

Bring the DIALITE™ CLIA Analyzer into your lab

- Walk-away automation
- 120 tests/hour
- ≤10 min first result
- Broad test menu
- LIS & Ethernet ready
- 8-year product lifetime

Explore the currently available tests:

Panel	Assay / Reagent	Pack Size
Thyroid	Anti-Tg	100 Tests
	Anti-TPO	100 Tests
	fT3	100 Tests
	fT4	100 Tests
	T3	100 Tests
	T4	100 Tests
	TSH	100 Tests
Fertility	AMH	100 Tests
	DHEA-S	100 Tests
	Estradiol (E2)	100 Tests
	Free Beta hCG	100 Tests
	FSH	100 Tests
	hCG	100 Tests
	LH	100 Tests
	Progesterone	100 Tests
	Prolactin	100 Tests
	Testosterone	100 Tests
Endocrinology	SHBG	100 Tests
	17-OH Progesterone	100 Tests
	Cortisol	100 Tests
	C-Peptide	100 Tests
	Free Testosterone	100 Tests
	hGH	100 Tests
	Insulin	100 Tests
Anemia	Vitamin D	100 Tests
	Ferritin	100 Tests
	Folate	100 Tests
Oncology	Vitamin B12	100 Tests
	PSA Total	100 Tests



Scan to explore Krishgen
Pudgala's IVD diagnostics range

DIALITE™ CLIA
ANALYZER

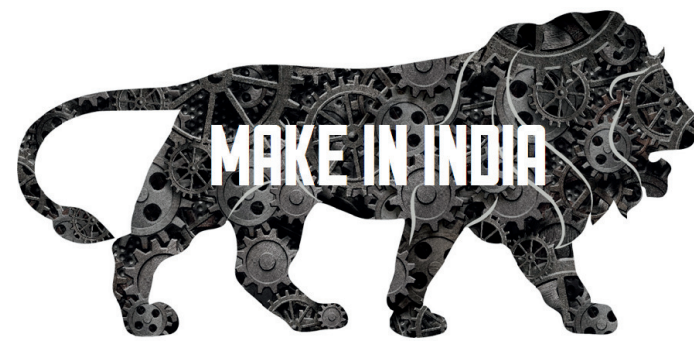
Fully Automated
Chemiluminescence Immunoassay
Analyzer



Technology powered by CALBIOTECH

Adopts a chemiluminescence method based on horseradish peroxidase, working with supporting reagents for the qualitative or quantitative testing of analytes in human serum, plasma, whole blood and urine samples. Uses paramagnetic particles as the reaction carrier and measures the direct chemiluminescence reaction of acridinium under pre-trigger and trigger solutions.

- 120-300
TESTS / HOUR
upto 300 throughput
- ≤10
MINUTES TO FIRST
RESULT
- 30
SAMPLE
POSITIONS
- 10
REAGENT
POSITIONS
- 8
YEAR PRODUCT
LIFETIME



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KEY FEATURES

Fully Automated Operation
Automated sample and reagent processing, cup transfer, dispensing, mixing and reaction for a complete walk-away workflow.

High Throughput
Up to 120-300 tests per hour, with the first result available in <10 minutes

Broad Test Menu
Vitamins, hormones, cardiac, infectious disease, tumor, autoimmune, kidney/liver and immune function panels.

Multiple Assay Formats
Sandwich, competitive and indirect immunoassay methods supported on the same platform.

Onboard Reagent Refrigeration
24-hour refrigeration at 2–8°C on the reagent disk to protect reagent integrity.

Touchscreen Interface
Intuitive touch screen software with Home, Sample, QC, Calibration, Reagent and Maintenance controls.

Disposable Assay Cups
Single-use reaction cups eliminate cross-contamination and carry-over between samples.

LIS Connectivity
USB2.0 and Ethernet RJ45 interfaces for software upgrade and LIS data transfer.

