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J. Mitra & Co. Pvt. Ltd.

.....a vision to serve mankind™

CLIA-2000

AUTOMATIC CHEMILUMINESCENCE IMMUNOASSAY ANALYZER



90

Test
Parameters

200

Throughput
per hour

25

Reagent
Positions

60

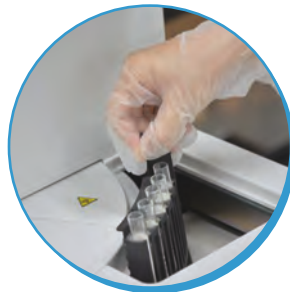
Sample
Positions

500

Assay Cup
capacity

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

Sample Loading



Total of 60 sample positions.
STAT channel available for
emergency samples at any time

Reagent Loading



It adopts one-piece disc
structure with a total of
25 reagent positions.
24 hour uninterrupted
refrigeration & holding.

Washing



Intelligent magnetic field design
to ensure good separation &
improves washing efficiency.

Gripper



The assay cup gripper is composed
of a set of manipulators in 3D motion,
which can transfer the assay cups to
the set work station accurately.

SR Probe



Single Steel probe for both sample
& reagent to reduce maintenance
costs. Interior and exterior washing
design ensuring carryover <10ppm
without clot, air bubble and liquid
level detection.

Mixer



High speed non-touch vortex
mixing to avoid contamination.

Reaction



A 120-well incubation module
providing a consistent
reaction environment.

Software Design



15-inch color LED touch screen,
no mouse or keyboard required.

Real-time consumables
management to add or replace
consumables at any time.

Optimized alarm classification to
maximize the completion of
existing tests

Technical Specifications

Degree of Automation	Fully Automatic		
Principle	AE based CLIA		
Sample Type	Human Serum, Plasma, Whole Blood, Urine samples		
Throughput	200 tests/hour (max.)		
First Result	≤ 10 minutes		
Assay Cup	Disposable (Loading capacity: 500 cups)		
Sample Position	60 Nos.		
Reagent position	25 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%)
	10	≤ ±5%	≤ 2%
	200	≤ ±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-1000 mm x W-670mm x H-640mm		
Product Weight	Net weight: 129 kg		
Normal Working Conditions	Power Voltage: 100-240V~, 50/60 Hz		
	Input power: 1000 VA		
	Fuse: F6.3 L250 V		
	Ambient temperature: 10°C~30°C		
	Relative humidity: ≤85%, no condensation		
Storage Conditions	Atmospheric pressure: 61.60kPa - 106.0kPa		
	Altitude: ≤4000m		
	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		
	Protocol: USB 2.0 interface is used to upgrade the program. Ethernet RJ45 is used to send to the LIS system through the network.		
	The test results are stored in the AssayDB.db file		

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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