

BS-240E

Chemistry Analyzer

Compact yet Robust









Complete traceability process

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

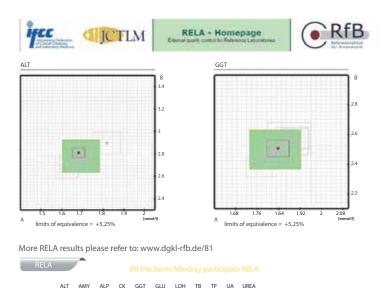
Traceability chain of Mindray measurement system (Glu) Traceability Material Calibration / Value Assignment Procedure Implementation Uncertainty Uc(y) SI unit,mmol/L Reference material SRM 917C Mindray Master Calibrator CDC Hexokinase reference method Mindray Product Calibrator Mindray Product Calibrator Routine Sample Result

External quality assurance for reference measurement

Mindray participates in RELA (External quality control for reference laboratory).

EQA for Mindray Reference laboratory——RELA

Mindray reference laboratory has passed RELA for 6 consecutive years.



Reagent menu

Hepatic Panel

Alanine Aminotransferase (ALT)

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

γ-GlutamylTransferase (γ-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)

Lipid Panel

Triglycerides (TG)

HDL-Cholesterol (HDL-C)

LDL-Cholesterol (LDL-C)

Apolipoprotein B (ApoB)

Lipoprotein(a) [Lp(a)]

Apolipoprotein A1 (ApoA1)

Cholinesterase (CHE)

α-L-fucosidase (AFU)

5'-nucleotidase (5'-NT)

o macicolidase (o m)

Cardiac panel

Creatine Kinase (CK)

Creatine Kinase-MB (CK-MB)

Lactate Dehydrogenase (LDH)

 $\alpha\text{-Hydroxybutyrate Dehydrogenase}(\alpha\text{-HBDH})$

High sensitive C-reaction protein(HS-CRP)

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)

Lung Panel

Adenosine Deaminase (ADA)

Angiotensin Converting Enzyme(ACE)

Total Cholesterol (TC) Immune Panel

Immunoglobulin A (IgA)

Immunoglobulin G (IgG)

Immunoglobulin M (IgM)

Complement C3 (C3)

Complement C4 (C4)

Renal Panel

Urea (UREA)

Creatinine (CREA) Modified Jaffé Method

Creatinine (CREA)Sarcosine Oxidase Method

Uric Acid (UA)

Carbon dioxide (CO2)

Microalbumin(MALB)

β2-Microglobulin (β2-MG)

Cystatin C (CysC)

Retinol binding protein(RBP)

Rheumatism Panel

C-reactive protein (CRP)

Rheumatoid Factor (RF)

Antibodies Against Streptolysin O (ASO)

Diabetes Panel

Glucose (Glu) GOD-POD Method

Glucose (Glu) HK Method

Hemoglobin A1c (HbA1c)

Fructosamine (FUN)

β-Hydroxybutyrate(β-HB)

Pancreatitis Panel

α-Amylase (α-AMY)

Lipase (LIP)

BS-240E

Chemistry Analyzer

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top

STAT sample priority

Throughput: Constant 240 photometric tests per

hour, up to 400 T/H with ISE

Measuring principles: Absorbance photometry,

turbidimetry, ion selective electrode

technology

Methodology: End-point, Fixed-time, Kinetic,

optional ISE,

Single/Double reagent chemistries,

Mono-chromatic / bi-chromatic

Original system pack reagent ready to use Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 50 to 100 positions for reagents and 50

to 100 positions for samples in 24-hour

refrigerated compartment (2~12°C)

Reagent volume: R1: 100~200μL, step by 0.5μL

R2: 10~200μL, step by 0.5μL

Sample volumne: 2~35μL, step by 0.1μL

Reagent/Sample probe: Liquid level detection, horizontal and

vertical collision protection, inventory

checking, reagent pre-warming,

optional clog detection

Probe cleaning: Automatic washing for interior and

exterior

Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

Mixing Unit: Independent mixing bar

Built-in Bar Code Reader (Optional)

Used for sample and reagent programming

Be applicable to various bar code systems of Codabar, ITF

(Interleaved Two of Five), code128, code39, UPC/EAN, Code93 Capable to communicate with LIS in bi-directional mode

Reaction System

Reaction tray: 80 reusable cuvettes

100~360µL Reaction volume: Reaction temperature: 37° C $\pm 0.1^{\circ}$ C

Cuvette Washing: Washing station with pre-warmed

detergent and de-ionized water

ISE Module (optional)

Measuring K+, Na+, Cl-

Optical System

Light Source: Halogen-tungsten lamp

Wavelength: 12 wavelengths, 340nm, 380nm, 412nm,

450nm, 505nm, 546nm, 570nm, 605nm,

660nm, 700nm, 740nm, 800nm

Absorption range: 0~3.5Abs, resolution 0.0001Abs

Stray Light: 4.9Abs

Control and Calibration

Calibration modes: K factor, Linear (two points and multi-

points), Logit-Log 4P, Logit-Log 5P, Spline,

Exponential, Polynomial, Parabola,

Logit-Log3P, Broken line

One key calibrator import function

Control Rules: Westgard multi-rule, Levey-Jennings,

Cumulative sum check, Twin plot

Operation Unit

Operation system: Windows 10

Interface: RS-232

Working Conditions

200~240V, 50/60Hz, ≤1300VA or Power Supply:

100~130V, 60Hz, ≤1300VA

860 mm (length) \times 660 mm (depth) \times Dimension:

550 mm (height)

Weight: 115 kg

Water Consumption: ≤6.5 L/H



Marketed By:



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