

BIOBASE

Clinical Analytical Instruments Catalog



Biobase Biodustry (Shandong) Co., Ltd.
Biobase Meihua Trading Co. Ltd

Add: No.51 South Gongye Road ,Jinan City ,China
Tel: +86-531-81219801/03 Fax:+86-531-81219804
E-mail: export@biobase.cn
Web:www.biobase.cc www.meihuatrade.com

Biobase Biodustry (Shandong) Co., Ltd.
Biobase Meihua Trading Co. Ltd

Introduction

BIOBASE is professional manufacturer of laboratory and medical products since 1999. Our main products are:

Medical products:

Automated biochemistry analyzer, IVD Reagents, Automated ELISA processor, Microplate reader & Washer, Hematology analyzer, Electrolyte analyzer, Urine analyzer, Water purifier, etc.

Lab products:

Biological safety cabinet (Class I, II, III), Fume hood, Laminar flow cabinet, PCR cabinet, Incubator, Refrigerator & Freezer, Water bath, Drying oven, HEPA air purifier, etc.

We have more than 800 employees, 20000 square meters production base. The wide experience on the research and manufacturing Lab and Medical products has managed BIOBASE to be able to offer a large and competitive range of products with the highest quality.



ISO13485



ISO14001



ISO9001



CE



SGS



CONTENT

	BIOBASE1000 Automated ELISA Processor.....	1
	BIOBASE2000 Automated ELISA Processor.....	3
	Auto Microplate Washer.....	5
	ELISA Microplate Reader.....	7
	BIOBASE-SAPPHIRE Auto Biochemistry Analyzer.....	9
	BIOBASE-CRYSTAL Auto Biochemistry Analyzer.....	11
	BIOBASE-DIAMOND Auto Biochemistry Analyzer.....	13
	BIOBASE-Silver Semi-Biochemistry analyzer.....	15
	BIOBASE-Silver Plus Semi-Biochemistry analyzer.....	16
	Hematology Analyzer.....	17
	BIOBASE Biochemistry Reagents.....	19
	Water Purifier.....	20

BIOBASE 1000 Automated ELISA Processor

BIOBASE1000 Elisa Processors is fully automated two-plate ELISA processing system capable of adding sample, incubation, washing and data processing.

It is complete solution for your IVD ELISA assays. The system combines a high precision pipetting unit with stable incubators and efficiency washers and photometer unit.

BIOBASE1000 Modularity

- 1 Robotic hand.
- 1 Pipetting probe, 1ul stepping (1000ul volumes).
- 80 Sample rack, 92 Dilution rack.
- 2 units 96 well microplate (pipetting, incubating, reading).
- 1 unit independent washer&reader (two 8 nozzle manifolds).



Testing Range:

- | | |
|--|---|
| ✓ TORCH SERIES
Toxo, RV, CMV, HSV etc. | ✓ THYROID AUTOIMMUNITY SERIES
T3, T4, FT3, TSH etc. |
| ✓ HEPATITIS SERIES
HAV, HBV, HCV, HDV, HEV etc. | ✓ ENDOCRINE SERIES
E2, E3, LH, FSH, HCG, Pro, PRL etc. |
| ✓ VENEREAL SERIES
HIV, TP, MP, CT etc. | ✓ TUMOR MARKER SERIES
CEA, AFP, PSA, F-PSA, CAL9-9, CAL 25, CA15-3, CA242. |

Technical Parameters:

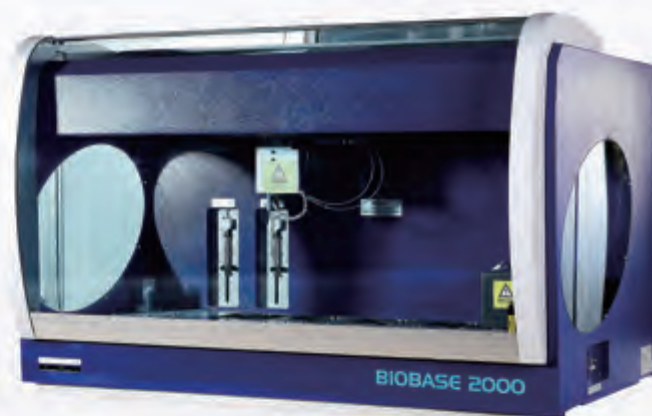
Model	Biobase1000	
Sample pipetting unit	Sample rack	80 sample tubes(12 mm)
	Primary sample tubes	12*75mm
	Pipetting	8ul~1000ul, (10ul) CV<5%
	Dispensing system	1 aspirating-dispensing probe with X-Y-Z movement; dilution system with a syringe of 1000ul, continuous flow washing station.
Reagent pipetting unit	Reagent racks	8 special reagent racks, 1 general reagent racks
	Removable trays	modular racks to hold calibrators, controls and reagents for 8 test on line
	Pipetting	8ul~1000ul, 1ul stepping.
	Pipetting precision	(100ul) CV≤0.2~1%
Incubation unit	Time to dispense	4 minutes(typical)*100ul of 96 reagents to plate from reagent bottle
	Incubators	2 independent units
	Temperature range	RT to 45 °C
	Temperature accuracy	±0.2℃
Washing unit	Adjustment step size	±0.1℃
	Programmable	Yes(options & parameters)
	Wash containers	2 wash buffers at 2.0L, with level-sensing
	Washing system	two 8 nozzle manifolds, one to dispense and the other one to aspirate;
Reading unit	Washing residual	<2μl
	Reading system	8 independent photometric channels with mono and dichromatic reading capability
	Photometric range	0.000 ~3.000 OD
	Spectral range	400-700nm
Software unit	Optical filters	2 precision filters (450,630nm); 2 more on request (4 filters max, 400-700nm)
	Software system	Windows XP or Windows 7 or above, LIS system available
	Function application	work list set up, patient reports and result filing; calibration curve
	Data reduction	storage for each carried out test cut-off (qualitative)
Physical Specification	Dimensions	790x610x650mm (W*D*H)
	Power Supply	AC110/220V±10%, 50/60Hz
	Weight	80kg
	Consumption	500W

