



AI-220

Fully Automated Chemiluminescence
Immunoassay Analyzer

Technology Benefits All



Guangzhou KOFA Biotechnology co.,Ltd.

AI-220

Fully Automated Chemiluminescence Immunoassay Analyzer

Advanced Detection Principle

- ▶ Magnetic bead mixing with high efficiency, ensuring full reaction
- ▶ Acridinium ester direct luminescence, featuring higher specificity and stable performance
- ▶ Strong luminescent signal and excellent anti-interference capability

Efficient Detection Performance

- ▶ Powerful functionality with a testing speed of up to 200 tests per hour
- ▶ Supports simultaneous loading of 20 reagents; reagents are ready-to-use upon opening
- ▶ Equipped with a cooling function to maintain the optimal state of samples and reagents
- ▶ 50 sample positions with a dedicated emergency channel (emergency samples receive priority testing)

Intelligent Operating System

- ▶ Automatic reagent loading, achieving a higher level of workflow automation
- ▶ Supports continuous sample loading with automatic barcode scanning
- ▶ Independent 3D motion robotic arm, ensuring high efficiency and intelligence
- ▶ Chinese-English operating software, compatible with LIS (Laboratory Information System) integration

Desktop and floor-standing models available



Chemiluminescence Test Menu

Thyroid Function

Thyroid Stimulating Hormone	TSH
Total Triiodothyronine	TT3
Free Triiodothyronine	FT3
Total Thyroxine	TT4
Free Thyroxine	FT4
Thyroid Peroxidase Antibody	TPOAb
Anti-Thyroglobulin Antibody	TGAb
Thyroglobulin	TG
Thyrotropin Receptor Antibody	TSHR-Ab
Intact Parathyroid Hormone	IPTH

Cardiac Markers

High-Sensitivity Cardiac Troponin	hs-cTnI
D-Dimer	D-Dimer
Creatine Kinase-MB Isoenzyme	CK-MB
Brain Natriuretic Peptide	BNP
N-Terminal Pro-Brain Natriuretic Peptide	NT-proBNP
Myoglobin	MYO
★ High-Sensitivity Cardiac Troponin T	hs-cTnT

Sex Hormones

Follicle-Stimulating Hormone	FSH
Luteinizing Hormone	LH
Prolactin	PRL
β-Human Chorionic Gonadotropin	β-hCG
Estradiol	E2
Progesterone	PROG
Testosterone	TES
Sex Hormone-Binding Globulin	SHBG
Anti-Müllerian Hormone	AMH

Gastric Function

Pepsinogen I	PG I
Pepsinogen II	PG II
Gastrin-17	G-17

Brain Injury Markers

S100 Protein	S100
Neuron-Specific Enolase	NSE

Glucose Metabolism

C-Peptide	C-Peptide
Insulin	INS
★ Glycated Hemoglobin	HbA1c

Tumor Markers

Alpha-Fetoprotein	AFP
Carcinoembryonic Antigen	CEA
Squamous Cell Carcinoma Antigen	SCC
Cytokeratin 19 Fragment	CYFRA21-1
Neuron-Specific Enolase	NSE
Pro-Gastrin-Releasing Peptide	proGRP
Carbohydrate Antigen 42	CA242
Carbohydrate Antigen 50	CA50
Carbohydrate Antigen 19-9	CA19-9
Carbohydrate Antigen 72-4	CA72-4
Pepsinogen I	PG I
Pepsinogen II	PG II
Gastrin-17	G-17
Carbohydrate Antigen 15-3	CA15-3
Carbohydrate Antigen 25	CA25
Human Epididymis Protein 4	HE4
β-Human Chorionic Gonadotropin	β-hCG
Inhibin A	InhA
Free Prostate-Specific Antigen	fPSA
Prostatic Acid Phosphatase	PAP
Ferritin	FER
S100 Protein	S100

