

INNOVATION · MANUFACTURE · INTEGRATION · SERVICE

AutoChem *B861* Automatic Chemistry Analyzer



Autobio Diagnostics Co., Ltd.

offers more than 600 in vitro diagnostic products including CLIA (microplate based CLIA and magnetic particle based CLIA), ELISA, POCT (Point of Care Test), Microbiology and Biochemistry. As an ISO9001 and EN ISO13485 manufacturer, Autobio supplies high quality products through its well established sales network and is renowned as a reliable partner. For details please visit en.autobio.com.cn. Autobio Diagnostics Co., Ltd. | NO.87 Jingbei Yi Rd | National Eco&Tech Zone | Zheng zhou City | China 450016.

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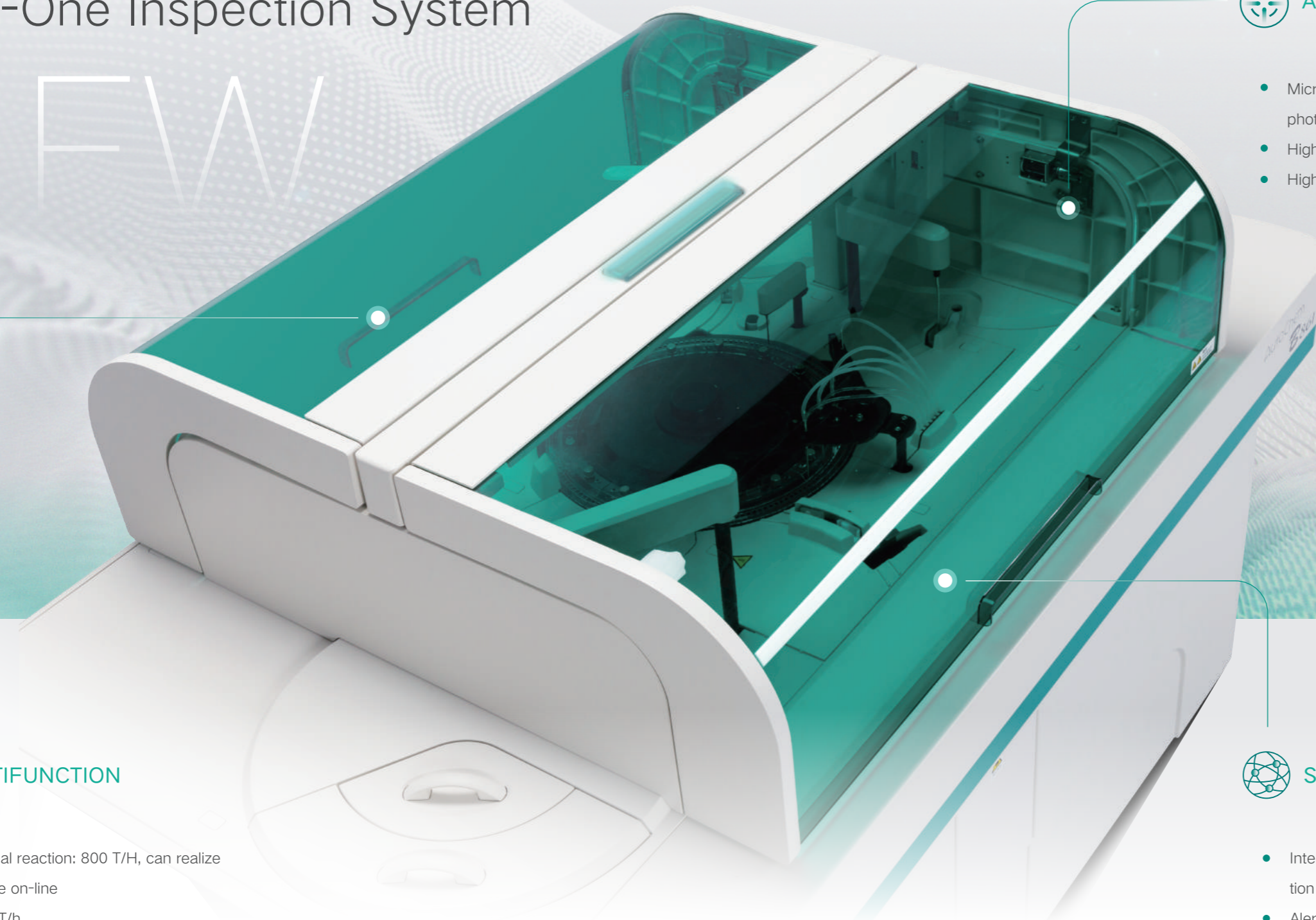
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AutoChem B861

