

Hotgen



UPT-2800

UP-CONVERTING PHOSPHOR IMMUNOASSAY ANALYZER

A breakthrough technology from China—bringing
advanced immunodiagnostics to the world



Features

ACCURATE

- High sensitivity, no background interference.
- Small CV
- Quality controls available, reliable accuracy.

QUICK

- Throughput up to 180T/H, reading results in 20 seconds.

RELIABLE

- Stable luminescence, no decay.



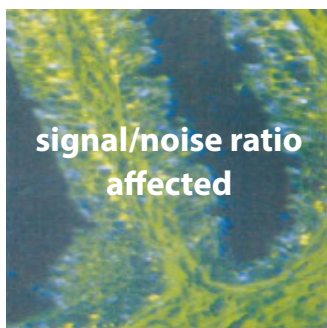
VERSATILE

- Portable size, easy to operate.
- Adaptable to IVD, public safety, and industrial scenarios.
- Low maintenance requirement.

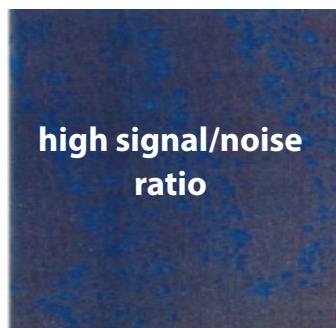
Technical Principle

Up Converting Phosphor Technology (UPT) is based on immunochromatographic technology using rare earth nano upconversion luminescent particles (UCP particles) as biological tracers. Excited by low-energy invisible infrared light, the UCP particles emit high-energy visible light, because of anti-Stokes effect. The instrument combines precision instrument with immune reactions, realizing quick detection of test objects both qualitatively and quantitatively through the conversion of optical signals.

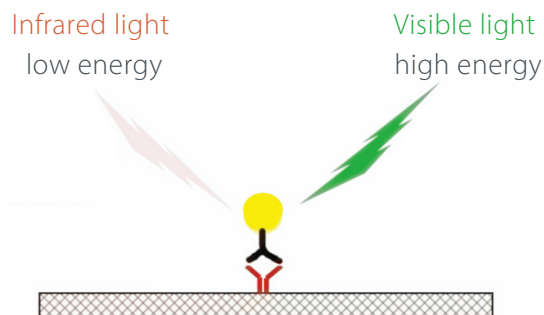
Traditional FIA



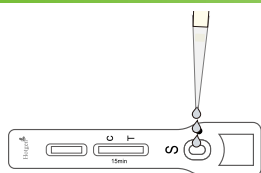
Patented UPT



Rare Earth Nano Upconversion Luminescent Particles (UCP)



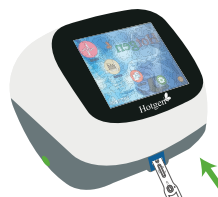
Test Procedure



Add sample



Incubation
(inside/outside the analyzer)



Start testing



Get result and print out

Application



HOSPITAL LABORATORY



LABORATORY

Technical Parameters

Assay Method	Up-converting phosphor technology-based lateral flow assay	Working environment	Temperature: 10℃~30℃; Humidity: ≤85%; Atmospheric pressure: 86 kPa~106kPa
Result	Quantitative	Transportation and storage environment	Temperature: -40℃~+55℃; Humidity: ≤85%; Atmospheric pressure: 86 kPa~106 kPa
Language	English/German/Chinese		
Display	8 inch touch screen		
Detection speed	Getting results in 20 seconds.		
Printer	Internal thermal printer	Dimension	355mm×315mm×270mm (L*W*H)
Storage memory	10,000 test results	Weight	5.6Kg
Power supply	AC 100-240V, 50~60Hz	Data management	LIS/HIS connection