BIOBASE 2000

Automated ELISA Processor

BIOBASE2000 Elisa Processors is fully automated Four-plate ELISA processing system, capable of sampling, incubation, washing and data processing.

It is complete solution for your IVD ELISA assays. The system combines a high precision pipetting unit with stable incubators and efficiency washers and photometer unit.



BIOBASE 2000 Modularity

- 1 Robotic hand.
- 2 Pipetting probe, 1ul stepping (1000ul volumes).
- 169 Sample rack, 144 Dilution rack.
- 10 special reagent racks, 2 general reagent racks.
- 4 units 96 well microplate(pipetting, incubator, reading).
- 1 unit independent washer&reader(two 8 nozzle manifolds).

Testing Range:

- | | |
|--|---|
| ✓ TORCH SERIES
Toxo, RV, CMV, HSV etc. | ✓ THYROID AUTOIMMUNITY SERIES
T3, T4, FT3, TSH etc |
| ✓ HEPATITIS SERIES
HAV, HBV, HCV, HDV, HEV etc. | ✓ ENDOCRINE SERIES
E2, E3, LH, FSH, HCG, Pro, PRL etc. |
| ✓ VENEREAL SERIES
HIV, TP, MP, CT, etc. | ✓ TUMOR MARKER SERIES
CEA, AFP, PSA, F-PSA, CAL9-9, CAL 25, CA15-3, CA242. |

Technical Parameters:

Model	Biobase2000	
Sample pipetting unit	Sample rack	169 sample tubes(12 mm)
	Primary sample tubes	12*75mm
	Pipetting	8ul~1000ul, (10ul) CV<5%
	Time to dispense	15 minutes (typical)^100ul of 96 reagents to plate from sample tubes or dilution tubes.
Reagent pipetting unit	Dispensing system	1 aspirating-dispensing probe with X-Y-Z movement; dilution system with a syringe of 1000ul, continuous flow washing station.
	Reagent racks	10 special reagent racks, 2 general reagent racks
	Removable trays	modular racks to hold calibrators, controls and reagents for 10 methods on line
	Pipetting	8ul~1000ul, 1ul stepping,
Washing unit	pipetting precision	(100ul)CV≤0.2~1%
	Time to dispense	2 minutes(typical)^100ul of 96 reagents to plate from reagent bottle
	Programmable	Yes(options & parameters)
	Wash containers	4 wash buffers at 2.0L, with level-sensing
Reading unit	Waste containers	10L with waste full sensor
	Washing system	two 8 nozzle manifolds, one to dispense and the other one to aspirate;
	Washing residual	<2μl
	Reading system	8 independent photometric channels with mono and bichromatic reading capability
Incubation unit	Photometric range	0.000 ~3.000 OD
	Spectral range	400-700nm
	Optical filters	2 precision filters (450and 630nm); 2 more on request (4 filters max, 400-700nm)
	Reading inaccuracy	inaccuracy±1% from 0.000 to 1.500 OD, ±2% from 1.500 to 3.000 OD
Software unit	Incubators	4 independent units
	Programmable	Yes
	Temperature range	RT to 45 °C
	Temperature accuracy	±0.2°C
Physical Specification	Adjustment step size	±0.1°C
	Software system	Windows XP or Windows 7 or above, LIS system available
	Function application	work list set up, patient reports and result filing; calibration curve storage for each carried out test
	Data reduction	cut-off (qualitative)
	Dimensions	1130x750x770mm (W*D*H)
	Power Supply	AC110/220V+ 10%, 50/60Hz
	Weight	120kg
	Consumption	500W

AUTO Microplate Washer

Controlled by Microprocessor, precise and easy to use, Biobase Washer can automatically accomplish the single and multi-row microplate washing.