New Fully Automatic All-In-One Inspection System

NEW



MULTIFUNCTION

- Biochemical reaction: 800 T/H, can realize the module on-line
- ISE : 600 T/h
- Whole blood HbA1c assay
- Specific Protein Immuno (Scatter) Assay

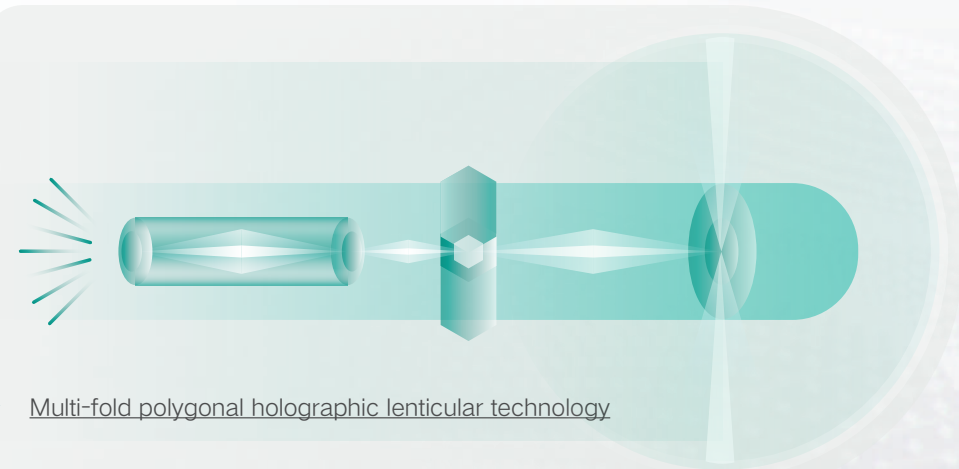
ACCURATE

- Micro-bubble interception technology in the photometric process, photometric repeatability < 1%
- High stability light source drive voltage, photometric stability <0.01
- Highly polished steel needles, liquid injection precision CV <2%.

SAPIENTIAL

- Intelligent reaction curve monitoring, HOOK effect, substrate depletion and other abnormal results monitoring
- Alerts for ultra-linear program results, automatic dilution and retesting
- Intelligent reagent online loading, scanning code to identify reagent information
- Intelligent anti-cross-contamination system, avoidance and enhanced cleaning double guarantee

01 Advanced Optical Inspection Systems



Multi-fold polygonal holographic lenticular technology

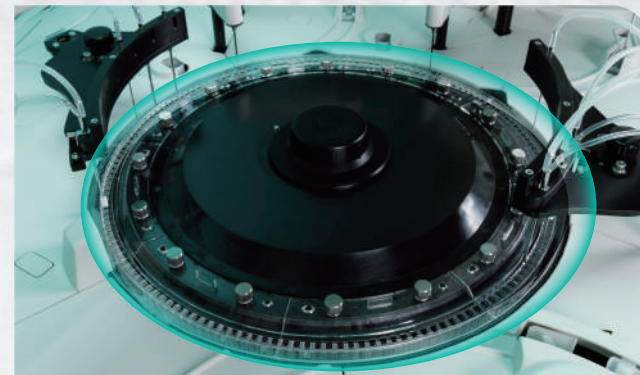
- Holographic concave grating post-splitting system, 16 wavelengths cluster-type focusing technology, light source lamp life up to 2000 h
- Absorbance linear range 0-3.3 Abs, reducing ambient light interference for more accurate results
- Scattered laser light source for more accurate results

02 Stable Temperature Control System



Refrigeration

Reagent compartment and sample tray with independent refrigeration function, conducive to the preservation of reagents and quality control, 2-8°C.



Reaction cup thermostat

Adopting classic circulating water bath thermostat mode, automatic water change and adding anticorrosive anti-foaming agent, the reaction cup warms up quickly and uniformly, with a constant temperature of $37 \pm 0.1^\circ\text{C}$.

