

A3



A1



SEROLOGY TEST
IgG & IgM SARS COV-2

TOTAL LABORATORY **AUTOMATIC SYSTEM**



Simple Sample Test



Simple Operations



Simple Preparations

• OPERATION Accuracy and simplicity



3 Key Technologies **INNOVATION**

Automated platform

- Multiple test methodologies integration
- Automatic laboratory platform
- International reagent

Full-function module

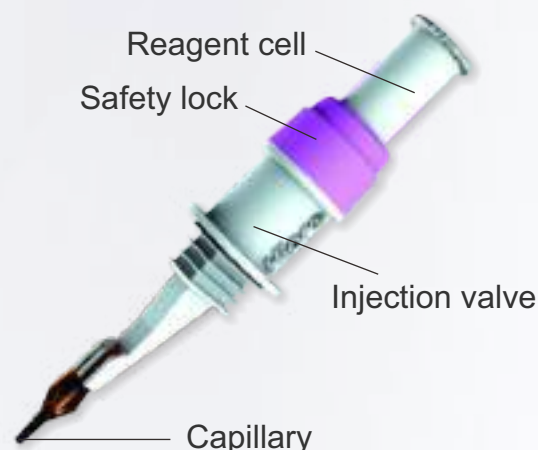
- Single module capable of all functions combination of 1-48 modules
- Appropriate for laboratories of all sizes Scalability for cost savings

3-level Calibration system

- Physical calibration by standard liquid traced to ANSI
- Remote standard curve calibration
- System calibration by custom quality control supplied by Bio-Rad

• QUALITY

RSP-USA is going through JCTLM review. Hipro is to become a JCTLM laboratory. The Hipro assays and control system are certified by ANSI in Aug, 2013, Accredited by (CNAS) ISO17025 and ISO15195 can expected soon.



◆ SIMPLE OPERATION Accuracy and simplicity



1. Collect Sample



2. Insert into Cuvvete



3. Insert into Channel

3 Key Technologies **INNOVATION**

Build-in Battery
Charge 3Hr, Run 30Hr non-stop

3-level Calibration System
Assure reliable and accurate results

Multi-methodologies
Reagent platform sharing

◆ Technical Support

Dimensions		Applicable Methodologies
W x D x H	410 * 355 * 280 mm	Biochemistry
Weight	5kg	Nephelometry
Operation		Turbidimetry
Power supply	AC 110-265 V	Immufluoresence
Sample test time	< 5 minutes	Calibration
Patient input	Barcode, RFID	Hardware calibration
Quality Control		Network calibration
Storage the newest reagents' curves updated by network connection to host server		Third party calibration

CAT.	Parameter	Principle	Sample Type	Sample Size	Test Time	Reference Range	Linearity Range	Clinical Application
Infection	Full range CRP	Nephelometry	Whole Blood	2.5µl	90S	<10mg/L	0,5~200mg/L	Disreiminate bacteria and virus infection.
	Procalcitonin (PCT)	Nephelometry	Serum	20µl	480S	<0.5ng/mL	0,2~60ng/mL	Sepsis, antibiotics monitoring.
Cardiovascular	D-Dimer	Nephelometry	Plasma	15µl	180S	<1.35mg/L	0.5~20mg/L	Early diagnostic for DIC, DVT screening, PE diagnostic, thrombolytic therapy monitoring
Renal Function	Hemoglobin A1c (HbA1c)	Nephelometry	Whole Blood	10 µl	300S	3.8-5.8%	2~14%	Gold standard for detecting diabetes
Serology	Sars-COV-2 (Covid-19)	Nephelometry	Serum/Plasma	10µl	300S	Positive > 48 µg/mL Negative ≤ 48 µg/mL	10~600 µg/mL	This product is Used for the qualitative detection of 2019-nCoV antibodies in human serum or plasma

• Comparison Results Hipro IgG & IgM Sars Cov-2

Reactive sample comparison Sars Cov-2

Hipro A1(Nephelometry Method) with (Eclia Method)

ECLIA (COI)		HIPRO A1 (µg/mL)	
Positive Sample	Negative Sample	Positive Sample	Negative Sample
9.27	0.063	262.2	13.8
34	0.069	> 600	14.1
48.40	0.061	311.3	32.2
12.86	0.060	157.1	14.9
93.54	0.061	571.1	39.9
19.21	0.059	199.9	22.9
16.05	0.062	100.1	48.0
191.9	0.078	> 600	18.7
154.5	0.063	410.3	24.7
14.52	0.064	84	15.4
176.6		>600	
3.14		49.5	
8.53		49.9	
19.48		245.9	

