ALLIANCE MEDISYSTEMS

Global Medical Solutions

Product Catalogue

Laboratory Equipment & Diagnostic Solutions

2026

OUR BRANDS & PARTNERS

Mindray · Snibe MAGLUMI · Wondfo Finecare
DL Biotech Blood Culture · Pathoworld ZBT / ZellCLOT / ZellECHEM
CoSara Diagnostics · Bio-state FungiXpert

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About Alliance Medisystems

A trusted source for laboratory equipment and diagnostics

Alliance Medisystems is a Delhi-based distributor of laboratory equipment, analyzers and diagnostic test solutions. This catalogue brings together the instruments, reagent menus and test kits we supply across clinical chemistry, immunoassay, haematology, coagulation, microbiology and molecular diagnostics — each product listed once, with its specifications and test menu.

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Clinical Chemistry Analyzers

01

Fully automated Mindray BS-series analyzers for small to large laboratories, plus compact semi-automated ZellECHEM biochemistry analyzers.

Mindray BS Series

MINDRAY · Fully automated clinical chemistry

Four benchtop and floor-standing clinical chemistry analyzers sharing one original-reagent menu. Random-access, discrete, STAT-capable, with an optional ISE module (K+, Na+, Cl-) and built-in barcode reader (optional).



BS-230



BS-240



BS-240E



BS-430

Model highlights

BS-230

- Compact; 100 µL minimum reaction volume
- 80 reagent positions (40 fixed + 40 interchangeable)
- Disposable cuvettes to avoid contamination
- Probe carry-over < 0.05%; independent mixing bar

BS-240

- Whole-blood HbA1c testing function
- Redefined auto-washing: low carry-over and water use
- Zero-maintenance syringe; waterfall probe cleaning
- Software with 47 new functions

BS-240E

- Up to 100 sample and 100 reagent positions
- Constant 240 photometric tests/hour (400 with ISE)
- HbA1c smart-sampling: automatic hemolysate preparation
- Optional clog detection; grating photometer

BS-430

- 420 photometric tests/hour (626 with ISE)
- Minimum sample volume 1.5 µL; two independent mixers
- 93 reusable cuvettes with 8-step auto-washing
- 90 photometric tests + 3 ISEs + 3 serum indices on board

Quality & traceability

Calibration hierarchy and traceability follow EN/ISO 17511 from reference system to routine measurement. The manufacturer reports participation in RELA (reference laboratory EQA) and CAP external quality programmes.

Mindray BS Series – Technical specifications

Parameter	BS-230	BS-240	BS-240E	BS-430
Throughput	Up to 200 tests/h; up to 400 with ISE	Up to 200 tests/h; up to 400 with ISE	Constant 240 photometric tests/h; up to 400 with ISE	420 photometric tests/h; up to 626 with ISE
Measuring principles	Absorbance photometry, turbidimetry, ISE	Absorbance photometry, turbidimetry, ISE	Absorbance photometry, turbidimetry, ISE	Absorbance photometry, turbidimetry, ISE
Methodology	End-point, fixed-time, kinetic; single/dual reagent; mono/bi-chromatic	End-point, fixed-time, kinetic; single/dual reagent; mono/bi-chromatic	End-point, fixed-time, kinetic; single/double reagent; mono/bi-chromatic	Random access, STAT priority
Sample positions	40 (tray); up to 80 flexible	40 (tray); up to 80 flexible	50 to 100	102
Reagent positions	80 (40 fixed + 40 interchangeable)	80	50 to 100 (50 fixed + 50 interchangeable)	92
Reagent refrigeration	24 h, 2–12 °C	24 h, 2–12 °C	24 h, 2–12 °C	24 h, 2–8 °C
Reagent volume	10–250 µL, step 0.5 µL	10–250 µL, step 0.5 µL	R1 100–200 µL; R2 10–200 µL, step 0.5 µL	10–200 µL, step 0.5 µL
Sample volume	2–45 µL, step 0.1 µL	2–45 µL, step 0.1 µL	2–35 µL, step 0.1 µL	1.5–45 µL, step 0.1 µL
Reaction volume	100–360 µL	100–360 µL	100–360 µL	100–300 µL
Cuvettes	40 disposable	40 reusable	80 reusable	93 reusable, 8-step auto-washing
Reaction temperature	37 °C ± 0.1 °C	37 °C ± 0.1 °C	37 °C ± 0.1 °C	37 °C ± 0.1 °C
Probe features	Liquid-level detection, vertical collision protection, inventory check, reagent pre-warming	Same as BS-230	Horizontal + vertical collision protection, inventory check, pre-warming, optional clog detection	Liquid-level, collision, bubble detection, optional clog detection, auto-dilution, hemolysis
Carry-over	< 0.05%	< 0.05%	< 0.05%	≤ 0.05%
Auto dilution	Pre- and post-dilution	Pre- and post-dilution	Pre- and post-dilution	Auto-dilution; concentrated reagent auto-dilution
Mixing	Independent mixing bar	Independent mixing bar	Independent mixing bar	2 independent mixers with speed detection
Light source	Halogen-tungsten lamp	Halogen-tungsten lamp	Halogen-tungsten lamp	12 V 20 W tungsten-halogen lamp
Wavelengths	8: 340, 405, 450, 510, 546, 578, 630, 670 nm	8: 340, 405, 450, 510, 546, 578, 630, 670 nm	12: 340, 380, 412, 450, 505, 546, 570, 605, 660, 700, 740, 800 nm	12: 340, 380, 412, 450, 505, 546, 570, 605, 660, 700, 740, 800 nm
Absorbance range	0–4.0 Abs (10 mm), res. 0.0001	0–4.0 Abs (10 mm), res. 0.0001	0–3.5 Abs, res. 0.0001	0–3.5 Abs
Calibration	Linear (1, 2, multi-point), Logit-Log 4P/5P, spline, exponential, polynomial, parabola	Same as BS-230	K factor, linear, Logit-Log 3P/4P/5P, spline, exponential, polynomial, parabola, broken line; one-key calibrator import	K factor, linear, Logit-Log 3P/4P/5P, spline, exponential, polynomial, parabola, broken line
QC rules	X-R, L-J, Westgard multi-rule, cumulative sum, twin plot	X-R, L-J, Westgard multi-rule, cumulative sum, twin plot	Westgard multi-rule, Levey-Jennings, cumulative sum, twin plot	Westgard multi-rule, Levey-Jennings, cumulative sum, twin plot
Barcode reader	Built-in, optional; bi-directional LIS	Built-in, optional; bi-directional LIS	Built-in, optional; Codabar, ITF, Code128, Code39, UPC/EAN, Code93; bi-directional LIS	Built-in, optional (same symbologies); bi-directional LIS
HbA1c	Reagent on menu	Whole-blood testing function	Smart-sampling (auto hemolysate)	Smart-sampling (auto hemolysate)
Operating system / interface	Windows 8 / RS-232	Windows 8 / RS-232	Windows 10 / RS-232	Windows 10 / RS-232
Power supply	200–240 V 50/60 Hz ≤1000 VA or 100–130 V 60 Hz	200–240 V 50/60 Hz ≤1000 VA or 100–130 V 60 Hz	200–240 V 50/60 Hz ≤1300 VA or 100–130 V 60 Hz	220–240 V 50/60 Hz ≤1000 VA or 110–130 V 60 Hz
Dimensions (L×D×H)	690 × 580 × 595 mm	690 × 580 × 595 mm	860 × 660 × 550 mm	1050 × 720 × 1150 mm
Weight	47 kg	79 kg	115 kg	≤ 200 kg
Water consumption	≤ 2 L/h	≤ 4 L/h	≤ 6.5 L/h	≤ 20 L/h