Microplate Washer

Features:

1. It can be adapted to the 96- and 48-well Microplates.
2. Regulates rinse position of cleaning head according to user requirements.
3. Chooses to set washing parameters for different effects.
4. External programming/downloading available through RS-232 ports.

Working Environment:

1. Environment:
 - a) Operating Temperature: 15° C to 30° C;
 - b) Relative humidity: ≤80%
 - c) Range of atmospheric pressure: 86.0kPa~106.0kPa
 - d) Surrounding environment: Non-corrosive gases, no mechanical vibration and no strong magnetic field interference.
2. Electrical: 220+22Volts AC 50+1Hz
3. Power: ≤80W

Technical Parameters:

Model	Biobase-9621	Biobase-9622
Microplate Types	48-well, 96-well	48-well, 96-well
Washing	Automatic washing 5 ways	Automatic washing 5 ways
Washing the row number of microplate	1 row per time 1- 12 rows	2 row per time 1- 12 rows
Average Residue	2ul per well	2ul per well
Dispense Precision	≤3% CV	≤3% CV
Shaking	5 ways	5 ways
Memory	100 programs	100programs
Wash Cycles	1-20	1-20
Soak Time	Programmable in seconds, up to 20 minutes.	Programmable in seconds, up to 20 minutes.
Anti-overflow	Excess fluid is automatically discharged.	Excess fluid is automatically discharged.

Accessory:

Power Cord, Fuse Tube, Wash Bottle, Waste Bottle, Pass Needle, Silicone Tube, Cleaning head, Manual, Warranty Card

ELISA Microplate Reader

Advantage:

1. Good repeatability: $CV \leq 0.3\%$
2. Good stability: $\leq \pm 0.003$
3. Having vibration plate function with 5 vibration plate speeds adjustable and 0 ~255s time adjustable.
4. Large LCD touch screen display, able to monitor, save and print testing results directly.



BIOBASE-EL10



BIOBASE-EL10A

BIOBASE EL-10A (touch LCD display) and BIOBASE EL-10 ELISA

microplate reader have excellent performance of accuracy and stability.

It is widely used in the fields of hospital clinical diagnosis, immune pathology testing, microbial antigen and antibody detection, parasitic diseases diagnosis, blood disease diagnosis, endocrine disorder measure, plant diseases and insect pests Studies etc.

1. Medical Fields:

Hepatitis test series: HAV, HBV, HCV, HDV, HEV, HGV, AIDS (HIV), Syphilis (TP), TORCH, Thyroid hormone series, Sex hormone test series

2. Food and feed Fields:

Chloramphenicol, Aflatoxin, Melamine, Pesticide residue, etc.

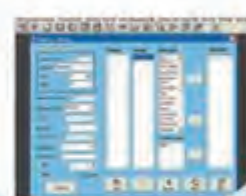
3. Laboratory Fields:

The ingredient content of lab experiment items, etc.

Technical Parameters:

Model	BIOBASE-EL 10	BIOBASE-EL 10A
Type	Semi-automatic	Fully automatic
Light source	Halogen tungsten Lamp (6V/10W), ≥ 3000 hours	Halogen tungsten Lamp (12V/20W), ≥ 3000 hours
Detector	Photomultiplier Tube	Silicon photocell
Plate type	Any format	48-well, 96-well microplates
Wavelength range	400-700nm	400-750nm
Optical filter	450, 492, 630nm, other wavelengths optional	405, 450, 492, 630nm, other wavelengths optional
Absorbance range	0.000-3.000Abs	0.000-4.000Abs
Measurement mode	Manual single-wavelength(vertical single-optical-channel)	Automatic Single-wavelength, dual-wavelength end point method
Calculation mode	Qualitative(S/CO, P/N, N/P, Inhibitory rate, etc) and Quantitative analysis	Open type qualitative determination and quantitative analysis
Repeatability	$CV \leq 1\%$	$CV \leq 0.3\%$
Stability	$\leq \pm 1\%$	$\leq \pm 0.3\%$
Resolution	0.001Abs(display, print); inner calculating 0.0001Abs	0.001Abs(display, print); inner calculating 0.0001Abs
Reading rate	--	6s/96 well plate, single wavelength
Vibration plate	--	5 Grade speeds adjustable, time 0-255s adjustable
Operating mode	Membrane keypad	Touch screen keypad
Interface	--	RS232, USB printer interface
Display	4*12 LCD display	6 Large LCD touch screen display
Printer	Built-in	External wide-line printer
Power supply	AC220V $\pm$ 22V, 50 $\pm$ 1Hz	AC220V $\pm$ 22V, 50 $\pm$ 1Hz

Auto Biochemistry Analyzer BIOBASE-CRYSTAL



Software



Reagent



Water Purifier

Features:

