5mm Reaction volume: 100~300µl Operating temperature: 37°C Mixing system: 2 independent mixers

Optical System

Light Source: Halogen-tungsten lamp

Photometer: Reversed optics, grating photometry

Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm,

570nm, 605nm, 660nm, 700nm, 740nm, 800nm Absorbance range: 0~3.3Abs (10mm conversion)

Resolution: 0.0001Abs

Control and Calibration

Calibration mode: Linear (one-point, two-point and

multi-point),Logit

-Log 4P, Logit-Log 5P, Spline, exponential, Polynomial, Parabola Control rules: Westgard multi-rule, Levy-Jennings, Cumulative sum check, Twin plot

Operation Unit

Operation system: Window XP Professional or Windows 7

Professional or Windows 8,

Interface: RS-232, Network Port, USB/ parallel port

Working Condition

Power Supply: 220V, 50/60Hz; ≤1700VA

Temperature: 15~30°C

Humidity: 35~85%

Water consumption: ≤28L/H, De-ionized water Dimension: 1190mm(W)*1155mm(H)*720mm(D)

mindray

healthcare within reach

Weight: 300 Kg

BS-600 Chemistry Analyzer





BS-600

Chemistry Analyzer



Easy maintenance

- All containers & maintenance kits are located in the front of the analyzer
- Easily accessible for part replacement, routine maintenance or troubleshooting



 Able to detect bubbles in reagent bottles, as well as detect real liquid level before reagent aspiration







Whole blood HbA1C testing*

- No need pretreatment of the sample
- Proven precision and specificity
- No interference from hemoglobin variants
- Traceable to IFCC/NGSP reference methods

Cost-effective

- Sampling precision up to 1.5μL
- Perfect match between instrumentation and dedicated reagents
- 100µL minimum reaction volume ensures more effective cost per test

Lower carry over

- High pressure washing for interior and water fall washing for exterior
- Carry over < 0.05%

* in development

BS-600

Chemistry Analyzer

Advanced software

User-friendly interface

- Touch screen
- Share the same platform with BS-2000 series and BS-800 series
- Real-time status monitoring between analytical unit and carousels





Convenient R/S continuous loading and offloading

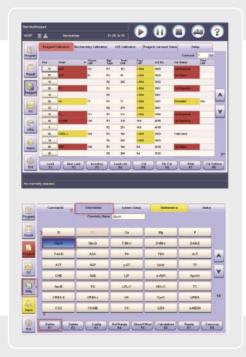
 Remaining time counter makes it easy for operator to follow the instructions

Intelligent reagent management

- · Real-time indicating the test number, inventory and expiry date
- Improve work efficiency

Reflex function

- Pre-defined reflexive assays will be performed automatically when preset criteria is met
- Each assay may involve multiple reflexive criteria
- Each criteria may initiate up to a maximum of 20 relevant assays



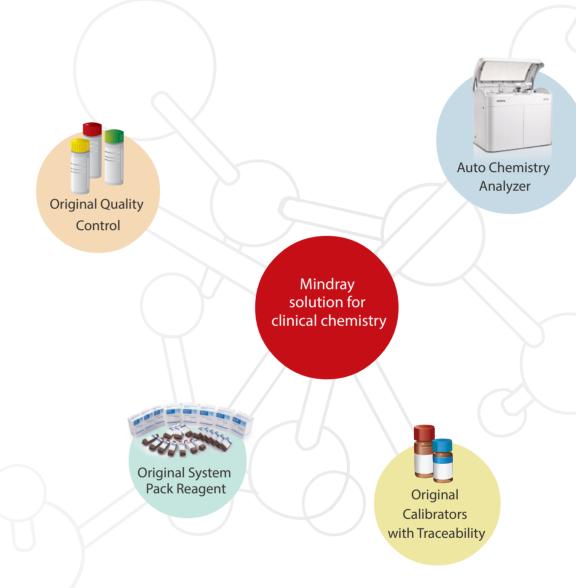


Test Summary

- Test summary report calibration, QC, sample, validation test and rerun tests can be generated
- Facilitate computation of total test costs
- Error Log Export function -facilitate error report to engineers
- Results Archive can be transferred to engineers for evaluation

Mindray solution for clinical chemistry

After more than 10 years of research and development on reagents, Mindray can now provide 61 parameters of dedicated reagents, covering hepatic, renal, cardiac, lipids, diabetes, pancreatitis, inorganic ions and immunoassays, etc., together with original calibrators with metrological traceability as well as controls for BS-600 chemistry analyzer.