Mindray Reagent Menu

MINDRAY · Original system-pack reagents, ready to use

One menu serves the whole BS series. Original system-pack reagents are ready to use; open-system use is optional. Superscripts show where a test is limited to certain models.

Hepatic	ALT · AST · ALP · -GT · Direct Bilirubin (DSA) · Direct Bilirubin (VOX) · Total Bilirubin (DSA) · Total Bilirubin (VOX) · Total Protein · Albumin · Total Bile Acids · Prealbumin · Cholinesterase · -L-Fucosidase (AFU) [1] · 5-Nucleotidase (5-NT) [1]
Renal	Urea · Creatinine (Modified Jaffé) [2] · Creatinine (Sarcosine Oxidase) · Uric Acid · Carbon Dioxide · Microalbumin · 2-Microglobulin · Cystatin C · Retinol Binding Protein · Total Protein in Urine & CSF [3]
Diabetes	Glucose (GOD-POD) · Glucose (HK) · HbA1c · Fructosamine · -Hydroxybutyrate
Cardiac	CK · CK-MB · LDH · -HBDH · hs-CRP [1] · Full Range CRP (FR-CRP) [3]
Inorganic & Anaemia	Iron · Ferritin · Transferrin · Calcium · Magnesium · Inorganic Phosphate · UIBC · G6PD
Lipid	Total Cholesterol · Triglycerides · HDL-C · LDL-C · Apolipoprotein A1 · Apolipoprotein B · Lipoprotein(a)
Immune	IgA · IgG · IgM · Complement C3 · Complement C4
Rheumatism	CRP · Rheumatoid Factor · ASO
Lung	Adenosine Deaminase (ADA) · Angiotensin Converting Enzyme (ACE)
Pancreatitis	-Amylase · Lipase

[1] BS-230, BS-240, BS-240E only. [2] Not listed for BS-230. [3] BS-430 only.

ZellECHEM SR & PRO

PATHOWORLD · Semi-automated biochemistry

Semi-automated biochemistry analyzers with a 7" colour touch screen, flow-cell measurement and a built-in thermal printer. SR is supplied with incubator; PRO is the larger desktop model.



ZellECHEM SR (ZCH01)



ZellECHEM PRO (ZCH02)

Principle	Colorimetry, photometry & absorbance
Analysis methods	End point, kinetic, fixed time (2-point kinetic), bichromatic & absorbance
Measuring module	Flow cell – 18 µL / 32 µL
Wavelengths (filters)	340, 405, 505, 546, 578 & 630 nm; 2 extra spaces for optional filters
Light source	12 V / 20 W halogen lamp (320–1000 nm)
Photometric range	0.000 – 3.000 Abs
Stability	< 0.005 Abs / hour
Memory	100 programs; more than 10,000 results with graphs
Calibration	1-point linear / factor, 2-point linear, multi-standard linear & non-linear / line graph
Quality control	2-level QC program with L-J graph
Temperature control	25 °C – 37 °C (Peltier element)
Display	7" colour LCD touch screen
Patient ID	Alphanumeric, up to 16 digits; manual or USB barcode scanner
Result recall	Available
Printer / interface	Thermal printer; RS-232, HL7 protocol
Dimensions (L×W×H)	SR: 300 × 350 × 130 mm | PRO: 330 × 394 × 152 mm
Weight	SR: 4.0 kg | PRO: 5.4 kg
Power	110–230 V AC, 50/60 Hz
Environment	15–30 °C; 35–80 % RH non-condensing
Standards (brochure)	ISO 13485, US FDA registered, CDSCO registered, CE certified; IEC 61010-1, 61010-2-101, 61326-1, 61326-2-6
Product codes	ZCH01 ZellECHEM SR with incubator | ZCH02 ZellECHEM PRO | ZCPRT thermal printer | ZPRL printer paper roll

Immunoassay & Rapid Quantitative Testing

02

Fully automated chemiluminescence immunoassay (Snibe MAGLUMI 800) and the compact Wondfo Finecare fluorescence immunoassay meter for point-of-care testing.