1. Fully automated, Discrete, Random access.
2. Total open setting of items; supported different reagents from different countries
3. Reversed optics and stable photosensor make sure the precision of results.
4. Precision dispense pumps assures the accuracy of a trace of samples, sample step by 0.1 μ l, reagent step by 1 μ l.
5. Refrigerated reagent tray, continuous cooling within 24 hours.
6. Onboard capacity of 49 samples position, 56 reagent position.
7. Automatic probe cleaning inside and outside, with liquid level detection.
8. 24 hour non-stop working, convenient emergency function with inserting emergency at random.
9. Perfect function of quality control management, convenient for users to manage the clinical test result.
10. Detecting in the whole reaction process with reaction curve, convenient for users to monitor thoroughly and analyze the detection data scientifically.
11. User-friendly software, easy to learn and operate, test report printed conveniently.

Technical Parameters:

Overall performance	Model	DAS 150
	Type	discrete, fully automatic
	Throughput	150 test per hour
	Analysis Method	end-point, fixed-time (two-point), kinetics
Sample unit	Programming Items	programmable for any test items
	Sample Settings	49 sample positions, including calibration, quality control and emergency, primary tubes and serum is available
	Sample Volume	2 μ l ~50 μ l (0.1 μ l stepping)
	Sample Probe	Having liquid level induction function, ensuring the accuracy of adding sample
Reagent unit	Probe cleaning	Automatic washing both interior and exterior
	Reagent Position	56 refrigerated reagent position
	Reagent Volume	R1:25~300 μ l, R2:10~150 μ l (1 μ l stepping).
	Temperature Control	continuous 2C~8C cooling within 24 hours.
Reaction unit	Reagent Probe	Having liquid level induction function, ensuring the accuracy of adding reagent. Inventory checking
	Probe cleaning	Automatic washing both interior and exterior
	Cuvettes	120 independent reaction cuvettes (optical path length 6mm).
	Mixer	after injecting reagent and sample, mixing immediately.
Optical System	Washing	automatic washing and drying system.
	Temperature Control	37C $\pm$ 0.1C
	System Adjustment	system can record the blank value and get more accurate result by deducting blank base value of each cuvette.
	Light Source	12V/20W halogen-tungsten lamp, 2000 hours
Calibration and QC	Receiver	8 stable photo receivers
	Wavelength Range	340,405,450,510,546,578,630,700(three of them can be defined by users), adopting reversed optics
	Testing Wavelength	single and double wavelength test
	Calibration	one-point, multi-point
Software	Linear Range	0.000~2.500Abs
	Quality Control	Inserting quality control at random.6 quality controls can be reached with one item
	Software	Windows XP or above, sample and easy to operate
	Emergency Function	emergency sample can be placed in the sample tray at any time
Others	Data Processing	Having reaction curve detection and data display function in the whole process
	Working emperature	15C~30C
	Humidity	35%~80%
	Power Supply	110/220V+ 10%,50/60Hz
	Package size	1200mm $\times$ 730mm $\times$ 950mm (W*D*H)
	Weight	90kg

BIOBASE-CRYSTAL Auto Biochemistry Analyzer



Features:

1. Fully automated, Discrete, Random access
2. Total open setting of items, supported different reagents from different countries.
3. Reversed optics and imported photo sensor make sure the precision of detection results.
4. Microsring injector imported from Germany assures the veracity of a trace of samples, sample step by 0.1 UL, reagent step by 1 UL
5. 24 hour non-stop working, convenient emergency function with inserting emergency at random.
6. Implementing analysis of ultra-trace reaction solution to 180 UL, and saving more reagents.
7. Discrete cuvette, preventing from cross-infection, and be washed and reused, making sure accurate result and save cost.
8. Perfect self-detection function makes sure the analyzer in order and accurate result.
9. Software is easy to learn and use. And test report can be printed.
10. Perfect function of quality control management is convenient for users to manage the clinical test result.
11. Detecting in the whole reaction process with reaction curve, convenient for users to monitor thoroughly and scientifically analyze the detection data.
12. Supporting software can implement the function of detecting surplus reagent through liquid level induction of reagent probe.