Normal Value :

ECLIA :

>1.0 COI (Reactive Result)

<1.0 COI (Non-Reactive Result)

NEPHELOMETRY :

> 48 µg/mL (Reactive Result)

< 48 µg/mL (Non-Reactive Result)

Performance :

Sensitivity 90%

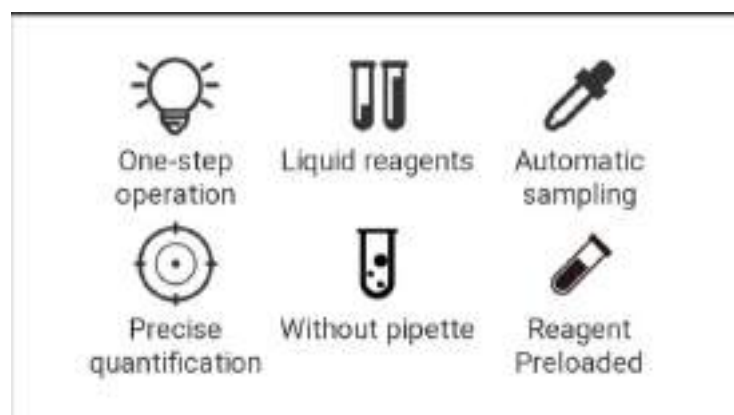
Specificity 95%





Parameter Test

Infection	Cardiovascular disease	Reheumatism
PCT	H-FABP	ASO
Full range CRP	MYO	CRP
SAA	cTnI	Anti-CCP
Renal-Function	HCY	RF
HbA1C	NT-ProBNP	Autoimmunity
CYS-C	Lp(a)	IgA
mAlb	Lp-PLA2	IgG
NGAL	CK-MB	IgM
RBP	D-Dimer	IgE
β 2-MG	Gastric Function	Hormones
α 1-MG	★ HP	HCG
Microelement	PGI	★ LH
25-OH-VD	PGII	Thyroid Function
Liver Function	Tumor Marker	★ T3
ADA	AFP	★ T4
TRF	CEA	★ TSH
PA	★ PSA	★ FT3
★ HPT	★ fPSA	★ FT4



Daftar Pengguna Alat Hipro

SURABAYA

RS ADI HUSADA KAPASARI

RS MITRA HUSADA

RS RAHMAN RAHIM

RS AISYIAH TULANGAN

RS MUJI RAHAYU

LAB BIOGEN

LAB KENCANA MEDIKA

LAB SPEKTRUM

MOJOKERTO

RS HASANAH

RS EMMA

RS REKSO WALUYO

KUDUS

RSA KUDUS

JOGJAKARTA

LAB PRIMA

SIDOARJO

RS DKT

NGANJUK

RS BAYANGKARA NGANJUK

RSUD NGANJUK

MAGETAN

RSIA BHAKTI PERSADA

MADIUN

LAB MERAH PUTIH

LUAR JAWA

RS KASIH HERLINA TIMIKA

KLINIK BORMED KALTIM

MANADO MEDICAL CENTER

MALANG

RS WAFI

RS LAWANG MEDIKA

RSIA MITRA DELIMA

RS BAYANGKARA HASTA BRATA BATU

RS BAPTIS BATU

RS UNIVERSITAS MUHAMMADIYAH MALANG

RS UNIVERSITAS BRAWIJAYA MALANG

PANDAAN

RS MITRA SEHAT PANDAAN

RS SAHABAT

KEDIRI

RS SITI KHODIJAH

RS AMELIA

JOMBANG

RS PELENGKAP

RS AIRLANGGA

Tulungagung

LAB ULTRA MEDIKA

RS PUTRA WASPADA

RSUD dr, ISKAK

LAB SAM HUSADA

RS SATITI PRIMA HUSADA

BLITAR

RSU AMINAH

RSUD NGUDI WLINGI

RSI Muhammadiyah Kendal

RS Baitul Hikmah Kendal

RSUD Sunan Kalijaga Demak

RS BANYUMANIK