Snibe MAGLUMI 800

SNIBE · CLIA immunoassay analyzer

Fully-auto chemiluminescence immunoassay (CLIA) system for small and mid-size laboratories and hospitals. Flash chemiluminescence ABEI labels and magnetic-microbead separation give high sensitivity and long reagent stability.

Throughput	Up to 180 tests/hour; time to first result 17 minutes; ready to use 24 h
Modes	Random, batch and STAT
Sample loading	Up to 40 sample tubes; continuous loading, STAT available; refrigerated sample area; barcode reader or automatic numbering; bi-directional LIS (TCP/IP and COM)



Reagent loading	9 reagents on board; continuous loading; RFID reads all reagent information; refrigerated reagent area
Reagents	Ready to use, no pretreatment; calibrators included; RFID tag with built-in master curve; 2-point calibration adjusts master curve; calibration stability up to 4 weeks
Reaction	ABEI flash chemiluminescence; 13 incubation slots (78 tests at the same time) at 36.8 ± 0.5 °C; 40 cuvette modules of 240 tests with continuous loading
Pipettor	Titanium crush-proof needle, TEFLON coated; clot and liquid-level detection; internal and external washing
Detection / washing	High-sensitivity, low-noise PMT; three pairs of anti-overflow washing needles with strong magnetic field
Other	Automatic dilution with optional ratio; pre-/post-dilution; Westgard rules and Levey-Jennings charts; 10 languages by request
Operating system	Windows 7 / Windows 10, colour screen
Power	AC 110/230 V, 50/60 Hz, max 630 W
Dimensions / weight	102 × 72 × 56 cm; 73 kg

Snibe MAGLUMI X3

SNIBE · CLIA immunoassay analyzer

Fully-auto chemiluminescence immunoassay (CLIA) system – "Save your space without compromise": powerful performance in a compact design for small and medium-sized hospitals and labs. Compatible with all MAGLUMI reagents (260 parameters). Cover mark in brochure: FDA 510(k) cleared.

Highlights

- Throughput up to 200 tests/hour
- 260 assays on one platform
- No-pause loading of reagents, samples and cups
- Indicator lights: status visible from a distance



Throughput	Up to 200 tests/hour; space occupied < 0.68 m²; throughput per unit area > 294 T/h/m²; 24 hours ready to use
Reagent loading	20 reagent positions on board with RFID reader; no-pause loading/unloading; 24 h refrigerated, constant 10 °C (±3 °C); indicator light for real-time status
Sample loading	Up to 72 sample positions with barcode reader; any position can be defined STAT; micro sample cups, blood collection tubes, plastic tubes; LIS, barcode or manual sample editing
Reagents	Compatible with all MAGLUMI analyzers and reagents; calibrators and internal controls included; 10-point master curve with 2-point re-calibration; RFID tag stores reagent data; store at 2–8 °C
Reaction system	Single reaction cup with five-sided heating at 37.0 °C (±0.3 °C); 80 cuvettes incubated simultaneously; non-contact mixing with assay-specific modes
Sampling	Titanium crush-proof needle, TEFLON-coated against carry-over; liquid-level, clot and collision detection; automatic washing with assay-specific washing modes
Washer	4-step magnetic separation washing; three independent non-contact vortex mixing units; resuspension washing; independent washing unit for waste-liquid needles
Measuring chamber	ABEI label technology; high-sensitivity low-noise PMT with bidirectional heating/cooling temperature control; independent measuring room prevents light cross-contamination
Consumables	Single reaction cups with integrated packaging; starters 230 mL of Starter 1 and 2; system liquid up to 10 L; indicator light monitors consumables
Software	New user-friendly multi-language UI; real-time monitoring of each test, reagent and consumable; intelligent error recovery; bidirectional SnibeLis connection (TCP/IP, COM); SnibeLinker remote diagnosis
Dimensions / weight	78 (H) × 90 (W) × 75 (D) cm; 127 kg
Reagents & consumables	Reagent kit · Reaction cup · Starter 1+2 · Light Check · Wash concentrate · System tubing cleaning solution