Technical Parameters

Overall Performance	Model	BIOBASE-CRYSTAL
	Type	Discrete, Fully automatic
	Throughput	300T/H
	Analysis Method	End-point, Fixed-time, Rate
	Programming Items	programmable for any test items
	Certification	CE, FDA, ISO9001, ISO14001, ISO13485
	Sample Settings	60 sample positions, including calibration, quality control and emergency, primary tubes and serum is available
Sample unit	Sample Volume	2ul ~50ul (0.1ul stepping)
	Sample Probe	Having liquid level induction function, ensuring the accuracy of adding sample
	Probe cleaning	Automatic washing both interior and exterior
Reagent unit	Analysis Items	analyzing maximally 45 items at the same time
	Reagent Position	45 low-temperature refrigerated reagent position
	Reagent Volume	R1:25~300ul, R2:10~150ul (1ul stepping), supporting reagent from different countries
	Temperature Control	continuous 2C~8Ccooling within 24 hours
	Reagent Probe	Having liquid level induction function, ensuring the accuracy of adding reagent. Inventory checking
	Probe cleaning	Automatic washing both interior and exterior
	Reaction Time	10 minutes Temperature Control 37C±0.1C
Reaction unit	Cuvettes	120 independent reaction cuvettes (optical path length 6mm)
	Stirrer	after injecting reagent and sample, blending immediately
	Cleaning	automatic water cleaning and drying system
	System Adjustment	System can record the blank value and get more accurate result by deducting blank base value of each cuvette
Optical System	Light Source	12V/30W halogen-tungsten lamp, 2000 hours
	Receiver	8 precision photo receivers
	Wavelength Range	340,405,450,510,546,578,630,700nm
Calibration and QC	Calibration	one-point,multi-point Linear Range 0.000~2.500Abs
	Quality Control	Inserting quality control at random.6 quality controls can be reached with one item
Software	Emergency Function	emergency sample can be placed in the sample tray at any time
	Software	Windows 2000 or Windows XP or above, sample and easy to operate
	Data Processing	Having reaction curve detection and data display function in the whole process
Others	Power Supply	AC220V+22V 50Hz+1Hz
	Dimension	1020mm×830mm×1200mm (W*D*H)
	Weight	150kg

BIOBASE-DIAMOND Auto Biochemistry Analyzer



Features:

1. Fully automated, Discrete, Random access
2. Total open setting of items, supported different reagents from different countries.
3. Reversed optics and imported photosensor make sure the precision of detection results.
4. Microsring injector imported from Germany assures the veracity of a trace of samples, sample step by 0.1 UL, reagent step by 1 UL
5. 24 hour non-stop working, convenient emergency function with inserting emergency at random.
6. Implementing analysis of ultra-trace reaction solution to 180 UL, and saving more reagents.
7. Discrete cuvette, preventing from cross-infection, and be washed and reused, making sure accurate result and save cost.
8. Perfect self-detection function makes sure the analyzer in order and accurate result.
9. Software is easy to learn and use. And test report can be printed.
10. Perfect function of quality control management is convenient for users to manage the clinical test result.
11. Detecting in the whole reaction process with reaction curve, convenient for users to monitor thoroughly and scientifically analyze the detection data.
12. Supporting software can implement the function of detecting surplus reagent through liquid level induction of reagent probe.

Technical Parameters:

Overall Performance	Model	BIOBASE-DIAMOND
	Type	Discrete, Fully automatic
	Throughput	400T/H
	Analysis Method	End-point, Fixed-time, Rate
	Programming Items	programmable for any test items
	Certification	CE, FDA, ISO9001, ISO14001, ISO13485
Sample unit	Sample Settings	90 sample positions, including calibration, quality control and emergency, primary tubes and serum is available
	Sample Volume	2ul ~50ul (0.1ul stepping)
	Sample Probe	Having liquid level induction function, ensuring the accuracy of adding sample
Reagent unit	Probe cleaning	Automatic washing both interior and exterior
	Analysis Items	analyzing maximally 45 items at the same time
	Reagent Position	R1:45 R2:45 total 90 low-temperature refrigerated reagent position
	Reagent Volume	R1:25~300ul, R2:10~150ul (1ul stepping), supporting reagent from different countries
	Temperature Control	continuous 2C~8Ccooling within 24 hours
	Reagent Probe	Having liquid level induction function, ensuring the accuracy of adding reagent. Inventory checking
Reaction unit	Probe cleaning	Automatic washing both interior and exterior
	Reaction Time	10 minutes Temperature Control 37C±0.1C
	Cuvettes	120 independent reaction cuvettes (optical path length 6mm)
	Stirrer	after injecting reagent and sample, blending immediately
	Cleaning	automatic water cleaning and drying system
Optical System	System Adjustment	System can record the blank value and get more accurate result by deducting blank base value of each cuvette
	Light Source	12V/30W halogen-tungsten lamp, 2000 hours
	Receiver	8 precision photo receivers
Calibration and QC	Wavelength Range	340,405,450,510,546,578,630,700nm
	Calibration	one-point,multi-point Linear Range 0.000~2.500Abs
Software	Quality Control	Inserting quality control at random.6 quality controls can be reached with one item
	Emergency Function	emergency sample can be placed in the sample tray at any time
	Software	Windows 2000 or Windows XP or above, sample and easy to operate
	Data Processing	Having reaction curve detection and data display function in the whole process
Others	Power Supply	AC220V+22V/50Hz+1Hz
	Dimension	1070mm×910mm×1230mm (W*D*H)
	Weight	180kg

BIOBASE-EMERALD Auto Biochemistry Analyzer



Features:

