# NP8-CL

## Automatic Chemiluminescence Analyzer

Automatic single-tube chemiluminescence analyzer with high-throughput workflow and integrated sample, reagent and consumable management.




**180 T/h**

Throughput per module

**14 min**

Time to first result

**30**

Reagent positions

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## Apparatus Structure & Product Characteristics



### Cuvettes loading

Cuvettes loading by dumping, one-time for 1200 cuvettes.

### Used cuvettes recycling

Used cuvettes recycling to separate the solid and liquid, efficiently reducing biological safety risks.

### Reagent positions

30 refrigerated reagent positions, RFID management for reagent info, online reagent replacement.

### STAT samples

STAT samples could be placed randomly and be tested preferentially.

### Activators

RFID management for activators. Special design to prevent activators from being placed incorrectly.

### Interface

Humanized interface design, convenient operation and easy to learn.

## Product Characteristics

### Stable

Multiple magnetic separation technology, high-efficient B/F separation. Patented magnetic field design minimizes magnetic bead loss. Track-based technology ensures accurate micro-volume sampling. Needle detects liquid level, clot and aspiration failure. Carry-over is less than 0.1ppm.

### FAST

Single-module runs up to 180T/H. Time to the first result: 14 minutes.

### Reliable

Full loaded unattended operation for 4 hours. Remote diagnosis. Thorough system of metrological traceability.

### Convenient

Automatic startup and shutdown. Continuous reagent replacement and sample loading during operation. STAT prioritization and automatic rerun.

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## Product Specifications

| Module | Specification |
|---|---|
| Performance | Technology: Automatic / single tube. Principle: Acridinium Ester (AE) Direct Chemiluminescence immunoassay technology. Throughput: 180 Tests/h for one module. Time to the first result: 14min. |
| Sample module | Sample loading capacity: 50, loading with sample racks. Automatic retest. STAT samples could be placed randomly and tested preferentially. |
| Sample loading System module | Sample carry-over <0.1ppm. Foam/Clot and Liquid level detection / Volume tracking / Collision-avoidance. Sample type: Serum / Plasma / Whole blood / Urine. |
| Reagent module | 30 reagent positions. Information management through Radio Frequency Identification Card (RFID). Real-time, onboard mixture of magnetic beads. Reagent online replacement. |
| Consumable module | Loading capacity of cuvettes: 1200. Cuvettes loading by dumping. |
| Detection module | Reaction temperature: 37°C. Mode: Compatible with the common immunoreaction. Mixing: Non-contact Stir. Magnetic separation: Multiple magnetic separation technology. |
| Function | Operation system: Windows 7 and above. Display: LCD touch screen. Remote diagnosis system. Automatic startup & shutdown. Bi-directional communication. |
| Environment Requirements | Temperature: 10°C-30°C. Humidity: 30%-70%. Altitude: 200m-3700m. |

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## Test Menu - Part 1

### Infectious diseases

- HBsAg
- HBsAb
- HBeAg
- HBeAb
- HBcAb
- HIV Ag/Ab
- anti-TP
- anti-HCV
- anti-HAV IgM
- anti-HBc IgM
- HBV PreS1
- anti-HDV IgM
- anti-HEV IgM
- anti-HEV IgG
- SARS-COV-2IgM
- SARS-COV-2IgG
- SARS-COV-2Nab

### Hypertension

- ALD
- Renin
- Corti
- Angio2-

### Autoimmune diseases

- SSA(Ro52)
- SSA(Ro60)
- SSB(La)
- Sm
- sm/RNP
- Sc170-
- Jol-
- His
- AMA-M2
- CENP-B
- Rib-P
- dsDNA
- Nuc
- PCNA
- PM-Scl

### Sex hormones

- LH
- FSH
- PRL
- Prog
- B-HCG
- E2
- Tes
- AMH
- IV--H Prog
- DHEA-SO4
- hGH

### Tumor markers

- AFP
- CEA
- CA125
- CA315-
- CA919-
- t-PSA
- f-PSA
- NSE
- CYFRA121-
- SCC
- CA50
- pro-GRP
- CA242
- CA472-
- HE4

### Thyroid functions

- TSH
- FT4
- TT4
- FT3
- TT3
- anti-TPO
- anti-TG
- TRAB
- Tg
- CT

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## Test Menu - Part 2

### TORCH EUGENICS

- TOXO IgG
- TOXO IgM
- Rubella IgG
- Rubella IgM
- CMV IgG
- CMV IgM
- HSV 2 IgG
- HSV 21/ IgG
- HSV 21/ IgM

### PRENATAL SCREENING

- AFP
- uE3
- Free B-HCG
- PAPP-A

### INFLAMMATION

- PCT
- IL6-

### Autoimmune hepatosis

- AMA-M2
- LKM
- sp100
- SLA

### Autoimmune Diabetes

- IAA
- GADA
- ICA
- IA2-A

### AUTOIMMUNE RHEUMATIC DISEASE

- anti-CCP
- RF

### cardic markers

- CK-MB
- Tn
- Myo
- NT-Pro BNP

### Anemia

- Ferr
- FA
- VB12

### others

- C-P
- INS
- iPTH
- NP-BCL