Over Introduction Of The High Stability System

Fatigue test > 5 million tests, stable performance

03 Intelligent Software Systems



- The graphical software is easy and fast to operate, with complete functions, such as over-linearity limit, over-reference limit, substrate depletion, antigen excess, no reaction equilibrium, etc., which ensures the intelligence of the analysis process
- Serum information checking function, abnormal serum specimen indication
- With anti-cross-contamination procedures to avoid interference between reagents of different items, to ensure accurate analysis
- Instrument alarm information hierarchical processing, prioritize and treat with ease

04 Precision Spiking System



Sampling probe

Adopting high polish processing technology, effectively reducing cross contamination, with automatic liquid level detection, empty suction, plugging probe detection, three-dimensional anti-collision and other functions

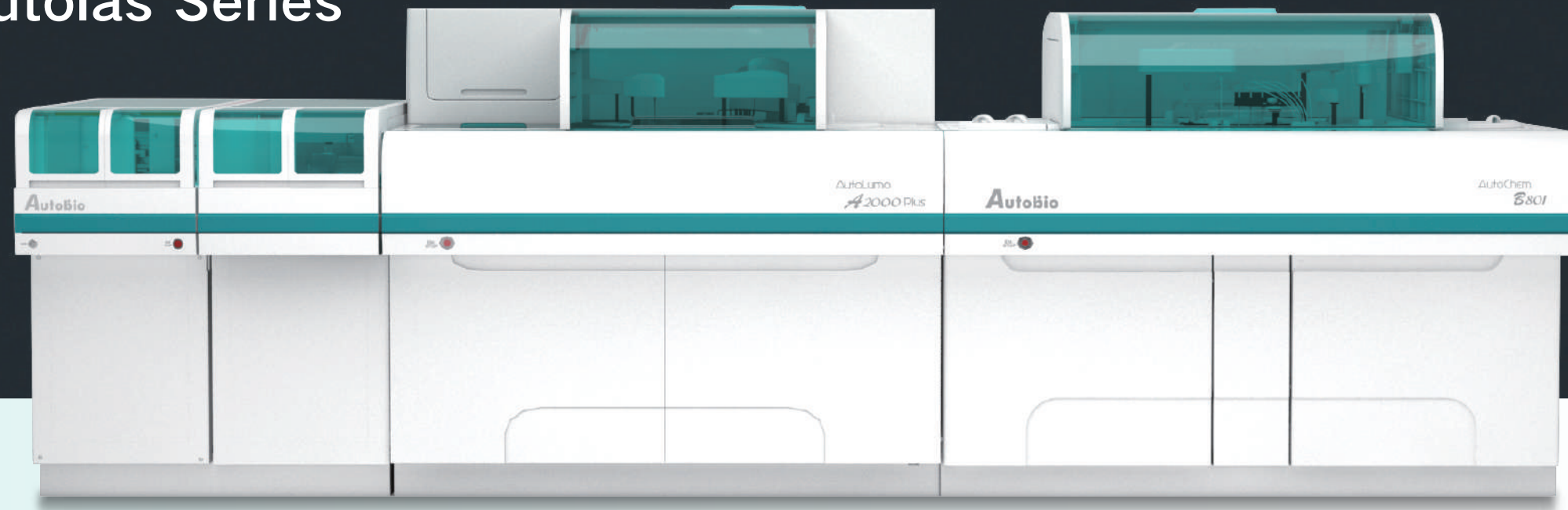


Dispensing pumps

Adopting high-precision ceramic piston dispenser pump, high precision of sample filling, long life, fast and precise liquid injection.

Biochemistry, Immunology All-In-One Machine Autolas Series

Autolas Series



- ▶ **Multi:** biochemical test items + immunoassay items, nearly 300 kinds of test items
- ▶ **Fast:** fully automated biochemical analysis 800T/H, fully automated immunoassay 200T/H, ISE 600T/H
- ▶ **Stable:** high reliability, on-line instruments can be operated independently
- ▶ **Accurate:** Accurate: low carry-over contamination rate, biochemical immunoassay in one tube of blood

