TORONTECH

MICROFLUIDIC BIOCHEMISTRY ANALYZER – TORONMBA™

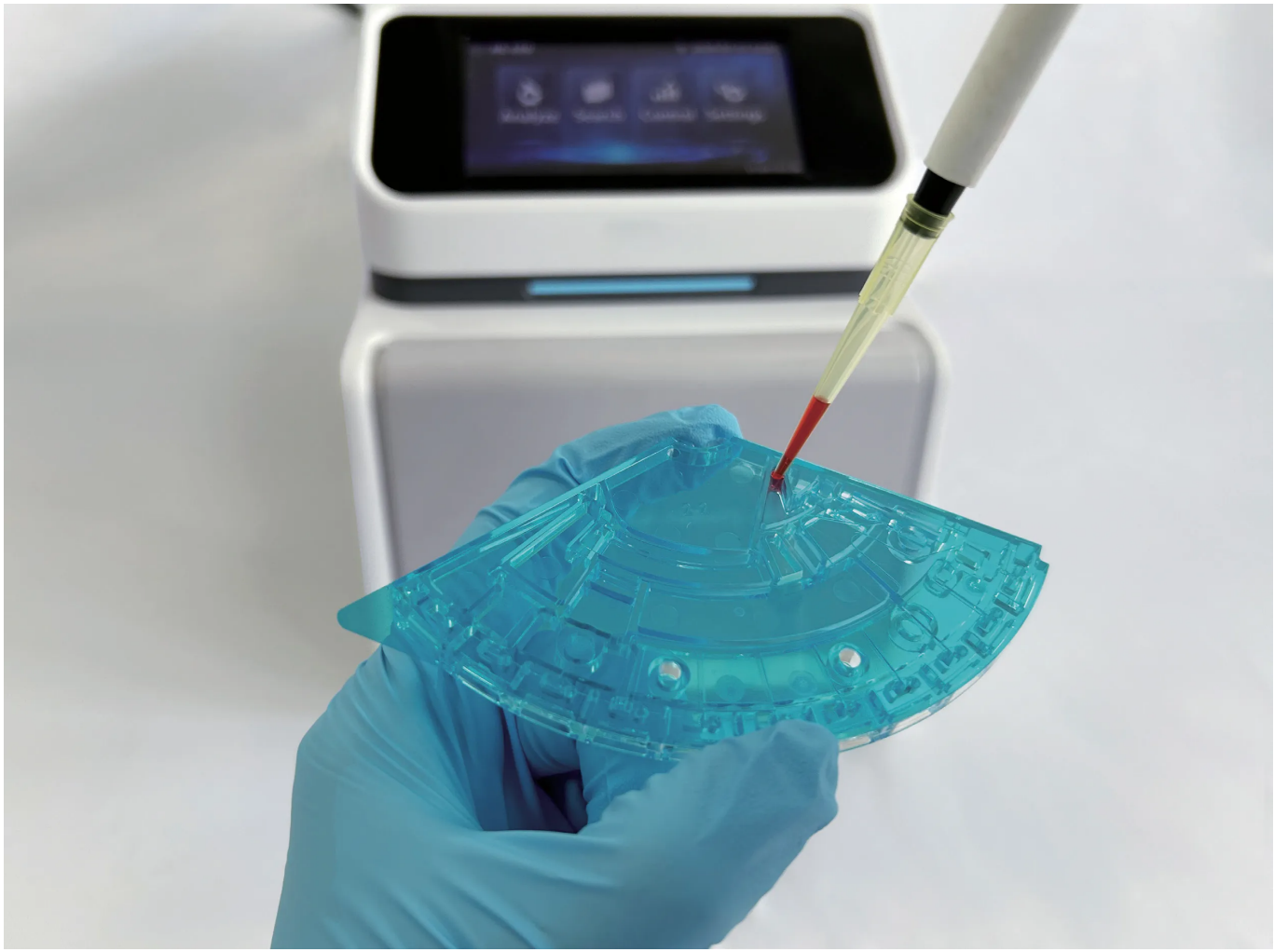
ToronMBA™ Microfluidic Biochemistry Analyzer is a cutting-edge multi-assay system designed to deliver fast, reliable results at the point of care.

This all-in-one analyzer supports testing for biochemicals, CRP, SAA, HbA1c, and urine microalbumin—streamlining diagnostics in a single compact platform.

Healthcare providers can access critical diagnostic data within minutes, helping them make timely, well-informed decisions during the same patient visit.

