BS-430

Chemistry Analyzer

FusionGreen Healthcare Pvt. Ltd.

We deliver ...

mindray

healthcare within reach

Chemistry Reagents

Hepatic Panel

- Alanine Aminotransferase (ALT)
- Aspartate Aminotransferase (AST)
- Alkaline Phosphatase (ALP)
- γ-Glutamyl Transferase (γ-GT)
- Direct Bilirubin (D-Bil) DSL Method
- Direct Bilirubin (D-Bil) VOX Method
- Total Bilirubin (T-Bil) DSL Method
- Total Bilirubin (T-Bil) VOX Method
- Total Protein (TP)
- Albumin (ALB)
- Total Bile Acid (TBA)
- Prealbumin (PA)
- Cholinesterase (CHE)

Renal Panel

- Urea (UREA)
- Creatinine (CREA) Modified Jaffé Method
- Creatinine (CREA) Enzymatic Oxidase Method
- Uric Acid (UA)
- Carbon Dioxide (CO2)
- Microalbumin (MALB)
- β2-Microglobulin (β2-MG)
- Cystatin C (CysC)
- Retinol Binding Protein (RBP)
- Total Protein in Urine & CSF (TPUC)

Cardiac Panel

- Creatine Kinase (CK)
- Creatine Kinase-MB (CK-MB)
- Lactate Dehydrogenase (LDH)
- α-Hydroxybutyrate Dehydrogenase (α-HBDH)
- Full Range C-reaction Protein (FR-CRP)

Diabetes Panel

- Glucose (Glu) GOD-POD Method
- Glucose (Glu) HK Method
- Hemoglobin A1c (HbA1c)
- Fructosamine (FUN)
- β-Hydroxybutyrate (β-HB)

Inorganic Analytes

- Iron (Fe^{2+})
- Ferritin (FER)
- Transferrin (TRF)
- Calcium (Ca^{2+})
- Magnesium (Mg^{2+})
- Phosphate Inorganic (P^{3-})
- Unsaturated Iron Binding Capacity (UIBC)
- Glucose-6-phosphate Dehydrogenase (G6PD)

Lipid Panel

- Total Cholesterol (TC)
- Triglyceride (TG)
- HDL-Cholesterol (HDL-C)
- LDL-Cholesterol (LDL-C)
- Apo-lipoprotein A-1 (Apo-A1)
- Apo-lipoprotein B (Apo-B)
- Lipoprotein (a) (Lp(a))

Immune Panel

- Immunoglobulin A (IgA)
- Immunoglobulin G (IgG)
- Immunoglobulin M (IgM)
- Complement C3 (C3)
- Complement C4 (C4)

Rheumatism Panel

- C-reactive Protein (CRP)
- Rheumatoid Factor (RF)
- Antibodies Against Streptolysin O (ASO)

Pancreatitis Panel

- α-Amylase (α-AMY)
- Lipase (LIP)

Lung Panel

- Adenosine Deaminase (ADA)
- Angiotensin Converting Enzyme (ACE)