MAGLUMI Test Menu

SNIBE · Broad CLIA menu – applies to MAGLUMI 800 and MAGLUMI X3

Thyroid	TSH (3rd Gen) · Total T4 · Total T3 · Free T4 · Free T3 · Thyroglobulin · Anti-Tg (TGA) · Anti-TPO · TRAb · TMA · Rev T3 · T-Uptake
Fertility & Reproductive	FSH · LH · Total -HCG · Prolactin · Estradiol · Testosterone · Free Testosterone · DHEA-S · Progesterone · Unconjugated Estriol · 17-OH Progesterone · AMH · SHBG · Androstenedione · PlGF · sFlt-1 · Inhibin A* · Inhibin B*
Anaemia	Vitamin B12 · Ferritin · Folate · EPO · RBC Folate · Anti-Intrinsic Factor* · Active B12*
TORCH	Toxo IgG · Toxo IgM · Rubella IgG · Rubella IgM · CMV IgG · CMV IgM · HSV-1/2 IgG · HSV-1/2 IgM · HSV-1 IgG · HSV-2 IgG · HSV-1 IgM · HSV-2 IgM · Toxo IgG Avidity* · CMV IgG Avidity* · Parvovirus B19 IgG* · Parvovirus B19 IgM*
Hepatitis	HBsAg · Anti-HBs · HBeAg · Anti-HBe · Anti-HBc · Anti-HBc IgM · Anti-HCV · Anti-HAV · HAV IgM · HEV IgG · HEV IgM · HBV Pre-S1 Ag* · HDV IgG* · HDV IgM* · Anti-HDV*
Respiratory Infections	2019-nCoV IgG · 2019-nCoV IgM · SARS-CoV-2 S-RBD IgG · SARS-CoV-2 Neutralizing Antibody · SARS-CoV-2 Ag · Mycoplasma pneumoniae IgG · Mycoplasma pneumoniae IgM · Chlamydia pneumoniae IgG · Chlamydia pneumoniae IgM · RSV IgM* · Coxsackievirus B IgM* · Adenovirus IgM* · Influenza A IgM* · Influenza B IgM* · Legionella pneumophila IgM* · Human Parainfluenza IgM*
Other Infectious Disease	HIV Ab/Ag Combi · Syphilis · Chagas · HTLV I+II · H. pylori IgG · H. pylori IgA · H. pylori IgM · H. pylori Ag* · Dengue IgG · Dengue IgM · Dengue NS1 · Monkeypox Ag · TB-IGRAs* · Zika IgG* · Zika IgM* · Zika NS1* · Chlamydia trachomatis IgA* · Chlamydia trachomatis IgG*
EBV	EBV EA IgG · EBV EA IgA · EBV NA IgG · EBV NA IgA · EBV VCA IgG · EBV VCA IgM · EBV VCA IgA
Autoimmune – Connective Tissue	ANA Screen · ENA Screen · Anti-dsDNA IgG · Anti-Sm IgG · Anti-Rib-P IgG · Anti-SS-B IgG · Anti-SS-A/Ro (Ro60) IgG · Anti-Jo-1 IgG · Anti-Scl-70 IgG · Anti-Centromeres IgG · Anti-Histones IgG · Anti-Sm/RNP IgG · Anti-Ro-52 IgG · Anti-PM-Scl IgG · Anti-Nucleosome IgG*
Autoimmune – Other	Anti-CCP · RF IgM* · RF IgG* · RF IgA* · RF Screen* · tTG IgA · tTG IgG · DGP IgA · DGP IgG · AMA-M2 IgG · Anti-MPO IgG · Anti-PR3 IgG · Anti-GBM IgG · Anti-Cardiolipin IgG · Anti-Cardiolipin IgM · Anti-Cardiolipin IgA* · Anti-2-Glycoprotein I IgG · Anti-2-Glycoprotein I IgM · Anti-2-Glycoprotein I IgA
Tumor Markers	AFP · CEA · Total PSA · Free PSA · CA 125 · CA 15-3 · CA 19-9 · PAP · CA 50 · CA 242 · CYFRA 21-1 · CA 72-4 · NSE · S-100 · SCCA · TPA-snibe · ProGRP · HE4 · HER-2 · PIVKA-II · Pepsinogen I · Pepsinogen II · Gastrin-17 · AFP-L3%*
Glyco Metabolism	C-Peptide · Insulin · Proinsulin · Anti-IA2 · ICA · IAA (Anti-Insulin) · Anti-GAD (GAD65) · Anti-ZnT8 · Glucagon* · Adiponectin*
Cardiac	CK-MB · Troponin I · Myoglobin · hs-cTnI · hs-CRP · H-FABP · NT-proBNP · BNP · Lp-PLA2 · MPO · Homocysteine (HCY) · sST2*
Coagulation Markers	D-Dimer · TAT · TM · PIC · tPAIC · FDP*
Inflammation	CRP · PCT · IL-6 · SAA · TNF- · IgE · VEGF*
Hypertension	Direct Renin · Aldosterone · Angiotensin I · Angiotensin II · Cortisol · ACTH
Prenatal Screening	AFP (Prenatal Screening) · Free -HCG · PAPP-A
Drug Monitoring	Digoxin · Cyclosporine A · FK 506 (Tacrolimus) · Sirolimus* · Everolimus* · Mycophenolic Acid*
Bone Metabolism & Growth	Calcitonin · Osteocalcin · 25-OH Vitamin D · Intact PTH · -CTx · Total P1NP · PTH (1-84) · BAP* · GH (hGH) · IGF-I · IGFBP-3
Kidney, Liver Fibrosis & Neurology	2-Microglobulin · Albumin · NGAL* · Hyaluronic Acid (HA) · PIIIP N-P · Collagen IV · Laminin · Cholylglycine · GP73 · -Amyloid (1-40/1-42) CSF & Plasma* · Phospho-Tau (181P/217P)* · Total-Tau CSF* · NfL Plasma*
Veterinary	cTSH · cTT4 · cfT4 · cCortisol* · cACTH*
STAT-X (X3)	hs-cTnI* · NT-proBNP* · Myoglobin* · D-Dimer* · PCT* · CRP*

* Available soon. This menu is shared by MAGLUMI 800 and MAGLUMI X3 (X3: 260 assays). Product availability may vary by country and is subject to required regulatory approval.

Wondfo Finecare FIA Meter Plus

WONDFO · Point-of-care fluorescence immunoassay

Fluorescence immunochromatographic analysing system that gives quantitative results in blood or urine within minutes. Suited to laboratory, ER, cardiology, ICU, respiratory and paediatric use. Test cartridges store at room temperature (4–30 °C).

Results	3–15 minutes
Display	8" LCD touch screen
Printer	Built-in thermal printer
Connectivity	Direct LIS / HIS connection
ID chip	Chip carries test item and lot information
Dimensions	270 × 238 × 146 mm
Weight	2.8 kg
Power adapter	100–240 V AC, 50–60 Hz
Features	Unique quick mode; inner temperature control; specially designed sampler for small specimen volumes