Inflammatory Markers

Procalcitonin	PCT
Serum Amyloid A	SAA
High-Sensitivity C-Reactive Protein	hs-CRP
Interleukin-6	IL-6
★ Heparin-Binding Protein	HBP

Cytokine Detection

Interleukin-1β	IL-1β
Interleukin-2R	IL-2R
Interleukin-6	IL-6
Interleukin-8	IL-8
Interleukin-10	IL-10
Tumor Necrosis Factor-α	TNF-α

Growth and Development

Growth Hormone	GH
Insulin-Like Growth Factor-Binding Protein III	IGFBP-III
★ Insulin-Like Growth Factor-I	IGF-I

Anemia

Folic Acid	FA
Vitamin B12	VB12
Ferritin	FER

Thrombosis Markers

Fibrinogen-α2-Antiplasmin Complex	PIC
Thrombin-Antithrombin Complex	TAT
Tissue Factor	TM
Tissue Plasminogen Activator-Inhibitor Complex	t-PAIC
Fibrin(ogen) Degradation Products	FDP
D-Dimer	D-Dimer

Hypertension Markers

Renin	Renin
Aldosterone	ALD
Adrenocorticotrophic Hormone	ACTH
Cortisol	Cortisol
★ Angiotensin II	Angiotensin II

Bone Metabolism

Osteocalcin	BGP
Calcitonin	CT
Intact Parathyroid Hormone	PTH
25-Hydroxyvitamin D	25-OH VD
★ β-Crosslaps	β-CTX
★ Total Procollagen Amino-Terminal Propeptide	Total-P1NP

Autoimmune Antibodies

Anti-Cyclic Citrullinated Peptide Antibody	Anti-CCP
★ Antinuclear Antibody	ANA
★ Anti-double-stranded DNA Antibody	Anti-dsDNA

Autoimmune Antibodies

Hyaluronic Acid	HA
Type IV Collagen	IVC
Laminin	LN
★ Procollagen III N-Terminal Peptide	PIIINP

Infectious Disease Antibodies

★ Hepatitis B Surface Antigen	HBsAg
★ Hepatitis B Surface Antibody	Anti-HBs
★ Hepatitis B e Antigen	HBeAg
★ Hepatitis B e Antibody	Anti-HBe
★ Hepatitis B Core Antibody	Anti-HBc
★ Hepatitis C Virus Antibody	Anti-HCV
★ Treponema Pallidum Antibody	Anti-TP
★ Human Immunodeficiency Virus Antibody	Anti-HIV
★ Human Immunodeficiency Virus Antigen and Antibody	HIV-Ag/Ab

★ Under Registration

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Fully Automated Chemiluminescence Immunoassay Analyzer

Technical Parameters	
Parameter	Specification
System Type	Fully Automated Chemiluminescence Immunoassay Analyzer
Model	AI-220
Detection Principle	Magnetic bead acridinium ester direct chemiluminescence
Throughput	200 tests/hour
First Result Reporting Time	11 minutes
Sample Positions	50 (including 10 emergency positions)
Sample Types	Serum, plasma, urine, others
Reagent Positions	20, with cooling function
Reaction Cups	Bulk automatic loading; up to 1000 reaction cups can be loaded at one time; can be added at any time; automatic alarm for insufficient quantity
Gripper Transfer System	Efficiently transfers reaction cups between functional areas; equipped with empty position detection, cup missing detection, and vertical collision detection functions
Software System	Supports bidirectional communication with LIS system; switchable Chinese/English interface
Operation Mode	Random, batch, emergency
Dimensions & Weight	1035×792×750 (mm), 200kg
Reagent Type	Multi-person batch test kit
Reagent Specifications	25 tests/kit, 50 tests/kit, 100 tests/kit, 200 tests/kit



Guangzhou KOFA Biotechnology Co.,Ltd.

Address: No.69, Fenghuangsanheng Road,
Huangpu District, Guangzhou, 510555 P.R.China
Tel.: +86-20-89856120