

## Working principle

Based on various antigen-antibody immunoreaction modes, the full automatic chemiluminescence immunoassay analyzer takes paramagnetic particles as the carrier, and makes use of the direct chemiluminescence method of acridinium ester. It produces unstable intermediates in excited state under the action of free energy released in chemical reaction. When the intermediates get back to the ground state from the excited state, the photons with the same energy level are released. At this point, it measures such photons and thus conducts the quantitative analysis. The luminescent intensity of the reaction is proportional to the concentration in the sample within the detection range.



## Shine i1910

Automatic Chemiluminescence Immunoassay Analyzer

First result within 15 mins

Up to 120 tests/hour

Batch CV  $\leq$  3%

## Parameters

Product Model	Shine i1910
Degree of automation	Fully automatic
Sample type	Human serum and plasma samples
Throughput	Test speed up to 120 tests / hour
Assay cup	Disposable assay cup
Sample position	30
Reagent position	10
Reagent refrigeration	24h refrigeration, reagent disk temperature: 2 °C - 8 °C
Temperature stability of reaction disk	37 °C $\pm$ 0.3 °C, and the temperature fluctuation should not exceed 0.2°C
Repeatability within batch	CV $\leq$ 3%
Carry-over	$\leq 10^{-5}$
Linear correlation	$r \geq 0.99$ , the concentration range is not less than 2 orders of magnitude
Dimensions (L x W x H)	433mm x 679mm x 638mm
Net Weight	62kg

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# CLIA Test Menu

## Tumor Markers

Carcinoembryonic Antigen Quantitative Diagnostic Kit (CLIA)	<b>CEA</b>
Neuron-specific Enolase Quantitative Diagnostic Kit (CLIA)	<b>NSE</b>
Carbohydrate Antigen 19-9 Quantitative Diagnostic Kit (CLIA)	<b>CA19-9</b>
Carbohydrate Antigen 15-3 Quantitative Diagnostic Kit (CLIA)	<b>CA15-3</b>
Carbohydrate Antigen 50 Quantitative Diagnostic Kit (CLIA)	<b>CA50</b>
Cytokeratin 19-fragments Quantitative Diagnostic Kit (CLIA)	<b>CYFRA21-1</b>
Cancer Antigen 125 Diagnostic Kit (CLIA)	<b>CA125</b>

## Fertility

Estradiol Quantitative Diagnostic Kit (CLIA)	<b>E2</b>
Luteinizing Hormone Quantitative Diagnostic Kit (CLIA)	<b>LH</b>
Follicle Stimulating Hormone Quantitative Diagnostic Kit (CLIA)	<b>FSH</b>
Prolactin Quantitative Diagnostic Kit (CLIA)	<b>PRL</b>
Testosterone Quantitative Diagnostic Kit (CLIA)	<b>TES</b>
Total $\beta$ Human Chorionic Gonadotrophin Quantitative Diagnostic Kit (CLIA)	<b>T<math>\beta</math>-hCG</b>
Progesterone Quantitative Diagnostic Kit (CLIA)	<b>PROG</b>
Placental Growth Factor Diagnostic Kit (CLIA)	<b>PLGF</b>
Soluble Fms-like Tyrosine Kinase-1 Diagnostic Kit (CLIA)	<b>sFlt-1</b>

## Prenatal Screening

Alpha-Fetoprotein Quantitative Diagnostic Kit (CLIA)	<b>AFP</b>
Alpha-fetoprotein Quantitative Diagnostic Kit (CLIA)	<b>Ps-AFP</b>
Pregnancy Associated Plasma Protein A Diagnostic Kit (CLIA)	<b>PAPPA</b>
Free $\beta$ Human Chorionic Gonadotrophin Diagnostic Kit (CLIA)	<b>free<math>\beta</math>-HCG</b>
Free Estriol Diagnostic Kit (CLIA)	<b>FE3</b>

## Infectious Disease

2019 Novel Coronavirus (2019-nCoV) Antigen Qualitative Diagnostic Kit (CLIA)	<b>2019-nCoV</b>
2019-nCoV Neutralizing Antibody Detection Kit (CLIA)	<b>2019-nCoV Nab</b>

## Anemia

Ferritin Quantitative Diagnostic Kit (CLIA)	<b>Fer</b>
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## Anemia Kidney Function

Neutrophil Gelatinase-Associated Lipocalin Quantitative Diagnostic Kit (CLIA)	<b>NGAL</b>
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## Thyroid

Total Thyroxine (TT4) Quantitative Diagnostic Kit (CLIA)	<b>TT4</b>
Free Thyroxine (FT4) Quantitative Diagnostic Kit (CLIA)	<b>FT4</b>
Total Triiodothyronine (TT3) Quantitative Diagnostic Kit (CLIA)	<b>TT3</b>
Thyroid Stimulating Hormone Quantitative Diagnostic Kit (CLIA)	<b>TSH</b>
Free Triiodothyronine (FT3) Quantitative Diagnostic Kit (CLIA)	<b>FT3</b>
Thyroglobulin Quantitative Diagnostic Kit (CLIA)	<b>TG</b>

## Cardiac

D-Dimer Quantitative Diagnostic Kit (CLIA)	<b>D-Dimer</b>
Cardiac Fatty Acid Binding Protein Quantitative Diagnostic Kit (CLIA)	<b>H-FABP</b>
N-terminal Atrial Natriuretic Peptide Quantitative Diagnostic Kit (CLIA)	<b>NT-proBNP</b>
Cardiac Troponin T Quantitative Diagnostic Kit (CLIA)	<b>cTnT</b>
Cardiac Troponin I Quantitative Diagnostic Kit (CLIA)	<b>cTnI</b>
Myoglobin Quantitative Diagnostic Kit (CLIA)	<b>MYO</b>
Creatine Kinase Isoenzyme (CK-MB) Quantitative Diagnostic Kit (CLIA)	<b>CK-MB</b>

## Autoimmune

Anti-thyroglobulin Antibody Quantitative Diagnostic Kit (CLIA)	<b>Anti-TG</b>
Anti-thyroid Peroxidase Antibody Quantitative Diagnostic Kit (CLIA)	<b>Anti-TPO</b>