



BS-240

Clinical Chemistry A



LAB Market

بنها - عمارة ٢ غرب الاستاد - بجوار كنتاكي - خلف نقابة اطباء ومطعم الرشيدى

لاب ماركت

- مستلزمات معملية
- كيمويات
- أجهزة
- صيانة

01096411333

mindray

healthcare within reach



Flexible loading:

Up to 80 sample positions,

Up to 80 reagent positions.

(40 fixed + 40 interchangeable)

Smart-Sampling Technology

Automatic hemolysate
preparation for

HbA1c test



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100µl
minimum reaction volume



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بنها - عمارة ٢ غرب الاستاد - بجوار كنتاكي - خلف نقابة الاطباء ومطعم الرشيدى

Upgraded auto-washing system
ensures low carryover and low water
consumption.



BS-240

Clinical Chemistry Analyzer

Compact Size with Robust Functions



Independent mixing bar



Built-in barcode reader



Intelligent software with user-friendly interface



Step-by-step maintenance guide



Waterfall probe cleaning

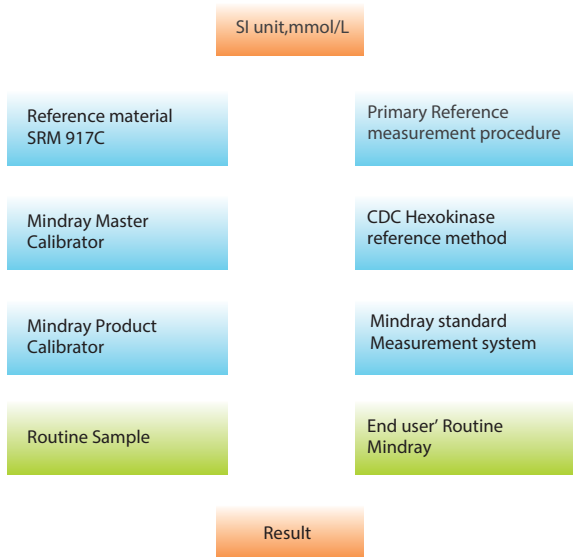
BS-240

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 $U_c(y)$

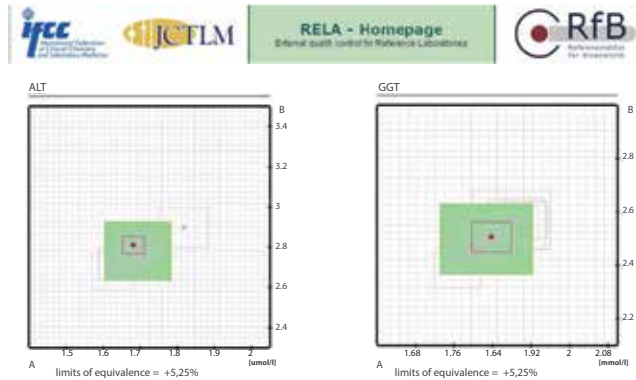


External quality assurance for reference measurement

Mindray participates in 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 consecutive years.



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

RELA All the items Mindray participate RELA
 ALT AMY ALP CK GGT GLU LDH TB TP UA UREA

EQA for Mindray Testing System——CAP

Mindray testing system has passed CAP for 6 consecutive years.



CAP Number: 7198395-01 Kit# 1
 Institution: Shenzhen Mindray Biomed Elec Co Ltd
 Attention: LiXing Liu MD
 City / State: Hongkong HK CH 518055
 Kit ID: 25733824
 Kit Mailed: 6/3/2013
 Original Evaluation: 7/8/2013

EVALUATION ORIGINAL

C-B 2013 Chemistry

CAP

CAP #: 7198395 Subspecialty: Routine Chemistry

Regulated Analyte	Proficiency Event 2012 3			Proficiency Event 2013 1			Proficiency Event 2013 2			Current Event Performance Interpretation	Cumulative CLIA '88 Performance Interpretation
	Test Event	Score	%	Test Event	Score	%	Test Event	Score	%		
ALT	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Albumin	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Alkaline Phosphatase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Amylase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
AST	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Bilirubin, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Calcium, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Chloride	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, HDL	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatine Kinase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatinine	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Glucose	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Iron, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
LD	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Magnesium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Potassium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Sodium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Protein, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Triglycerides	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Urea Nitrogen	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Uric Acid	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful

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)
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
 β 2-Microglobulin (β 2-MG)
Cystatin C (CysC)
Retinol binding protein(RBP)

Immune Panel

Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
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)

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)

BS-240

Clinical Chemistry Analyzer

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top

STAT sample priority

Throughput: Up to 200 tests/hour, up to 400 tests/hour with ISE

Measuring principles: Absorbance photometry, Turbidimetry, Ion

Selective Electrode technology

Methodology: End-point, Fixed-time, Kinetic, optional ISE,
Single/Dual/ reagent chemistries,
monochromatic / bi-chromatic

Original system pack reagent ready to use

Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 80 positions for reagents and 40 positions
for samples in 24-hour refrigerated
compartment (2~12 °C)

Reagent volume: 10~250µl, step by 0.5µl

Sample volume: 2~45µl, step by 0.1µl

Reagent/Sample probe: Liquid level detection, vertical collision
protection and inventory checking, reagent pre-warming

Probe cleaning: Automatic washing for interior and exterior
Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

Internal 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 rotor: Rotating tray, containing 40 cuvettes

Cuvette: Reusable, optical length 5mm

Reaction volume: 100~360µl

Operating temperature: 37 °C

Temperature fluctuation: ± 0.1 °C

ISE Module (optional)

Measuring K+, Na+, Cl-

Mixing Unit

Independent mixing bar

Cuvette Washing: Washing station with pre-warmed detergent
and water

Optical System

Light Source: Halogen-tungsten lamp

Wavelength: 8 wavelengths, 340nm、405nm、450nm、
510nm、546nm、578nm、630nm、670nm

Absorption range: 0~4.0 Abs (10mm conversion), resolution
0.0001Abs

Stray Light 5.6Abs

Control and Calibration

Calibration modes: Linear (one point, two points and
multi-points), Logit-Log 4P, Logit-Log 5P,
spline, exponential, polynomial, parabola

Control Rules: X-R, L-J, Westgard multi-rule, Cumulative sum
check, twin plot

Operation Unit

Operation system: Windows 8

Interface: RS-232

Working Conditions

Power Supply: 200~240V, 50/60Hz, ≤1000VA or 100~130V,
60Hz, ≤1000VA

Dimension: 690 mm (length) ×580 mm (depth) ×595 mm
(height)

Weight: 79 kg

Water Consumption: ≤ 4 L/H



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