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J. Mitra & Co. Pvt. Ltd.

.....a vision to serve mankind™

Since 1969





CLIA-181

AUTOMATIC CHEMILUMINESCENCE IMMUNOASSAY ANALYZER

• AFFORDABLE • COMPACT • ROBUST

91	120	10	30	200
Test Parameters	Throughput per hour	Reagent Positions	Sample Positions	Assay Cup capacity

Unleash the power of Cutting-edge Technology for Unparalleled Diagnostic Accuracy.

Features:



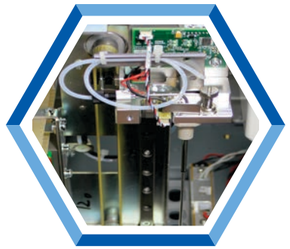
Sample/ Reagent Disk

- Innovative space-saving design to handle samples & reagents in one unit
- Automatic support for dilution function
- 30 sample positions
- 10 reagent positions, can be loaded or replaced any time
- Reagent balance & expiration reminder
- Reagents 24 hour refrigerated in 2~8ºC

Reaction Disk

- 3-Phase Magnetic Separation Washing
- Intelligent magnetic field design ensure good separation
- 52 incubation positions on board at constant temperature 37±0.1ºC
- Incubation, washing and light measurement in one unit to ensure reaction consistency



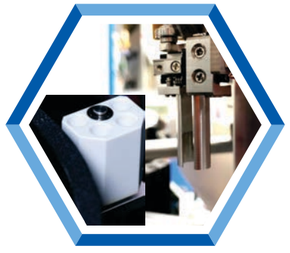


S/R probe

- Single steel probe for Sample & Reagent addition
- Accurate sample additon: 5 - 150μl
- Probe interior and exterior washing design, Carryover ≤5ppm
- Anti-collision, clot, air bubble and liquid level detection
- Low maintenance, high reliability

Gripper & Vortex Mixer

- Collision and cup error detection and alarm
- Vortex mixer
- Maximum reaction volume: 400μL
- Non-touch vortexer mixing for reaction solution without any contamination





Light Measurement

- Solid Phase Carrier: Magnetic particles
- The newest optical system design to increase efficiency by 40%
- Consistent performance reliability with enhanced PMT detection system

Consumables

- Substrate: Trigger & Pre-trigger Solution
- Reagent Kits
- Assay Cup
- Wash Buffer
- Enhanced Wash Buffer (probe cleaner)



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Technical Specifications

Sample Type	Human Serum, Plasma, Whole Blood, Urine samples		
Throughput	120 tests/hour (max.)		
First Result	≤ 15 minutes		
Assay Cup	Disposable		
Sample Position	30 Nos.		
Reagent position	10 Nos.		
Reagent Refrigeration	24-hrs. refrigeration with a temperature of 2-8°C at reagent disk		
Sample adding accuracy and repeatability	Sample volume (v/μL)	Requirement	
		Bias	Coefficient of Variation (CV%)
	5	≤ ±5%	≤ 2%
	150	≤ ±3%	≤ 1%
Linear Correlation	Linear correlation coefficient (r) ≥ 0.99, within a concentration range of not less than 3 orders of magnitude		
Carryover Rate	≤ 5×10^{-6}		
Intra-batch precision of clinical test	≤ 8% (CV, %)		
Dimensions	L-1.410 ft (430 mm) x W-2.230 ft. (680mm) x H-2.034 ft. (620mm)		
Product Weight	Net weight: 62kg		
Normal Working Conditions	Power Voltage: 100-240V~, 50/60 Hz		
	Input power: 850 VA		
	Fuse: F6.3 L250 V		
	Ambient temperature: 10°C~30°C		
	Relative humidity: ≤85%, no condensation		
Storage Conditions	Temperature: -20°C~55°C; Humidity: ≤ 93%		
Hardware Configuration	Processor: RAM 2GB, main frequency 4x1 GHz or above		
	Memory: 8GB or above		
	Software environment: Operating system of Linux 4.1 and above		
Security Interface	USB 2.0 and Ethernet RJ45 interface		

Test Parameters

DENGUE
- Dengue NS1 Ag iClia
- Dengue IgM iClia
- Dengue IgG iClia

VECTOR BORNE
- Malaria Ag iClia
- Lepto IgM iClia
- Chikungunya IgM iClia
- Scrub Typhus IgM iClia

TYPHOID
- Typhi IgM iClia

INFECTIOUS MARKERS
- HIV Ag & Ab iClia
- HCV iClia
- HBsAg iClia
- Syphilis iClia

AUTOIMMUNE
- APL iClia
- ACL iClia
- ANA iClia
- Anti-ds DNA iClia
- Anti-CCP iClia
- GAD-65 iClia
- Celiac (anti-tTG) iClia
- SCL 70 iClia

THYROID
- TSH iClia
- FT4 iClia
- FT3 iClia
- T3 iClia
- T4 iClia
- Tg iClia
- Anti-TPO iClia
- Anti-Tg iClia

HORMONES
- Testosterone iClia
- FSH iClia
- LH iClia
- E2 iClia
- Prolactin iClia
- βHCG iClia
- Cortisol iClia
- Progesterone iClia

REPRODUCTIVE HORMONES
- AMH iClia
- Inhibin-B iClia
- PAPP-A iClia
- uE3 iClia
- free-β-HCG iClia

INFLAMMATION MONITORING
- PCT iClia
- SAA iClia
- CRP iClia
- IL-6 iClia
- HBP iClia

ALLERGEN
- Anti-IgE iClia

CARDIAC MARKER
- hs-cTnI iClia
- hs-cTnT iClia
- CK-MB iClia
- Myoglobin iClia
- ST2 iClia
- LA-PLA2 iClia
- D-Dimer iClia
- H-FABP iClia
- S100-β iClia
- BNP iClia
- NT-proBNP iClia

TORCH RANGE
- Toxo IgM iClia
- CMV IgM iClia
- Rubella IgM iClia
- Herpes IgM -I/II iClia
- Toxo IgG iClia
- CMV IgG iClia
- Rubella IgG iClia
- Herpes IgG-I/II iClia
- Herpes IgG-II iClia

TUMOR RANGE
- AFP iClia
- CEA iClia
- CA125 iClia
- CA153 iClia
- CA19-9 iClia
- t-PSA iClia
- f-PSA iClia
- NSE iClia
- CYFRA21-1 iClia
- HE4 iClia
- PG-I iClia
- PG-II iClia
- SCCA iClia
- β2-MG iClia
- ProGRP iClia
- CA72-4 iClia

ANEMIA
- Vitamin B12 iClia
- Folate iClia
- Ferritin iClia

GLYCOMETABOLISM
- C-Peptide iClia
- Insulin iClia

BONE METABOLISM
- Vitamin D iClia
- PTH iClia
- hGH iClia

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