Standard reference system

- Adopt JCTLM reference system
- IFCC primary method for enzyme, ID/MS method for substrate
- NIST, IRMM reference materials

JCTLM, Joint Committee On Traceability In Laboratory Medicine

NIST, National Institute of Standards and Technology, USA

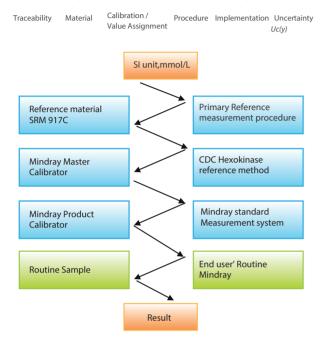
IRMM, Institute for Reference Materials and Measurements, EU

IFCC, International Federation of Clinical Chemistry and Laboratory Medicine

Complete traceability process

Complete calibration hierarchy and traceability chain based on ISO standard (EN/ISO17511) from reference system to routine measurement system

Traceability chain of Mindray measurement system (Glu)

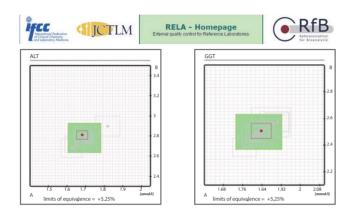


External quality assurance for reference measurement

Mindray participates RELA (External quality control for reference laboratory) and CAP (College of American Pathologists external quality control)

EQA for Mindray Reference laboratory—— Rela

Mindray reference laboratory has passed Rela for 6 continuous years

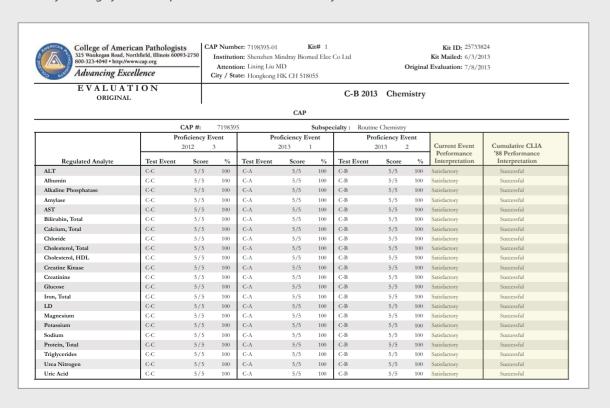


More Rela results please refer to: www.dgkl-rfb.de/81



EQA for Mindray Testing System—— CAP

Mindray testing system has passed CAP for 6 continuous years



Reagent menu

Hepatic Panel

Alanine Aminotransferase (ALT)

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

y-GlutamylTransferase (y-GT)

Direct Bilirubin (D-Bil) DSA Method

Direct Bilirubin (D-Bil)VOX Method

Total Bilirubin (T-Bil) DSA Method

Total Bilirubin (T-Bil)VOX Method

Total Protein (TP)

Albumin (ALB)

Total Bile Acids (TBA)

Prealbumin (PA)

Cholinesterase (CHE)

α-L-fucosidase (AFU)

5'-nucleotidase (5'-NT)

Renal Panel

Urea (UREA)

Creatinine (CREA) Modified Jaffé Method

Creatinine (CREA)Sarcosine Oxidase Method

Uric Acid (UA)

Carbon dioxide (CO2)

Microalbumin

β2-Microglobulin (β2-MG)

Cystatin C (CysC)

Retinol binding protein(RBP)

Immune Panel

Immunoglobulin A (IgA)

Immunoglobulin G (IgG)

Immunoglobulin M (IgM)

Immunoglobulin E (IgE)

Complement C3 (C3)

Complement C4 (C4)

Diabetes Panel

Glucose (Glu) GOD-POD Method

Glucose (Glu) HK Method

Hemoglobin A1c (HbA1c)

Fructosamine (FUN)

β-Hydroxybutyrate(β-HB)

Cardiac panel

Creatine Kinase (CK)

Creatine Kinase-MB (CK-MB)

Lactate Dehydrogenase (LDH)

 α -Hydroxybutyrate Dehydrogenase(α -HBDH)

High sensitive C-reaction protein (HS-CRP)

Homocysteine (HCY)

Myoglobin(MYO)

D-Dimer(D-Dimer)

Inorganic & Anemia

Iron (Fe)

Ferritin (FER)

Transferrin (TRF)

Calcium (Ca)

Magnesium (Mg)

Phosphate Inorganic (P)

Unsaturated iron binding capacity (UIBC)

Glucose-6-phosphate dehydrogenase (G6PD)

Lipid Panel

Total Cholesterol (TC)

Triglycerides (TG)

HDL-Cholesterol (HDL-C)

LDL-Cholesterol (LDL-C)

Apolipoprotein A1 (ApoA1)

Apolipoprotein B (ApoB)

Lipoprotein(a) [Lp(a)]

Rheumatism Panel

C-reactive protein (CRP)

Rheumatoid Factor (RF)

Antibodies Against Streptolysin O (ASO)

Lung Panel

Adenosine Deaminase (ADA)

Angiotensin Converting Enzyme(ACE)

Pancreatitis Panel

α-Amylase (α-AMY)

Lipase (LIP)