1. Fully automated, Discrete, Random access, STAT priority, real-time dual wavelength.
2. Total open setting of items, supported different reagents from different countries.
3. Reversed optics and imported photo sensor make sure the precision of detection results.
4. Microsyringe injector imported from Germany assures the veracity of a trace of samples, sample step by 0.1 UL, reagent step by 0.5 UL.
5. 24 hour non-stop working, convenient emergency function with inserting emergency at random.
6. Implementing analysis of ultra-trace reaction solution to 100 UL, and saving more reagents.
7. Discrete cuvette, preventing from cross-infection, and be washed and reused, making sure accurate result and save cost.
8. Perfect self-detection function makes sure the analyzer in order and accurate result.
9. Software is easy to learn and use. And test report can be printed.
10. Perfect function of quality control management is convenient for users to manage the clinical test result.
11. Detecting in the whole reaction process with reaction curve, convenient for users to monitor thoroughly and scientifically analyze the detection data.
12. Supporting software can implement the function of detecting surplus reagent through liquid level induction of reagent probe.

Technical Parameters:

Overall Performance	Model	BIOBASE-EMERALD
	Type	Discrete, Fully automatic
	Throughput	800T/H
	Analysis Method	End-point, Fixed-time, Rate, etc.
	Programming Items	programmable for any test items
Sample unit	Certification	CE, FDA, ISO9001, ISO14001, ISO13485
	Sample Position	180 samples, double disk design, including 60 samples for calibration/quality dribbling refrigerated
	Sample Tubes	Original blood collection tube, micro tube, plastic tube, etc.
	Sample Types	Serum, plasma, urine, etc.
	Sample Volume	2ul ~70ul (0.1ul stepping)
Reagent unit	Sample Probe	Having liquid level induction function, ensuring the accuracy of adding sample
	Probe Cleaning	Automatic washing both interior and exterior, cross contamination rate < 0.1%
	Analysis Items	analyzing maximally 100 items at the same time
	Reagent Position	200 reagent positions, dual-tray design
	Wash Solution	Washing solution can be installed in any position, including needle, stir bar washing solution and water bath disinfectant
Reaction unit	Reagent Volume	20-350ul, 0.5ul increment
	Temperature Control	continuous 2~8°C cooling within 24 hours
	Reagent Probe	Having liquid level induction function, ensuring the accuracy of adding reagent. Inventory checking
	Probe cleaning	Automatic washing both interior and exterior
	Reaction Volume	150-550ul Reaction Temperature 37°C
Optical System	Temperature system	Water bath, Real-time temperature display
	Cuvettes	160 positions with permanent hard glass cuvettes (optical path length 5mm)
	Stirrer	Independent stir bar, nanotechnology, highly polished, automatic frequency conversion
	Cleaning	automatic water cleaning and drying system
	System Adjustment	System can record the blank value and get more accurate result by deducting blank base value of each cuvette
Calibration and QC	Light Source	Halogen lamp, lamp can be auto sleep and wake up
	Receiver	Holographic flat field concave grating diode array detection
	Wavelength Range	16 wavelengths from 340 to 800nm
	Linear Range	-0.3000~3.3000 Abs
	Stray light	< 0.1% or Abs > 3.0
Software	Calibration Method	Linear calibration; K factor, two- and multiple linear Nonlinear Calibration: spline, polynomial, Logarithm, etc.
	Quality Control	Auto QC, cooled QC positions
	Emergency Function	Emergency sample can be placed in the sample tray at any time
	Software	Windows XP (SP3) / Win 7
	Online	Full bi-directional communication possible
Others	Data Processing	Having reaction curve detection and data display function in the whole process
	Water consumption	Deionized water, < 45 L/hour
	Power Supply	110-240V, 50Hz, < 1.5KW
	Dimension	1508×865.5×1204mm
	Weight	400Kg

BIOBASE-Silver Semi-Biochemistry analyzer

Features:

1. Reasonable software, programmable biochemical test menu, 200 test programmes can be saved.
2. 10000 patients test data can be saved.
3. Clock CMOS chip inserted.
4. Hermetic solid-state optical system, low contamination of dust and dampness, long life time of hard membrane filters.
5. Back spectro photometry, eight hard membrane filter, separate signal process circuit for each wavelength, filters select completed electronically, no mechanical movement.
6. Titanium alloy flow cell with small capacity and mini cross-contamination.
7. Back-light LCD monitor and display character and curve simultaneously
8. Self-test program, test error<1%, CV<3%.



