

Sys Aurora

AUtomatic | **RO**bust | **RA**tified

Fully Automated Chemiluminescence (CLIA) Analyzer



- Fully Automatic
- Robust hardware
- Unwavering quality and precision

Enhancing lab precision with advanced CLIA analyzer

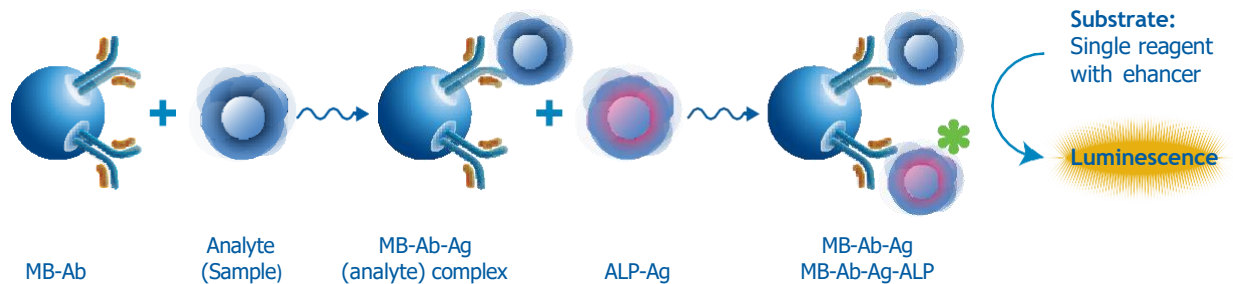
DiaSys

India

SYS Aurora represent a cutting-edge CLIA technology in the field of In-vitro diagnostic industry. It leverages the principle of chemiluminescence; a chemical reaction that emits light to detect and measure the concentration of analytes in a variety of biological samples. It offers several advantages over traditional assay methods, including enhanced sensitivity, specificity and efficiency.

Working Principle

Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labelled reagents and AMPPD substrate



Features



One key start



Intelligent consumable management with live status



Wiper washing technology



Continuous reagent loading



4-phase magnetic separation assembly with real-time mixing of magnetic particles



Single Cuvette Feature



Substrate continuous loading & bottom piercing



User maintenance free, easy to access Intuitive Software

Comprehensive test menu - Immunoassay

Thyroid	Infectious Marker	Liver Fibrosis	Tumor Marker
FT3	HIV Combo*	Hyaluronic Acid	CEA
FT4	HBsAg*	PIIINP N-P*	AFP
T3	Anti-HBs*	Collagen Type IV*	CA125
T4	HBeAg*	Human Laminin*	CA15-3
TSH	Anti-HBe*		CA19-9
Anti-TG	Anti-HBc*	Cardiac	Free PSA
Anti-TPO	Anti-HCV*	CK-MB	Total PSA
Tg	Anti-TP (Syphilis)*	Myoglobin	NSE
rT3		Troponin I	CYFRA 21-1
TRAb*	ToRCH	BNP	CA72-4
	Toxo IgG	Renin*	PG I
Fertility	Toxo IgM	Aldosterone*	PG II
Total β-HCG	Rubella IgG	Diabetes	SCCA
FSH	Rubella IgM	C-peptide	HE4
LH	CMV IgG	Insulin	ProGRP
Prolactin	CMV IgM	Bone Metabolic	CA50
E2	HSV-1/2 IgG	25-OH Vitamin D	CA242
E3	HSV-1/2 IgM	Intact PTH	PIVKA-II*
TESTOSTERONE	HSV-1 IgG	Calcitonin	AFP-L3%*
PROGESTERONE	HSV-2 IgG	Anemia	Hp IgG*
ACTH	Toxo IgG Avidity*	Vitamin B12	G-17*
DHEA-S	CMV IgG Avidity*	Ferritin	Inflammation
AMH		Folate (FA)	PCT
			IL-6

*Launching soon



Sys Aurora

Technical Specifications	
Measurement Principle	Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labeled reagents and AMPPD substrate
Throughput	Up to 180 tests/hour
Sample Capacity	50 Sample positions with Continuous loading and o/Eoading
Sample/Reagent Probe	Steel probe, liquid level detection, clot detection feature, Horizontal and vertical collision protection
Sample Volume requirement	10~200ul, with increment of 1ul
Sample dilution	Automatic with 1:2~1:40
Reagent positions	Reagent Disk with 15 positions & continuous loading feature
Reagent Pack Size	50 * 2 tests/pack, 100 *2 tests/pack
Magnetic Separation Assembly	4-phase magnetic separation with Real-time mixing for magnetic particles
Reagent Volume Requirement	20~200ul, with increment of 1ul
Reagent Scanning	Built-in/External bar code reader
Temperature Maintenance	Cooling System 2~8 °C, Constant Substrate heating
Temperature Accuracy	37±0.3 °C
Substrate Bottle	300/500 tests per bottle and bottom piercing feature
Substrate Loading	Capable of continuous loading during testing
Substrate Aspiration Volume	200ul
Signal Detector	Photomultiplier (PMT) photo counter; Calibration by LED reference module
Incubation positions	82
Mixing Unit	Non-touch vortex mixing
Cuvette Loading	Disposable plastic cuvette, 88 cuvettes per tray, 2 trays can be loaded in one batch with continuous loading and o/Eoading
Waste container	200 cuvettes per box
Dimension & Weight	860mm*740mm*560mm (W*D*H) & 145Kg
Relative Humidity	35%RH~85%RH, without condensation
Power Supply	110V/115V~, 60Hz; 220V-240V~, 50Hz; 220V/230V~, 60Hz
Input Power	1000VA
Operating Temperature	15~30 °C
Altitude Height	400m~3000m