Finecare test markers

Class	Test	Condition	Specimen	Time	Linear range	Clinical reference
Infection	PCT	Sepsis	WB / Serum / Plasma	15 min	0.1–100 ng/mL	0–0.5 ng/mL
	CRP (hsCRP + CRP)	Inflammation	WB / Serum / Plasma	3 min	0.5–200 mg/L	CRP 0–10 mg/L; hsCRP 0–1 mg/L
	2-in-1 (CRP + PCT)	Infection & inflammation	WB / Serum / Plasma	15 min	CRP 0.5–150 mg/L; PCT 0.1–100 ng/mL	CRP <10 mg/L; PCT <0.5 ng/mL
	SAA	Infection & inflammation	WB / Serum / Plasma	15 min	1.0–300 mg/L	0–10 mg/L
Coagulation	D-Dimer	Thrombosis	WB / Plasma	5 min	0.1–10 mg/L	0–0.5 mg/L
Cardiac	NT-proBNP	Heart failure	WB / Serum / Plasma	15 min	18–35000 pg/mL	<75 y: 0–300; ≥75 y: 0–450 pg/mL
	cTnI	Myocardial infarction	WB / Serum / Plasma	15 min	0.1–50 ng/mL	0–0.3 ng/mL
	Myoglobin	Myocardial infarction	WB / Serum / Plasma	15 min	2.0–400 ng/mL	0–58 ng/mL
	CK-MB	Myocardial infarction	WB / Serum / Plasma	15 min	0.3–100 ng/mL	0–5 ng/mL
	H-FABP	Myocardial infarction	WB / Serum / Plasma	15 min	1–120 ng/mL	0–7 ng/mL
	3-in-1 (cTnI / Myo / CK-MB)	Myocardial infarction	WB / Serum / Plasma	15 min	As single items	As single items
	BNP	Heart failure	WB / Plasma	15 min	5–5000 pg/mL	0–100 pg/mL
	2-in-1 (cTnI / NT-proBNP)	Myocardial infarction	WB / Plasma	15 min	As single items	As single items
Tumor	AFP	Liver cancer	Serum	15 min	5–400 ng/mL	0–20 ng/mL
	PSA	Prostate cancer	Serum	15 min	2–100 ng/mL	0–4 ng/mL
	CEA	Cancer	WB / Serum / Plasma	15 min	1–500 ng/mL	0–5 ng/mL
Diabetes & Renal	HbA1c	Diabetes mellitus	Whole blood	5 min	4.0–14.5 %	4–6 %
	MAU	Renal injury	Urine	3 min	5–300 mg/L	0–20 mg/L
	CysC	Renal injury	WB / Serum / Plasma	5 min	0.2–10 mg/L	0.5–1.1 mg/L
	NGAL	Renal injury	Urine	15 min	10–1500 ng/mL	≤131.7 ng/mL
	2-MG	Proximal tubule dysfunction	WB / Serum / Plasma	10 min	0.3–20 mg/L	1.0–2.7 mg/L
Fertility	-hCG	Fertility	WB / Serum / Plasma	15 min	2–200,000 mIU/mL	5 mIU/mL

Class	Test	Condition	Specimen	Time	Linear range	Clinical reference
Hormone	T3	Thyroid malfunction	WB / Serum / Plasma	15 min	0.61–9.22 nmol/L	1.3–3.1 nmol/L
	T4	Thyroid malfunction	WB / Serum / Plasma	15 min	12.87–300 nmol/L	66–181 nmol/L
	TSH	Thyroid malfunction	WB / Serum / Plasma	15 min	0.1–100 mIU/L	0.3–4.2 mIU/L

Ongoing development: Vitamin-D, Progesterone, S100, ST2, Lp-PLA2, PAPP-A, LH, FSH, fPSA. Platform marks (brochure): CE, ISO 9001, FSC, NGSP, IFCC.

Haematology

Mindray 3-part and 5-part automated haematology analyzers for small to mid-size labs, plus random-access ESR analysis.

03

Mindray BC Series Hematology Analyzers

MINDRAY · Automated haematology (CBC)

Compact auto hematology analyzers with impedance counting and cyanide-free haemoglobin measurement: BC-20 and BC-20s (3-part differential) and BC-5130 (5-part differential).



BC-20



BC-20s



BC-5130

Model highlights

BC-20

- CBC + 3-part differential; 20 parameters + 3 histograms
- 40 samples/hour; 10.4" TFT touch screen
- Only three reagents needed; detailed flag information
- Up to 100,000 samples stored; 9 µL sample, ideal for paediatrics

BC-5130

- 5-part differential; 25 reportable + 10 research parameters
- Tri-angle laser scatter + chemical dye + flow cytometry
- Dedicated optical channel for basophils; 3 histograms + 3 scattergrams
- 60 samples/hour; 15 µL sample; up to 150,000 results; lyse reagents inside

BC-20s

- 19 parameters + 3 histograms; 8.4" TFT touch screen
- Footprint similar to a 17" laptop; lyse stored inside
- No cleanser or rinse needed – fewer reagents, lower consumption
- WBC, RBC and PLT flags; optional WiFi; up to 200,000 results

Common

- Bi-directional LIS with HL7 over LAN
- USB ports for printer, barcode reader, keyboard, mouse
- Original calibrator and quality controls available
- Capillary whole-blood sampling supported