Technical Parameters:

Model	BIOBASE -Silver
Analysis Method	Kinetics, end point, two point, etc
Optical system	340-800nm, 8 hard membrane filter: 340, 380, 405, 492, 510, 546, 578, 630nm(wavelength). Accuracy±2nm
Abs range	-2.500—2.5Abs, resolution:0.001Abs
Light source	20w/12V halogen light, life time: 2000hr
Flow cell	Titanium quartz alloy, 33uL; optical path: 10mm
Temperature	PELTIER elements, 25,30,37 0.1±
Precision	Error<1%, drift<5mAbs/hr
Programmes	200 test programmes can be saved
Printer	58mm thermal printer, no noise, high speed, easy maintenance
Keyboard	24 keys touch keyboard
Interface	Standard RS232 serial interface
Working Environment	Temperature :0%-40%
Humidity	5-80%
Power supply	220V±15%, 50Hz, 70VA
Dimension	460(L)x380(W)x200(H)mm
Net weight	13Kg(net), 15Kg(gross)

BIOBASE -Silver Plus Semi-auto Biochemistry Analyzer

Features:

1. Stream line design, nice appearance
2. Self calibration and trouble alarm function
3. Absolutely open system: both of programming and reagent
4. Warning tone for finished sipping and any other ready function
5. Function sketches on main menu; the software is simplicity, easy and fast operation.
6. Real time curve monitoring enhances the reliability of result.
7. Memory for 100 programs and 20000 test results, results tracking by date.
8. On-board Quality control, control results available either memory or display.



Technical Parameters:

Model	BIOBASE -Silver Plus
Analysis Method	Kinetics, End point, Fixed time, etc
Light source	6v/10w Halogen Lamp, life Span>3000 hours
Standard filter	340, 405, 505, 546, 578, 620, 670nm and one free position.
Band width	≤8nm
Linearity range	0.000-3.000Abs
Aspiration volume	200-1400ul
Flow cell	32ul; Optical diameter: 1cm
Cross contamination rate	≤1%
Temperature	25°C, 30°C, 37°C, ±0.1°C and be controlled by peliter
Language	English or any language on request
Output	Built-in printer, RS232 for additional PC
Display	240*128LCD
Power supply	AC220V±10%, 50/60Hz
Dimension	430(L) mm×320(W) mm×220(H) mm
Net weight	9.0kg

BK-XFA series Hematology Analyzer

Automatic Hematology Analyzer mainly used to detect the parameters of the series of red blood cells and hemoglobin, platelet and leukocyte in the blood. It is a vitro diagnostic equipment which is applied to quantitative analysis of blood cells of clinical and laboratory.



The machine is mainly used for the quantitative measurement of the blood in the 19 parameters and 3 histograms.

1 The total amount of WBC	WBC
2 The amount of Lymphocyte	Ly#
3 The amount of Monocyte	MO#
4 The amount of Granulocyte	GR#
5 Lymphocyte percentage	Ly%
6 The percentage of mononuclear cells	MO%
7 Granulocyte percentage	GR%
8 The total amount of red blood cells	RBC
9 Hemoglobin	HGB
10 Hematocrit	HCT
11 Mean volume of red blood cells	MCV
12 Mean corpuscular hemoglobin	MCH
13 Mean corpuscular hemoglobin concentration	MCHC
14 Red blood cell volume distribution width Coefficient of variation	RDW-cv
15 The standard deviation of red blood cell volume distribution width	RDW-sd

16 The total amount of platelet	PLT
17 Mean platelet volume	MPV
18 Plateletcrit	PCT
19 Platelet distribution width	PDW
20 White blood cell distribution histogram	WBC Histogram
21 Red blood cell distribution histogram	RBC Histogram
22 Platelet distribution histogram	PLT Histogram

Product classification:

Instrument classification standard description:

According to Chinese medical device management:

It belongs to the blood analysis systems of the clinical tests and analysis equipment (6840), Management Category is class II.

Classified by electric shock protection: Transient over-voltage category II, the level of rated pollution is level 2.

Classified by working system: continuous operation equipment.

Technical Parameters:

Model	Structure and Function
XFA6000	10.4-inch 640 × 480-TFT color LCD display, panel-type thermal printer, mask button, built-in common sampling and diluting (store 20000 data)
XFA6100	8-inch 800 × 600-TFT color LCD display, panel-type thermal printer, mask button, built-in common sampling and diluting (storage 10,000 data)
XFA6100A	8-inch 640 × 480-TFT color LCD touch screen, panel-type thermal printer, built-in common sampling and diluting (store 20000 data)

BIOBASE Biochemistry Reagents

107 kinds of liquid reagents:

