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J. Mitra & Co. Pvt. Ltd.

.....a vision to serve mankind™

CLIA-181

AUTOMATIC CHEMILUMINESCENCE IMMUNOASSAY ANALYZER



90

Test
Parameters

120

Throughput
per hour

10

Reagent
Positions

30

Sample
Positions

250

Assay Cup
Capacity

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

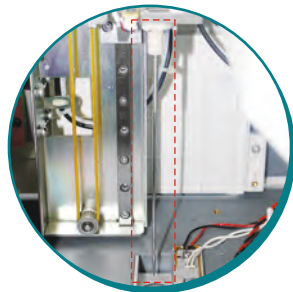
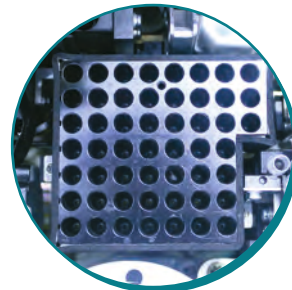


Sample/ Reagent Disk

- 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 2~8°C

Reaction Disk

- 3-Phase Magnetic Separation Washing
- Intelligent magnetic field design ensure good separation
- 52 incubation positions on board at constant temperature $37 \pm 0.1^\circ\text{C}$
- 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 - 150 μl
- Probe interior and exterior washing design, Carryover $\leq 5\text{ppm}$
- Anti-collision, clot, air bubble and liquid level detection
- Low maintenance, high reliability

Gripper

- Collision and cup error detection and alarm



Vortex Mixer

- Vortex mixer
- Maximum reaction volume: 400 μL
- 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



Technical Specifications

Degree of Automation	Fully Automatic		
Principle	AE based CLIA		
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 Mixing	Non-touch rotary mixing for magnetic particles		
Reagent Volume	10 - 200 μl		
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	
	5	Bias $\leq \pm 5\%$	Coefficient of Variation (CV%) $\leq 2\%$
	150	$\leq \pm 3\%$	$\leq 1\%$
Linear Correlation	Linear correlation coefficient (r) ≥ 0.99 , within a concentration range of not less than 3 orders of magnitude		
Carryover Rate	$\leq 5 \times 10^{-6}$		
Intra-batch precision of clinical test	$\leq 8\%$ (CV, %)		
Dimensions	L-2.230 ft. (680mm) x W-1.410 ft (430 mm) 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		
Storage Conditions	Relative humidity: $\leq 85\%$, no condensation		
	Temperature: -20°C~55°C; Humidity: $\leq 93\%$		
Hardware Configuration	Processor: RAM 2GB, main frequency 4x1 GHz or above		
	Memory: 8GB or above		
Security Interface	Software environment: Operating system of Linux 4.1 and above		
	USB 2.0 and Ethernet RJ45 interface		

Test Parameters

DENGUE

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

VECTOR BORNE

- 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 (Estradiol) iClia
- Prolactin iClia
- β -HCG 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-Troponin-I iClia
- hs-cTnT iClia
- CK-MB iClia
- Myoglobin iClia
- ST2 iClia
- LP-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
- CA-125 iClia
- CA15-3 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
- β 2-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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For further enquiries, Please contact:

J. Mitra & Co. Pvt. Ltd.

A 180-181, Okhla Indl. Area, Phase-1, New Delhi - 110 020, INDIA

Tel: +91-11-47130300, 47130500

E-mail: jmitra@jmitra.co.in

Website: www.jmitra.co.in