Mindray BC Series – Technical specifications

Parameter	BC-20	BC-20s	BC-5130
Differential	3-part	3-part	5-part (flow cytometry + laser scatter + chemical dye)
Principles	Impedance (WBC, RBC, PLT); cyanide-free HGB	Impedance (WBC, RBC, PLT); cyanide-free HGB	Impedance (RBC, PLT); cyanide-free HGB; FCM + laser scatter + chemical dye (WBC)
Parameters	20: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR	19: as BC-20 without P-LCR	25 reportable (WBC, Lym, Mon, Neu, Eos, Bas # and %, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC) + 10 research (LIC, ALY, PLT clumps, Lip, NRBC)
Graphics	3 histograms (WBC, RBC, PLT)	3 histograms (WBC, RBC, PLT)	3 histograms + 3 scattergrams (4-diff and 2 for eosinophil)
Throughput	40 samples/hour	40 samples/hour	60 samples/hour
Sample volume	Pre-diluted ≤ 20 µL; whole blood ≤ 9 µL	Pre-diluted 20 µL; whole blood 9 µL	Pre-diluted 20 µL; whole blood 15 µL; capillary WB 15 µL
Reagents	M-30D diluent, M-20CFL lyse, probe cleanser	M-30D diluent, M-30CFL lyse, probe cleanser	Diluent, DIFF lyse, LH lyse, probe cleanser
WBC	Linearity 0–100 ×10&sup9;/L; CV ≤ 3.5% (4.0–6.9), ≤ 2.0% (7.0–15.0); carry-over ≤ 0.5%	Same as BC-20	Linearity 0–500 ×10&sup9;/L; CV ≤ 2% (4–15 ×10&sup9;/L); carry-over ≤ 0.5%
RBC	0–8.00 ×10¹²/L; CV ≤ 2.0% (3.50–6.5); ≤ 0.5%	0–8.00 ×10¹²/L; CV ≤ 1.5% (3.5–6.5); ≤ 0.5%	0–8 ×10¹²/L; CV ≤ 1.5% (3.5–6.0); ≤ 0.5%
HGB	0–280 g/L; CV ≤ 1.5% (100–180); ≤ 0.5%	0–280 g/L; CV ≤ 1.5% (100–180); ≤ 0.5%	0–250 g/L; CV ≤ 1.5% (110–180); ≤ 0.6%
MCV	CV ≤ 1.0% (70.0–110.0 fL)	CV ≤ 1.0% (70–110 fL)	–
PLT	0–1000 ×10&sup9;/L; CV ≤ 5.0% (100–500); ≤ 1.0%	0–1000; CV ≤ 5.0% (100–149), ≤ 4.0% (150–500); ≤ 1.0%	0–5000 ×10&sup9;/L; CV ≤ 4.0% (100–500); ≤ 1.0%
Display	10.4" TFT touch screen	8.4" TFT touch screen	10.4" TFT touch screen
Languages	Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia	Same as BC-20	Chinese, English
Data storage	Up to 100,000 results (numeric + graphical)	Up to 200,000 results	Up to 150,000 results
Communication	LAN, HL7; bi-directional LIS	LAN, HL7; bi-directional LIS	LAN, HL7; uni- or bi-directional LIS
Interface	4 USB + 1 LAN	4 USB + 1 LAN (WiFi adapter optional)	USB, LAN, COM
Printout	Thermal recorder, 50 mm paper	Thermal recorder, 50 mm paper; external printer optional	External laser / inkjet printer; user-defined formats
Environment	15–30 °C; 10–90% RH; 70–106 kPa	10–40 °C; 10–90% RH; 70–106 kPa	10–30 °C; 20–85% RH; 70–106 kPa
Power	100–240 V ±10%, ≤ 180 VA, 50/60 Hz	100–240 V, ≤ 300 VA, 50/60 Hz	100–240 V, 50/60 Hz
Dimensions (D×W×H)	410 × 300 × 400 mm	410 × 300 × 400 mm	400 × 320 × 410 mm
Weight	≤ 20 kg	≤ 20 kg	24 kg

ZBT-ESR DT10

PATHOWORLD · Erythrocyte sedimentation rate analyzer

Random-access ESR analyzer using infrared LED detection and a modified Westergren method – a green solution with reduced waste and lower expenses.

Principle	Infrared LED detection
Analysis method	Modified Westergren
Reading channels	10
Sample type	Whole blood in EDTA / CBC tube (1.5–3.0 mL)
Loading	Random
Analysis time	20 minutes



Throughput	30 tests / hour
Measurement range	1 – 140 mm / hour
Resolution / accuracy	± 0.1 mm / ± 1 mm
Reproducibility	C.V. < 5%
Results	Westergren method at 18 °C as per Manley table, mm/hour
Memory	10,000 sample results
Display	10" / 7" colour LCD touch screen
Patient ID	Alphanumeric up to 16 digits; manual or USB barcode scanner
Printer / interface	Thermal printer; RS-232, HL7 protocol
Dimensions / weight	189 × 282 × 231 mm; 4.0 kg
Power	110–230 V AC, 50/60 Hz
Environment	15–30 °C, 20–80 % RH non-condensing
Standards (brochure)	ISO 13485, US FDA registered, CDSCO registered, CE certified, RoHS compliant
Product codes	ZBT10 analyzer | ZBTRT500 recharge test 500 Nos | ZA01 barcode reader | ZBPRT thermal printer | ZPRL printer paper roll

Coagulation

Semi-automated optical coagulation testing for routine haemostasis analysis.

04

ZellCLOT

PATHOWORLD · Semi-automated coagulation analyzer

Semi-automated coagulation analyzer designed for all types of haemostasis analyses on a single device.

Principle	Optical LED detection (620 nm), 1 optical channel
Coagulation tests	PT, APTT, TT, FIB
Display	4" colour LCD touch screen; real-time clock
Incubation	Reagent: 3 × 22 mm and 2 × 11 mm positions; cuvette incubation: 20
Memory	9999 results



Quality control	2-level QC program with L-J graph
Calibration	5-point calibration
Result handling	Result reprint; current test graph
Patient ID	Alphanumeric up to 16 digits; manual or USB barcode scanner
Interface / printer	RS-232, 2 USB ports; thermal printer
Dimensions / weight	275 × 140 × 80 mm; 1.3 kg
Power	110–230 V AC, 50/60 Hz
Environment	15–30 °C, 35–80 % RH non-condensing
Standards (brochure)	ISO 13485, US FDA registered, CDSCO registered, CE certified, RoHS compliant
Product codes	ZCT01 ZellClot-01 | ZCT1000 ZCT card 1000 | ZBPRT thermal printer

Microbiology & Fungal Diagnostics

Colorimetric auto blood culture systems and bottles from DL Biotech, plus Bio-state FungiXpert fungal diagnostics: an immunochromatography analyzer and an Aspergillus galactomannan ELISA kit.