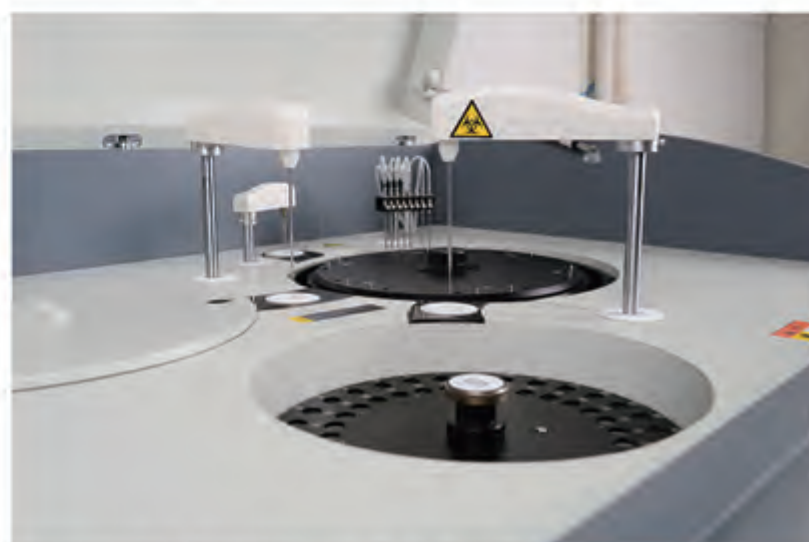
Including Blood Lipid Items, Liver Function Items, Myocardium Zymogram Items, Kidney Function Items, Glycometabolism Items, Pancreas Items, Pepsinogen Items, Blood Gas Electrolyte Items, Rheumatism Items, Hemagglutination Items and Special Protein Items.



Reagent Concentrate



Class 100 Clean Room



Used in BIOBASE or other brands Biochemistry analyzer



Biochemistry Reagent

High-Quality, Cost-Effective, Clinical Chemistry-Solutions.

1. Stable liquid
2. Reliable results
3. Test enzyme, substrate, special protein and ion
4. Having quality control and calibration to ensure accuracy
5. Applicable to various models of biochemistry analyzer
6. Suitable for Hitachi 7170/7600P, Olympus AU400/600/640/1000/2700, Beckman, Mindray instrument.
7. Customized packing acceptable

Water Purifier

Application:

Ultrafiltration system, microbiological media preparation, finechemical, chemical and biochemical Reagent, buff solution, photographic flushing, ion chromatography.

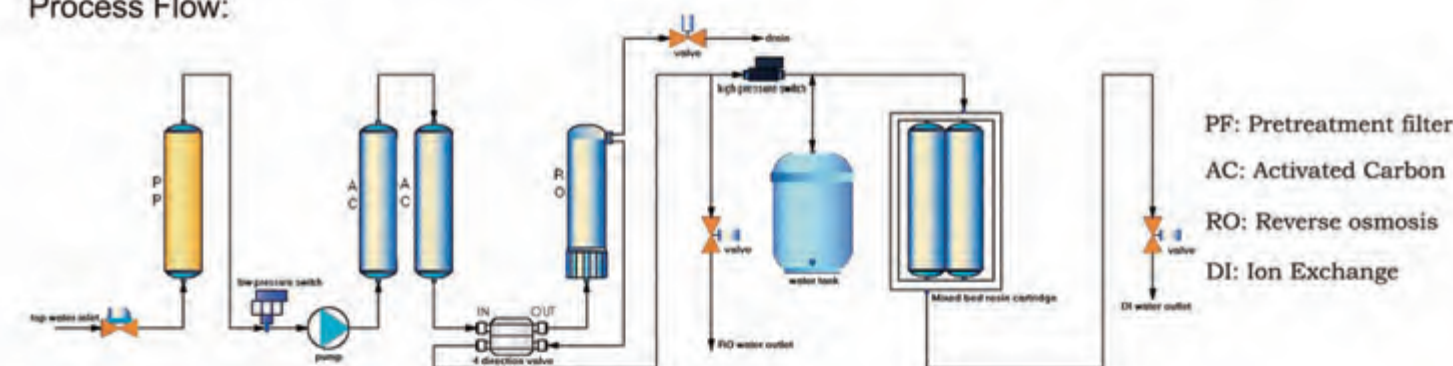
Features:

- Imported plastic frame.
- Open cover quickly.
- Easily replace pretreatment filter cartridge without case unpacking.
- Automatic pressure sensor.
- Automatic RO membrane flush.
- Automatically shut down without feed water.



SCSJ-I

Process Flow:



Technical Parameters:

Model	SCSJ-I	Process Flow	PF+AC+RO+DI
Water Supply	Tap water:TDS<200ppm,5-45℃,1.0~3.5Kg/cm2		
Purification System	Pretreatment	10" PP filter×1+10" Activated carbon ×2	
	RO reverse osmosis	100GPD RO membrance x1	
	Postposition purification	Deion purification column×2	
Purification Index	Soluble organic matter: Rejection rate>99% (molecular weight>100)		
	Particle: Rejection rate>99% Microbe: Rejection rate>99%		
	Salt rejection rate: near 100% Resistivity:7.0-10.0 MΩ-cm;		
	Conductivity:0.143-0.100 μs/cm; Microbe/Germ:<1 CFU/ml		
	PM (particulate matter) (>0.22μm):<1/ml;		
	TDS (total solids solubility):RO water:5-10 ppm;		
Output(25℃)	15L/H	Water Outlet(hand switch)	2:RO water;DI water
Water Quality Monitoring	TDS (total solids solubility)water quality testing pen		
External Size (H×W×D)	394×390×502mm	Weight	12-20kg