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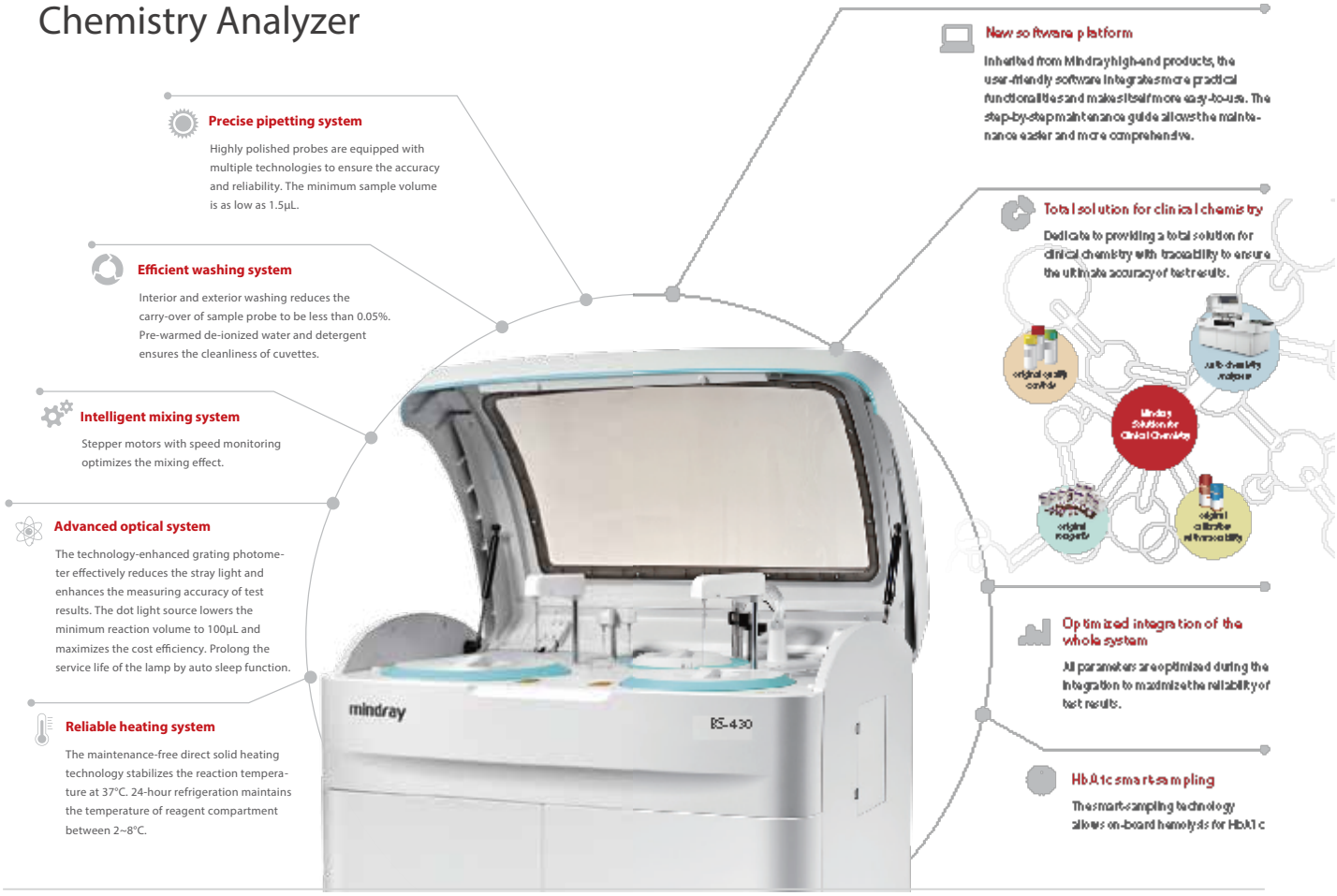
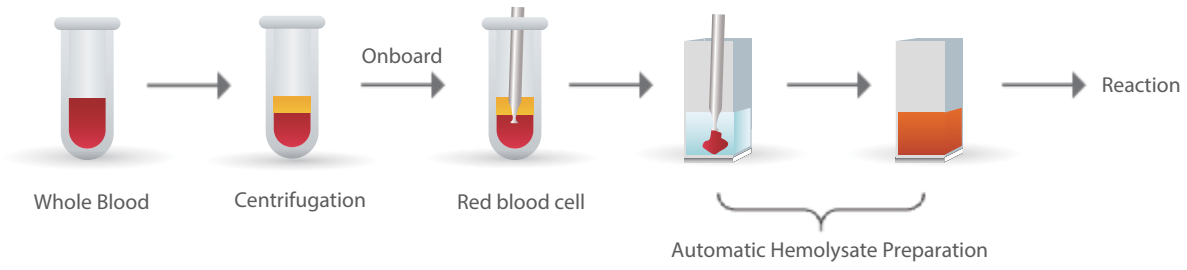
Chemistry Analyzer



HbA1c Smart-sampling Technology

BS-430 chemistry analyzer utilizes HbA1c smart-sampling technology, which allows onboard automatic hemolysate preparation 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.

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Technical Specifications

System Function: Automatic, discrete, random access, STAT sample priority
Throughput: 420 photometric tests per hour, up to 626 tests per hour with ISE
On-board tests: 90 photometric tests + 3 ISEs + 3 serum indices

Sample Handling:
Sample tray: 102 sample positions,
Sample volume: 1.5μL~45μL, step by 0.1μL
Sample probe: Liquid level detection, collision protection, clog detection (optional), and auto-dilution, automatic hemolysis
Carry-over≤0.05%

Reagent Handling:
Reagent tray: 92 reagent positions with 24-hour refrigeration 2~8°C,
Reagent volume: 10μL~200μL, step by 0.5μL
Reagent probe: Liquid level detection, collision protection, bubble detection, concentrated reagent with auto-dilution

Built-in Bar Code Reader (optional):
Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of Five), Code128, Code39, UPC/EAN and code93,
Capable to connect with LIS in Bi-directional mode

Reaction System:
Cuvettes: 93 reusable cuvettes with 8-step auto-washing
Reaction temperature: 37 ± 0.1°C
Reaction volume: 100~300μL
Mixing system: 2 independent mixers with speed detection

Optical System:
Light source: 12V 20W tungsten-halogen lamp
Photometer: Grating system
Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range: 0~3.5A

ISE Module (Optional):
K^+, Na^+, Cl^-

Control and Calibration:
Calibration mode: K factor, Linear (two points and multi-points), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola, Logit-log3P, broken line
Control rules: Westgard multi-rule, Levey-Jennings, Cumulative sum check, Twin plot

Operation Unit:
Operation system: Windows 10
Interface: RS-232 serial port

Working Conditions
Power supply: 220V-240V, 50/60Hz, ≤1000VA or 110V-130V, 60Hz, ≤1000VA
Water consumption: ≤20 L/H
Dimension: 1050 mm (W) * 720 mm (D) * 1150 mm (H)
Weight: ≤200 Kg

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P/N: ENG-BS-450-210285x6-20170423

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