05

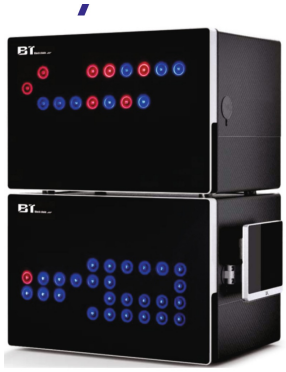
Auto Blood Culture Systems BT24 / BT60

DL BIOTECH · Blood culture instruments

Compact, expandable blood culture incubation and monitoring: control, incubation module and monitor in one unit. Capacity from 24 to 240 cells, with incubation modules that can be placed in ICU, Emergency or Outpatient wards and connected by IoT (satellite network).



Model BT24 (24 cells)



Model BT60 modular (60 cells)

Test principle	Colorimetry; bottles detected every 10 minutes by independent detectors during continuous swinging vibration
Sample types	Blood and various sterile body fluids
Software	Windows 10 with touch screen; LIS connection; data analysis and statistics; double barcode management; built-in barcode scanner; printing
Alarms	Audio, door-light flash and screen flash
Algorithm	Multiple AI algorithms to shorten time to positive
Temperature control	Independent cell heaters to avoid temperature drop and support fast microbial growth
Models / capacity	BT24, BT48, BT60, BT120, BT180, BT240 (24, 48, 60, 120, 180, 240 cells)
Power / ambient	100–240 V, 50/60 Hz ± 1 Hz; 10–30 °C

	BT24	BT60	Incubation module (24)	Incubation module (60)
Instrument size	417×271×262 mm	580×376×361 mm	378×264×262 mm	540×376×361 mm
Packing size	420×550×480 mm	698×506×561 mm	420×550×480 mm	698×506×561 mm
Gross weight	18 kg	55 kg	18 kg	55 kg
Handling	3–6 bottles	10–15 bottles	3–6 bottles	10–15 bottles
Capacity	24 cells	60 cells	24 cells	60 cells

DL Auto Blood Culture Bottles

DL BIOTECH · Blood culture media

Culture media designed for automated blood culture detection: aerobic, anaerobic and children's (paediatric) bottles with antimicrobial neutralisation, resin beads, and high-nutrition media with X and Y factors.

- Neutralises a wide variety of antimicrobials to improve recovery rate and shorten time to positive
- Resin beads lyse WBC and release bacteria; colourless beads do not interfere with microscope examination
- High-nutrition ingredients with X factor and Y factor
- Up to 48-hour delayed vial entry; negative cultures should be incubated for 5 days
- For IVD use only and single use



Product	REF	Pack	Blood volume	Storage
Aerobic Blood Culture Bottle I-1	2610001011	40 vials/box	8–10 mL	15–30 °C
Anaerobic Blood Culture Bottle II-1	2610002007	40 vials/box	8–10 mL	15–30 °C
Children's Blood Culture Bottle III-1	2610003004	40 vials/box	1–3 mL	15–30 °C

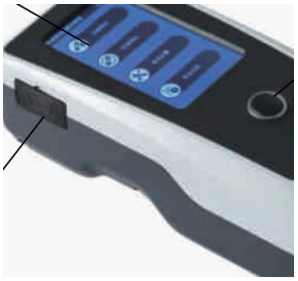
Handling: use aseptic technique and disinfect the collection site; do not use expired, turbid, discoloured, damaged or leaking bottles; dispose of used bottles per biomedical-waste procedures. A positive result indicates microbial growth but does not identify the organism. Manufacturer (per IFU): Zhuhai DL Biotech Co., Ltd., Zhuhai, Guangdong, China. Verify current regulatory status before tender submission.

Bio-state GIC-H1W Immunochromatography Analyzer

BIO-STATE · Fungal diagnostics

Handheld photoelectric-detection analyzer for colloidal-gold immunochromatography strip tests, used for detection in human samples. Small size, big effect.

Name / model	Immunochromatography Analyzer, GIC-H1W
Size / weight	220 × 100 × 75 mm (L×W×H); 0.5 kg



Principle	Photoelectric detection with colloidal-gold immunochromatography paper strip
Structure	Touch screen, key, COM port, USB port, ID card port, reagent card slot
Test menu	Aspergillus Galactomannan Test · Aspergillus IgG Antibody Test · Aspergillus IgM Antibody Test · Candida Mannan Test · Candida IgG Antibody Test · Candida IgM Antibody Test · Cryptococcal Capsular Polysaccharide Test

FungiXpert Aspergillus Galactomannan (GM) ELISA Kit

BIO-STATE · Fungal diagnostics (ELISA)

Aspergillus Galactomannan ELISA detection kit, product code FGM096-001. One-step detection reduces incubation and washing; results in about 2 hours; split microplate for cost saving.

Method	ELISA
Sample type / volume	Serum, BAL fluid; 300 µL
Kit size	96 tests per kit
Detection time	2 hours



Detection object	Aspergillus spp.
Limit of detection	0.5 ng/mL
Sensitivity	Serum 89.8% | BAL 92.4%
Specificity	Serum 90.7% | BAL 94.1%
Stability	1 year at 2–8 °C
Guideline support	Recommended by IDSA aspergillosis guideline 2016 and ESCMID-ECMM-ERS guideline 2018 (per brochure)

Molecular Diagnostics & Rapid Tests

CoSara Diagnostics SARAGENE, SARAPLEX and SARAQ real-time PCR kits, extraction kits, PCR instruments and rapid card tests.

06

CoSara Real-time PCR Kits & Instruments

COSARA DIAGNOSTICS · Molecular assays

Ready-to-use master-mix kits: qualitative singleplex, smart multiplex, quantitative viral-load and comprehensive syndromic panels, plus nucleic acid extraction and PCR instruments.