Test Menu

Panel	Parameter	Qualification	Linear Range	Reference Values	Sample Type
Cardiac	cTnI	NMPA,CE IVDR	0.1-40 ng/mL	<0.5 ng/mL	S/P/WB
	cTnT	NMPA	50-10000 ng/L	<100 ng/L	S/P/WB
	CK-MB	NMPA, CE	1-80 ng/mL	<4.99 ng/mL	S/P/WB
	H-FABP	NMPA, CE	2-100 ng/mL	<7 ng/mL	S/P
	MYO	NMPA, CE	5-500 ng/mL	<48.8 ng/mL	S/P/WB
	NT-proBNP	NMPA, CE IVDR	5-35000 pg/mL	Age≤75, <450 pg/mL; Age>75, <900 pg/mL.	S/P/WB
	LP-PLA2	NMPA, CE	5-800 ng/mL	<175 ng/mL	P
	D-Dimer	NMPA, CE	50-5000 ng/mL	<500 ng/mL	P
	cTnI/CK-MB/MYO	NMPA,CE IVDR	cTnI: 0.1-40 ng/mL; CK-MB: 1-80 ng/mL; MYO: 10-500 ng/mL.	cTnI: <0.25 ng/mL; CK-MB: <4.99 ng/mL; MYO: <48.8 ng/mL.	S/P/WB
	cTnI/NT-ProBNP	NMPA,CE IVDR	cTnI: 0.1-40 ng/mL; NT-ProBNP: 30-30000 pg/mL.	cTnI: <0.25 ng/mL; NT-ProBNP: <125 pg/mL.	S/P/WB
Inflam-mation	CRP	NMPA, CE IVDR	0.5-150 mg/L	For evaluation of infection: <8.0 mg/L; For risk stratification of cardiovascular disease: Low risk: <1.0 mg/L; Medium risk: 1.0-3.0 mg/L; High risk: >3.0 mg/L.	S/P/WB
	PCT	NMPA, CE IVDR	0.02-50 ng/mL	<0.5 ng/mL	S/P/WB
	IL-6	NMPA, CE IVDR	3-4000 pg/mL	<7 pg/mL	S/WB
	SAA	NMPA, CE	5-150 mg/L	<10 mg/L	S/WB
	CRP/SAA	NMPA, CE	CRP: 5-150 mg/L; SAA: 5-150 mg/L.	CRP: <8 mg/L; SAA: <10 mg/L.	S/WB
	PCT/IL-6	NMPA	PCT: 0.05-50 ng/mL; IL-6: 3-4000 pg/mL.	PCT: <0.5 ng/mL; IL-6: <7 pg/mL.	S/P/WB
Hepatic Disease	CIV	NMPA, CE	5-1000 ng/mL	<140 ng/mL	S/P
	LN	NMPA, CE	5-1000 ng/mL	<140 ng/mL	S/P
	HA	NMPA, CE	5-1000 ng/mL	<100 ng/mL	S/P
	PIIINP	NMPA, CE	5-1000 ng/mL	<120 ng/mL	S/P
	AFP	NMPA, CE IVDR	5-1000 ng/mL	<20 ng/mL	S/P
	GP73	NMPA, CE	20-500 ng/mL	<150 ng/mL	S/P
	TIMP-1	NMPA, CE	50-1000 ng/mL	<140 ng/mL	S/P
Diabetes	C-P	NMPA, CE IVDR	0.05-30 ng/mL	1.1-4.4 ng/mL	S/P
	INS	NMPA, CE IVDR	0.5-300 mIU/L	2.2-25 mIU/L	S/P
	ADP	NMPA	0.2-30 μg/mL	0.96-13.65 μg/mL	S/P
	HbA1c	CE IVDR	4-15%	4.0% - 6.0%	WB
Thyroid	TT3	CE IVDR	0.3-6 ng/mL	0.75- 2.08 ng/mL	S/P
	TT4	CE IVDR	10-240 ng/mL	50-143 ng/mL	S/P
	FT3	CE IVDR	1-32 pg/mL	1.9-4.44 pg/mL	S/P
	FT4	CE IVDR	1-76 pg/mL	9.2-17.6 pg/mL	S/P
	TSH	CE IVDR	0.1-100 mIU/L	0.27-4.2 mIU/L	S/P

