

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.



Scan QR Code to
visit our Website



J. Mitra & Co. Pvt. Ltd.

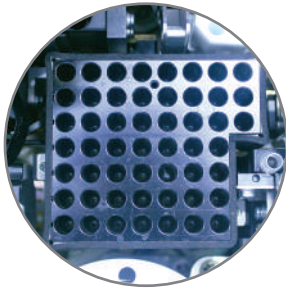
.....a vision to serve mankind™

ANALYZER HIGHLIGHTS



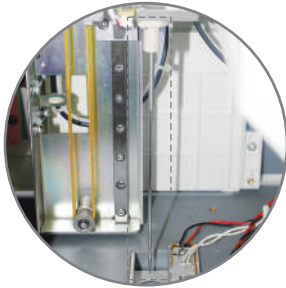
SAMPLE/ REAGENT DISK

- 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



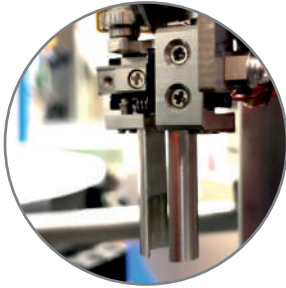
REACTION DISK

- 3-Phase Magnetic Separation Washing
- Intelligent magnetic field design ensure good separation
- 52 incubation positions on board at constant temperature 37±0.1°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 - 150µl
- Probe interior and exterior washing design, Carryover ≤5ppm
- Anti-collision, clot, air bubble and liquid level detection
- Low maintenance, high reliability



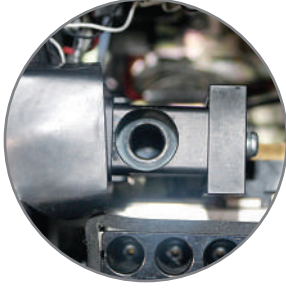
GRIPPER

- Collision and cup error detection and alarm



VORTEX MIXER

- Vortex mixer
- Maximum reaction volume: 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

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

* Coming soon.

HORMONES

- Testosterone iClia
- FSH iClia
- LH iClia
- E2 (Estradiol) iClia
- Prolactin iClia
- β-HCG iClia
- Cortisol iClia
- Progesterone iClia

REPRODUCTIVE HORMONES

- AMH iClia
- Inhibin-A iClia*
- PAPP-A iClia*
- uE3 iClia*
- free-β-HCG iClia*

INFLAMMATION MONITORING

- PCT iClia
- SAA iClia*
- CRP iClia*
- IL-6 iClia
- HBP iClia*

INFLAMMATION MONITORING

- Anti-IgE iClia

CARDIAC MARKER

- hs-Troponin-I 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
- 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*
- 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

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 - 200μl		
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-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: ≤85%, no condensation		
	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		

Also Connect with us on:



ISO 13485:2016
ICMED 13485



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