



TORONTECH



MICROFLUIDIC IMMUNOASSAY ANALYZER - TORONMIA™

ToronMIA™ Microfluidic Immunoassay Analyzer combines advanced microfluidic technology with highly sensitive time-resolved fluorescence immunoassay to deliver lab-grade results at the point of care.

This compact, user-friendly desktop analyzer delivers accurate diagnostic results ($CV \leq 6\%$) in under 12 minutes, helping healthcare professionals make timely and cost-effective treatment decisions.

The platform is built for scalability, with the potential to become one of the most versatile testing systems in the point-of-care market.

APPLICATIONS

Microfluidic Immunoassay Analyzer - ToronMIA

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Operation Procedure

Microfluidic Immunoassay Analyzer - ToronMIA

Perfect Performance

Microfluidic Immunoassay Analyzer - ToronMIA

Application

- **Hospitals & Emergency Departments** - Provides rapid diagnostic results for critical biomarkers such as cardiac troponins, NT-proBNP, and D-dimer to support timely decision-making in emergency and acute care settings.
- **Point-of-Care Testing (POCT) Facilities** - Offers lab-grade accuracy in decentralized locations, enabling physicians and clinicians to perform fast and reliable tests without the need for central laboratory support.
- **Cardiology & Cardiovascular Clinics** - Used for routine monitoring and rapid assessment of cardiac markers including hs-cTnT, CK-MB, and BNP/NT-proBNP for early detection and management of heart failure, myocardial infarction, and related conditions.
- **Intensive Care Units (ICUs) & Critical Care** - Delivers fast results for inflammation and infection markers such as IL-6 and PCT, supporting immediate intervention in sepsis and systemic inflammatory response cases.
- **Diagnostic Laboratories** - Complements central lab operations by providing quick-turnaround testing for urgent samples, reducing workload and improving workflow efficiency.
- **Primary Care & Community Health Centers** - Enables general practitioners to conduct on-site biomarker testing for cardiovascular and inflammatory conditions, improving patient care and reducing hospital referrals.

- **Ambulatory & Mobile Healthcare Services** - Compact and lightweight design makes it suitable for use in mobile clinics, field hospitals, and remote healthcare settings requiring reliable diagnostics.
- **Research Institutions & Clinical Trials** - Facilitates biomarker monitoring in studies related to cardiovascular health, inflammation, and sepsis with precise, repeatable quantitation in a portable format.
- **Pharmaceutical & Biotech Companies** - Supports drug development and monitoring by providing rapid, accurate biomarker testing for clinical research and therapeutic evaluations.

FEATURES

1. **Simple**

All in One Disc, Sample in, Result out

2. **Save Time**

Turnaround time (TAT) under 12 minutes

3. **Save Sample**

Requires only 50 µL of whole blood or plasma

4. **Precise Quantitation**

Built-in centrifuge ensures accurate plasma separation, reducing errors from varying hematocrit (HCT) levels

5. **High Sensitivity**

Performance on par with chemiluminescence methods

6. **Adjustable Throughput**

Run 1 to 6 time-resolved fluorescence immunoassays in a single cycle

7. **Easy to Use**

No external calibration needed, minimal maintenance

8. **Compact Design**

1. Dimensions: 285 mm (L) × 235 mm (W) × 155 mm (H)
2. Weight: Only 3.2 kg

9. **Reliable Connectivity**

Compatible with LIS and HIS systems

TECHNICAL SPECIFICATIONS

Test Menu

Usage	Panel	Test Items
Inflammation	Procalcitonin (PCT) (Microfluidic time resolved fluoroimmunoassay)	PCT*
	Interleukin 6 (IL-6) (Microfluidic time resolved fluoroimmunoassay)	IL-6*
Cardiovascular	hs-Cardiac Troponin T (hs-cTnT) (Microfluidic time resolved fluoroimmunoassay)	hs-cTnT*
	Cardiac Troponin T (cTnT) (Microfluidic time resolved fluoroimmunoassay)	Troponin T*
	Myoglobin (Myo) (Microfluidic time resolved fluoroimmunoassay)	Myo*
	Creatine Kinase MB (CK-MB) (Microfluidic time resolved fluoroimmunoassay)	CK-MB*
	N-terminal pro b-type natriuretic peptide (NT-proBNP) (Microfluidic time resolved fluoroimmunoassay)	NT-proBNP*
	B-type Natriuretic Peptide (BNP) (Microfluidic time resolved fluoroimmunoassay)	BNP*
	D-Dimer (Microfluidic time resolved fluoroimmunoassay)	D-Dimer*

*CE Marked



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