HOW IT WORKS — IMMUNOASSAY METHODS

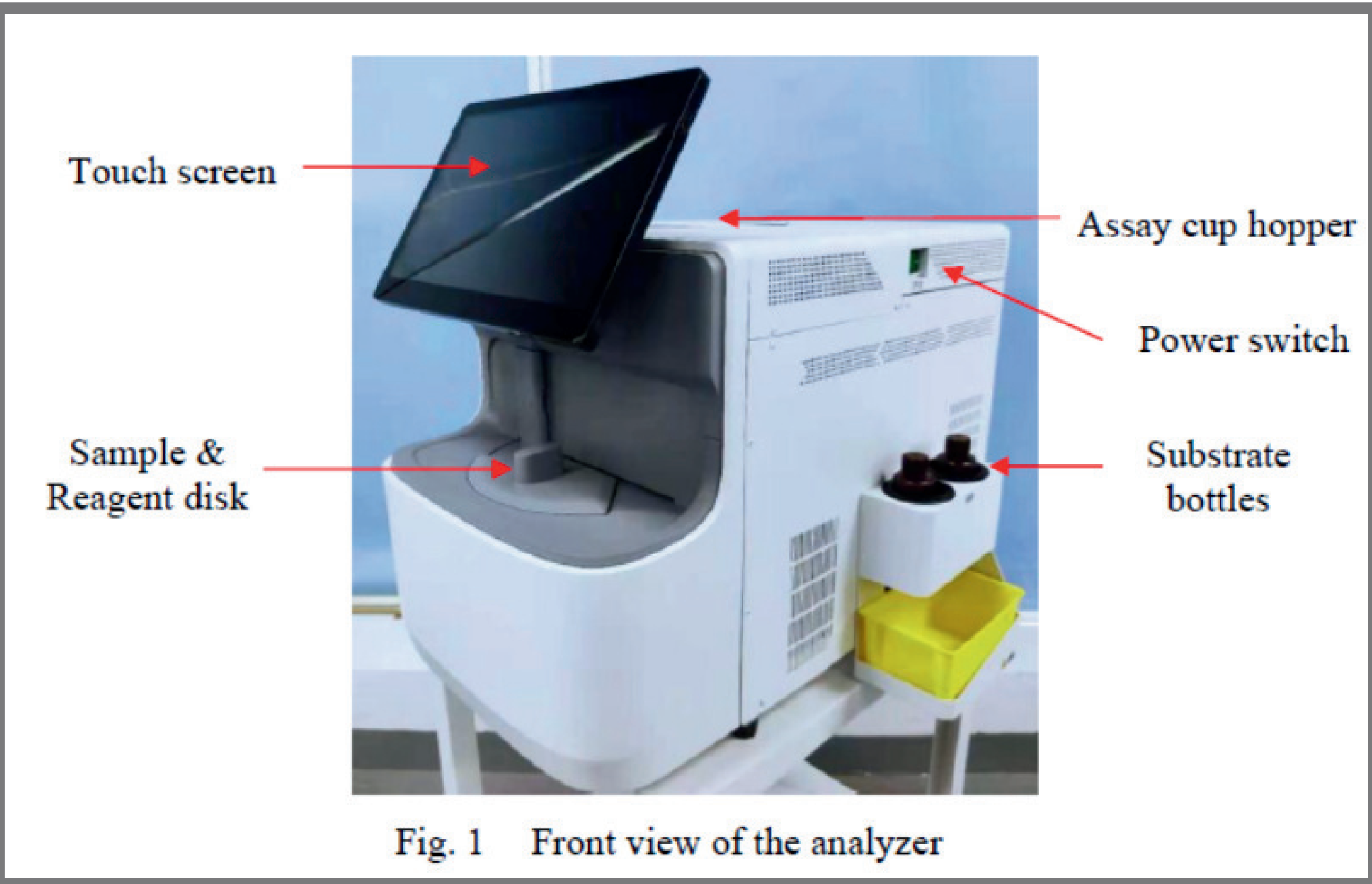
Sandwich
Capture antibody/antigen on magnetic beads binds the target, followed by a luminescent-labeled detection antibody, forming a Beads-Antibody-Antigen-Antibody-Luminescent complex.

Competitive
Test antigen competes with a luminescent-labeled antigen (or antibody) for binding sites on the solid-phase carrier; signal is inversely related to analyte concentration.

Indirect
Capture antigen on magnetic beads binds the test antibody, followed by a luminescent-labeled antibody, forming a Beads-Antigen-Antibody-Antibody-Luminescent complex.

Product Specifications

PERFORMANCE INDICATORS	
Degree of automation	Automatic
Sample type	Human serum, plasma, whole blood, urine
Throughput	120-300 tests/hour (max)
First result	≤ 10 minutes
Assay cup	Disposable
Sample / reagent positions	30 pcs / 10 pcs
Reagent refrigeration	24-hour refrigeration, 2–8°C at reagent disk
Sample adding accuracy	10 µL: bias ≤±5%, CV ≤2% 200 µL: bias ≤±3%, CV ≤1%
Reaction disk temperature	Within ±0.3°C of set value; fluctuation <0.2°C
Machinery noise	≤ 500
Linear correlation	r ≥ 0.99, within a concentration range of not less than 3 orders of magnitude
Repeatability (luminescence)	CV ≤ 5% (chemiluminescent reagents)
Stability (luminescence)	Variation ≤ ±10% (chemiluminescent reagents)
Carryover rate	≤ 5×10 ⁻⁶
Intra-batch precision	≤ 8% CV
PHYSICAL & ENVIRONMENTAL	
Dimensions (L×W×H)	430 × 680 × 620 mm
Product weight	Net weight 62 kg
Heavy parts	Reagent processing module 15 kg; Reaction module 20 kg
Power	100–240V~, 50/60Hz, 850VA; Fuse F6.3L250V
Operating conditions	10–30°C, ≤85% RH (no condensation), 61.60–106.0 kPa, altitude ≤4000 m
Storage conditions	–20°C to 55°C, ≤93% RH
SOFTWARE & CONNECTIVITY	
Hardware	RAM 2GB, 4x1 GHz main frequency, ≥8GB memory, Linux 4.1+ OS
Interfaces	USB 2.0 (program upgrade), Ethernet RJ45 (LIS transfer)
Data storage	Test results stored in the AssayDB.db file



SAMPLE-TO-RESULT WORKFLOW