Panel	Parameter	Qualification	Linear Range	Reference Values	Sample Type
Sex Hormone	AMH	NMPA, CE IVDR	0.15-16 ng/mL	Females aged 20-39: 0.50-9.95 ng/mL; Females aged 40-50: 0.15-4.44 ng/mL.	S
	FSH	CE	1-150 mIU/mL	Male: 1.5-12.3 mIU/mL; Female: Follicular phase: 3.5-12.5 mIU/mL; Fertile period: 4.7-21.5 mIU/mL; Luteal phase: 1.7-7.7 mIU/mL; Post-menopausal: 25.8-134.5 mIU/mL.	S/P
	LH	CE	1-120 mIU/mL	Male: 1.7-8.6 mIU/mL; Female: Follicular phase: 2.3-12.5 mIU/mL; Fertile period: 14.0-95.0 mIU/mL; Luteal phase: 1.1-11.4 mIU/mL; Post-menopausal: 7.7-58.5 mIU/mL.	S/P
	E2	CE	15-3000 pg/mL	Male: 15-44.19 pg/mL; Female: Follicular phase: 15.17-157 pg/mL; Fertile period: 25.82-456 pg/mL; Luteal phase: 27.51-306 pg/mL; Post-menopausal: 15-43.78 pg/mL.	S/P
Preterm Birth Prediction	β -HCG	CE	5-50000 mIU/mL	Non-pregnant female: <20mIU/mL; Pregnant female: 3 weeks: 5.0-72.5 mIU/mL 4 weeks: 6.2-750 mIU/mL; 5 weeks: 17.6-7543 mIU/mL; 6 weeks: 152-57587 mIU/mL; 7-8 weeks: 3704-232000 mIU/mL 9-12 weeks: 24851-289562 mIU/mL; 13-16 weeks: 8935-257645 mIU/mL; 17-18 weeks: 4058-165587 mIU/mL.	S/P/WB
	fFN	NMPA, CE	10-2000 ng/mL	<50 ng/mL	Cervical and vaginal secretions
Renal Function	NGAL	NMPA, CE	10-1000 ng/mL	Serum: <145 ng/mL; Urine: <45 ng/mL.	S/Urine
	mAlb	CE	5-500 mg/L	≤ 20 mg/L	Urine
Rheumatoid Arthritis	Anti-CCP	NMPA, CE	25-1600 RU/mL	<25 RU/mL	S
Covid-19	2019-nCoV	NMPA, CE	/	<0.25	Nasal swab
	Antigen				/Throat swab
	2019-nCoV Neutr- -alizing Antibodies	NMPA, CE	/	<0.25	S/P/WB
Bone Metabolism	25-OH Vitamin D	NMPA, CE IVDR	6-120 ng/mL	≥ 30 ng/mL	S/P/WB
Immuno-globulins	IgE	CE	5-1000 IU/mL	Age group: <1: <16.00 IU/mL; 1-5: <58.00 IU/mL; 6-9: <98.00 IU/mL; 10-15: <185.00 IU/mL; ≥ 16: <100.00 IU/mL.	S/P/WB
DOA	KET	NMPA, CE	/	< 0.2 ng/mg	Hair
	MET	NMPA, CE	/	< 0.2 ng/mg	Hair
	MOP	NMPA, CE	/	< 0.2 ng/mg	Hai
	THC	CE	/	<1ng/mL	Saliva
Anemia	Ferr	CE	5-1000 ng/mL	male: 30-400 ng/mL; female: 13-150 ng/mL	S/P/WB
	VB12	/	/	/	/
	FA	CE	2-24 ng/mL	18-89 years old: 3.5~20ng/mL	S/P

All the above product specifications are 40T.

• Available • Coming soon

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