Autobio Biochemistry Assay Panel

Liver 5'-Nucleotidase Cholyglycine② Adenosine Deaminase Fibronectin Glutamate Dehydrogenase Glycyl Prolyl Dipeptide Aminopeptidase Glutathione Reductase Leucine Aminopeptidase Monoamine Oxidase Mitochondrial AST Alkaline Phosphatase Bilirubin Direct Bilirubin Total Ceruloplasmin Cholinesterase Total Bile Acids Albumin Gamma-GT ALT (GPT) AST (GOT) Total Protein Prealbumin	Gastric 5'-NT CG ADA FN GLDH GPDA GR LAP mAST Renal Pepsinogen I Pepsinogen II H. pylori Microalbumin β-N-Acetylglucosaminidase Neutrophil Gelatinase-associated Lipocalin Retinol-Binding Protein Urine Transferrin Cystatin C Creatinine Urea Uric Acid CSF/Urine Protein α 1-Microglobulin α 2-Macroglobulin β 2-Microglobulin	Lipids Apo A1 Apo AII Apo B Apo CII Apo CIII Apo E HDL-C LDL-C Cholesterol Total Lipoprotein (a) Phospholipid Triglycerides Tumor Markers Alpha-Fetoprotein Alpha-L-Fucosidase Carcinoembryonic Antigen Prostate-Specific Antigen Sialic Acid	Cardiac Homocysteine Heart Fatty Acid Binding Protein Ischemia-Modified Albumin Lactate Dehydrogenase Lactate Dehydrogenase 1 Lipoprotein-associated phospholipase A2 Myeloperoxidase Superoxide Dismutase α-Hydroxybutyrate Dehydrogenase CK CK-MB® cTnl Myoglobin hs-CRP sd LDL-C Pancreatitis Amylase② Lipase Amylase Pancreatic	Rheumatism & Immune Anti-Streptolysin O Anti-Cyclic Citrullinated Peptide Rheumatoid Factor CRP IgA IgG IgM IgE C3 C4 Inflammation α 1-Acid Glycoprotein α 1-Antitrypsin Procalcitonin Serum Amyloid A Anemia Unsaturated Iron Binding Capacity G6PDH Haptoglobin Transferrin Ferritin	Coagulation Antithrombin III Fibrin/Fibrinogen Degradation Products Fibrinogen D-Dimer Electrolytes Sodium Potassium Ammonia Chloride Calcium® CO ₂ Copper Iron Lithium Magnesium Phosphorus Zinc Others Angiotensin Converting Enzyme 25-OH VD	ASO CCP RF ATIII FDP AAG AAT PCT SAA UIBC ACE ②Dual methods
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SPECIFICATIONS

General Performance ▶

Throughput: Constant 800 photometric tests/hour; 400 tests/hour for assays with 3 or 4 reagents; ISE: maximum 600 tests/hour

Principle: colorimetry, turbidimetry, ISE

Analysis methods: endpoint method, rate method, two-point method; ISE method (optional)

Scalability: integrated with chemiluminescent analyzer, capability to be connected into TLA

Reagent System ▶

Reagent probes: 2 reagent probes, for R1 (R4) and R2 (R3) respectively; automatic liquid level detection, vertical & horizontal collision protection, bubble detection

Reagent tray: R1 (R4) 80 positions, R2 (R3) 80 positions

Reagent volume: 15~350 μL in 0.5 μL steps

Reagent refrigeration: 2~8°C, 24-hour uninterrupted refrigeration

Reaction System ▶

Reaction cuvettes: 160 reusable cuvettes, 8-step auto-washing with vertical collision protection function for acid, alkaline, deionized water cleaning and wipe dry

Water quality: resistivity not less than 1MΩ/CM; inlet water pressure: 100~392KPa, inlet water flow not less than 50L/H

Reaction temperature: water bath, 37 ± 0.1°C

Working Conditions ▶

Dimension: L × W × H: 1570*952*1205mm;

Weight: ≤400Kg

Water quality: resistivity not less than 1MΩ/CM; inlet water pressure: 100~392KPa, inlet water flow not less than 50L/H

Power supply: 220 ± 22V, 50 ± 1Hz, 1500VA

Sample System ▶

Sample types: Whole blood, Serum, Plasma, Urine, Pleural effusion, and Cerebrospinal fluid

Sample probes: automatic liquid level detection, vertical & horizontal collision protection, clot detection, bubble detection, sample auto-dilution

Sample volume: 1.5~35 μL in 0.1 μL steps

Optical System ▶

Light source: Halogen-tungsten lamp, service life not less than 2000 hours

Photometer: Flat-field holographic concave grating

Wavelength: 16 wavelengths