SARAGENE qualitative real-time PCR kits

Product	Cat. No.	Pack size (reactions)
SARAGENE MTB (Mycobacterium tuberculosis)	CSD/MTB/0025/50/100/250	25/50/100/250
SARAGENE MTB/NTM	CSD/MTN/0025/50/100	25/50/100
SARAGENE HPV 16/18	CSD/HPV/0025/50/100/250	25/50/100/250
SARAGENE HPV High-Risk (14 HR)	CSD/HPH/0025/50/100/250	25/50/100/250
SARAGENE HPV High-Risk Genotyping (14 HR)	CSD/HPG/0025/50/100/250	25/50/100/250
SARAGENE Hepatitis C Virus (HCV)	CSD/HCV/0025/50/100/250	25/50/100/250
SARAGENE Hepatitis B Virus (HBV)	CSD/HBV/0025/50/100/250	25/50/100/250
SARAGENE COVID-19 V2	CSD/CVD/0025/50/100/250	25/50/100/250
SARAGENE Chikungunya Virus	CSD/CHIKV/0025/50/100/250	25/50/100/250
SARAGENE Dengue Virus	CSD/DENV/0025/50/100/250	25/50/100/250
SARAGENE Malaria	CSD/MAL/0025/50/100/250	25/50/100/250
SARAGENE HLA-B27	CSD/HLA/0025/50/100/250	25/50/100/250
SARAGENE Human Metapneumovirus	CSD/HMP/0025/50	25/50
SARAGENE Influenza A H1N1	CSD/H1N/0025/50/100/250	25/50/100/250

SARAPLEX smart multiplexing solutions

Product	Cat. No.	Pack size (reactions)
SARAPLEX Dengue–Chikungunya Multiplex	CSD/DCC/0025/50/100/250	25/50/100/250
SARAPLEX ABC (Flu A, Flu B & COVID-19)	CSD/ABC/0025/50/100/250	25/50/100/250
SARAPLEX Zika–Dengue–Chikungunya (ZDC)	CSD/ZDC/0025/50/100/250	25/50/100/250
SARAPLEX Influenza Multiplex (Flu A/B/H1N1/H3N2)	CSD/IFM/0025/50/100/250	25/50/100/250
SARAPLEX FRC (Flu A/B/H1N1/H3N2, RSV & COVID-19)	CSD/FRC/0025	25
SARAPLEX Malaria–Dengue–Chikungunya (MDC)	CSD/MDC/0025/50	25/50
SARAPLEX STI Panel (CT/NG/MG/TV)	CSD/STI/0025/50/100/250	25/50/100/250

SARAQ quantitative kits

Product	Cat. No.	Pack size (reactions)
SARAQ HBV Viral Load	CSD/HBQ/0025/50/100/250	25/50/100/250
SARAQ HCV Viral Load	CSD/HCQ/0025/50/100/250	25/50/100/250
SARAQ BCR-ABL (Quantitative)	CSD/BCR/0025	25

Product	Cat. No.	Pack size (reactions)
SARAQ CMV Viral Load	CSD/CMV/0025	25
SARAQ Adenovirus (Quantitative)	CSD/ADE/0025	25

SARAPLEX comprehensive multiplex panels

Product	Cat. No.	Pack size (reactions)
SARAPLEX Fever Panel (10 pathogens)	CSD/FEP01/0025	25
SARAPLEX Fever Panel-Ultra (20 pathogens)	CSD/FEP02/0025	25
SARAPLEX Viral Respiratory Panel (18 viral pathogens)	CSD/VRP/0025	25
SARAPLEX Respiratory Panel (17 viral + 13 bacterial)	CSD/REP/0025	25
SARAPLEX Sepsis Panel (10 targets)	CSD/SEP/0025	25
SARAPLEX Anti-microbial Resistance (NDM/VIM/KPC/IMP/OXA)	CSD/AMR/0025/50	25/50

Extraction kits, instruments & consumables

Product	Cat. No.	Pack
SARAGENE Nucleic Acid Extraction Kit	CSD/EXU/0100	100 preparations
SARAGENE Blood RNA Extraction Kit	CSD/BEX/0100	100 preparations
Co-Dx Box Magnetic Induction Cycler (micPCR) instrument	CSD/MIC/0001	1 instrument
micTubes PCR tubes for Co-Dx Box	CSD/MTU/0001	960 tubes
CoSara PCR Pro (cartridge-based PoC real-time PCR system)	CSD/PRO/0001	1 instrument
CoSara PCR Sample Prep Device (launching soon)	CSD/LYS/0001	1 instrument

CoSara Rapid Card Tests

COSARA DIAGNOSTICS · Rapid tests

SARAGENE and SARAPLEX lateral-flow card tests for rapid screening.

Product	Cat. No.	Pack size
SARAGENE HIV (1/2) Card Test	RPHI01	50 tests
SARAGENE HBsAg (HEPA) Card Test	RPHB01	50 tests
SARAGENE HCV Card Test	RPHC01	50 tests
SARAGENE Syphilis Card Test	RPSY01	50 tests
SARAGENE Malaria (Pf-HRP II / Pv-pLDH) Antigen Card Test	RPMA01	50 tests
SARAGENE Dengue Antigen – NS1 Card Test	RPDE01	25 tests
SARAGENE Typhoid IgG/IgM Card Test	RPTY01	25 tests
SARAGENE Troponin-I Card Test	RPTR01	10 tests
SARAPLEX Dengue Combi Pak (NS1 Ag + IgG/IgM Ab) Card Test	RPCO01	10 tests

Regulatory status and product availability vary by country; products may not be sold in all jurisdictions. SARAGENE, SARAPLEX, SARAQ and CoSara are registered trademarks of CoSara Diagnostics Pvt. Ltd. Co-Dx Box is a trademark of Co-Diagnostics, Inc.

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