BS-430

Chemistry Analyzer

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≤0.05µL

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:

93 reusable cuvettes with 8-step auto-washing Cuvettes:

 37 ± 0.1 °C Reaction temperature: 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 Westgard multi-rule, Levey-Jennings, Cumulative

sum check, Twin plot

Operation Unit:

Control rules:

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

Working Conditions

220V-240V, 50/60Hz, ≤1000VA Power supply:

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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Chemistry Reagents

Alanine Aminotransferase (ALT

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

γ-Glutamyl Transferase (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

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)

Total Protein In Urine & CSF (TPUC)

Ferritin (FER)

Transferrin (TRF)

Calcium (Ca)

Magnesium (Mg)

Phosphate Inorganic (P)

Unsaturated Iron Binding Capacity (UIBC)

Glucose-6-phosphate Dehydrogenase (G6PD)

Immunoglobulin A (IgA)

Immunoglobulin G (IgG) Immunoglobulin M (IgM)

Complement C3 (C3)

Complement C4 (C4)

Creatine Kinase (CK)

Creatine Kinase-MB (CK-MB)

Lactate Dehydrogenase (LDH)

α-Hydroxybutyrate Dehydrogenase (α-HBDH) Full Range C-reaction Protein(FR-CRP)

Glucose (Glu) GOD-POD Method

Glucose (Glu) HK Method

Hemoglobin A1c (HbA1c)

Fructosamine (FUN)

β-Hydroxybutyrate (β-HB)

Total Cholesterol (TC)

Triglycerides (TG)

HDL-Cholesterol (HDL-C)

LDL-Cholesterol (LDL-C)

Apolipoprotein A1 (ApoA1)

Apolipoprotein B (ApoB)

Lipoprotein(a) (Lp(a))

C-reactive Protein (CRP)

Rheumatoid Factor (RF)

Antibodies Against Streptolysin O (ASO)

α-Amylase (α-AMY)

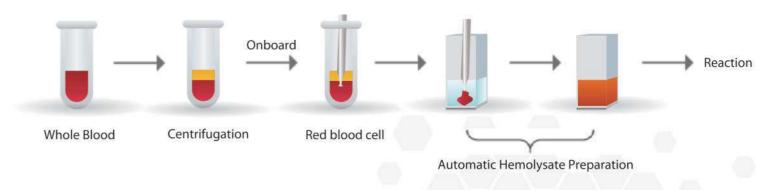
Lipase (LIP)

Adenosine Deaminase (ADA) Angiotensin Converting Enzyme (ACE)



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 enzymati 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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