With a simple sample in, results out process, results are available in as little as 10 minutes. All reagent kits are stable for transport and storage between 2–25°C, ensuring easy distribution and accessibility across various settings.

APPLICATIONS



Operation Procedure

Microfluidic Biochemistry Analyzer – ToronMBA

Perfect Performance

Application

- **Hospitals & Emergency Departments** - Provides rapid biochemistry and inflammation marker results (e.g., CRP, SAA, glucose, liver and kidney panels) to support timely diagnosis and treatment decisions in acute care settings.
- **Primary Care & Community Clinics** - Enables physicians to perform essential biochemistry testing such as glucose, HbA1c, and lipid profiles on-site, improving patient management and reducing the need for external lab referrals.
- **Endocrinology & Diabetes Centers** - Supports routine monitoring of glucose, HbA1c, and albumin-to-creatinine ratio (ACR) for comprehensive diabetes management and early detection of complications.
- **Cardiology & Metabolic Clinics** - Delivers quick results for lipid panels (TG, TC, LDL, HDL) and glycated albumin, facilitating early detection and management of cardiovascular and metabolic disorders.
- **Nephrology & Kidney Care Centers** - Provides accurate kidney function analysis including creatinine, uric acid, urea, NGAL, and albumin, ensuring effective monitoring of renal health.
- **Gastroenterology & Hepatology Clinics** - Used for liver function testing (ALT, AST, GGT, ALP, bilirubin, albumin) to support diagnosis and follow-up of liver diseases and metabolic disorders.
- **Diagnostic & Clinical Laboratories** - Complements central lab operations by providing fast-turnaround results for urgent samples, optimizing workflow and patient throughput.

- **Mobile & Point-of-Care Health Services** - Compact and lightweight design makes it ideal for use in mobile clinics, rural healthcare programs, and field-based diagnostic services.

- **Universities & Research Institutions** - Serves as a reliable platform for teaching, clinical trials, and biomedical research requiring rapid and reproducible biochemical analysis.

- **Pharmaceutical & Biotech Companies** - Supports clinical trials and drug development studies by enabling multi-analyte monitoring in a compact, high-precision system.

FEATURES

1. **Simple and Efficient**
   All-in-One Disc: Sample In, Results Out
2. **Save Time**
   Turnaround time (TAT) under 14 minutes.
3. **Conserve Sample**
   Requires only 50 µL of whole blood or plasma.
4. **Broad Test Menu**
   Supports both biochemistry and latex immunoturbidimetry test kits.
5. **Accurate Results**
   Delivers precise results traceable to international standards.
6. **Adjustable Throughput**
   Process 1–3 biochemistry kits or 1–6 latex immunoturbidimetry kits per run.
7. **Compact Design**
   Measures just 320 mm (L) × 180 mm (W) × 226 mm (H) and weighs only 5.3 kg.

8. **Reliable Connectivity**
   Compatible with LIS and HIS systems.
9. **User-Friendly**
   No additional calibration needed and minimal maintenance required.

TECHNICAL SPECIFICATIONS

Test Menu

Usage	**Panel**	**Test Items**
Glucose and Lipids	Lipids and Glucose Combo (Microfluidic Dry Chemistry Method)	TG, TC, LDL, HDL and Glucose*
	Lipids, Glycated Albumin and Glucose Combo（Microfluidic Dry Chemistry Method）	TG, TC, LDL, HDL,Glucose and GA
Liver Function	Liver Function Combo 1 (Microfluidic Dry Chemistry Method)	ALT, AST, γ-GGT, ALP, AMY*
	Liver Function Combo 2 (Microfluidic Dry Chemistry Method)	TBIL, DBIL, TP, ALB
Kidney Function	Kidney Function Combo (Microfluidic Dry Chemistry Method)	Creatinine, Uric Acid, Urea and Albumin*
	Neutrophil gelatinase associated lipocalin (Microfluidic Immunoturbidimetric Method)	NGAL
	Albumin-to-creatinine ratio (Microfluidic Immunoturbidimetric Method)	Albumin, Creatinine, ACR*
Inflammation	C-reactive protein (Microfluidic Immunoturbidimetric Method)	CRP*
	C-reactive protein/serum amyloid A protein Combo (Microfluidic Immunoturbidimetric Method)	CRP and SAA*

Serum Amyloid A Protein (Microfluidic Immunoturbidimetric Method)	SAA*	
Average glucose in the past 3 months	Hemoglobin A1C (Microfluidic Immunoturbidimetric Method)	HbA1c*

* CE Marked

TORONTECH.com

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