

Galaxy

Automated Fully Enclosed qPCR Instrument



Igenesis (Shanghai) Co., Ltd.

4/F, Building 1, Lane 500, Furonghua Road, Pudong, Shanghai, P.R.China

Tel : +86 21 38016598

Email: info@igenesysbio.com

Website: www.igenesysbioglobal.com

Igenesis (Guangzhou) Co., Ltd.

Igenesis (Shenzhen) Co., Ltd.



Galaxy

Automated Fully Enclosed qPCR Instrument

[Fully Enclosed | Integrated | Intelligent]

Sample In Result Out



Intelligent

Users only need to load samples into the system, system can recognize sample type and protocol, then receive multiplex qPCR result automatically.



Integrated

Performs nucleic acid extraction, amplification, and detection all in one instrument.



Fully Enclosed

Contamination free, biosafety guaranteed, no need for PCR lab.



Multiplex qPCR Detection

7 color fluorescent channels for multiplex detection.



Rapid Detection

1-2 hours to get results, shorten turn-around time.

	Galaxy Pro	Galaxy Lite	Galaxy Nano
Heat ramping	$\geq 4.2^{\circ}\text{C/s}$		$\geq 2.5^{\circ}\text{C/s}$
Multiplex melting curve analysis	Supported up to 54 plexes		Supported up to 18 plexes
Throughput	1-12 samples	1-6 samples	1 sample
Fluorescent linear	$R \geq 0.99$		
Precision	$\text{CV} \leq 3\%$		
Size	550*480*400mm	330*400*480mm	175*285*435mm

Fluorescence channel	Channel No.	1	2	3	4	5	6	7
	Excitation Filter	460nm	525nm	543nm	571nm	624nm	675nm	350nm
	Emission Filter	525nm	564nm	584nm	624nm	675nm	710nm	460nm
	Suitable Dyes	FAM	HEX	TAMRA	ROX/TEXAS RED	CY5	CY5.5	AMCA
	Light Source	white LED						UV LED

Modular and Scalable Configuration

6 sample test
throughputs per unit,

Upgraded to
24 samples in parallel,
4 protocols individually.



12 sample test
throughputs per unit,

Upgraded to
96 samples in parallel,
16 protocols individually.



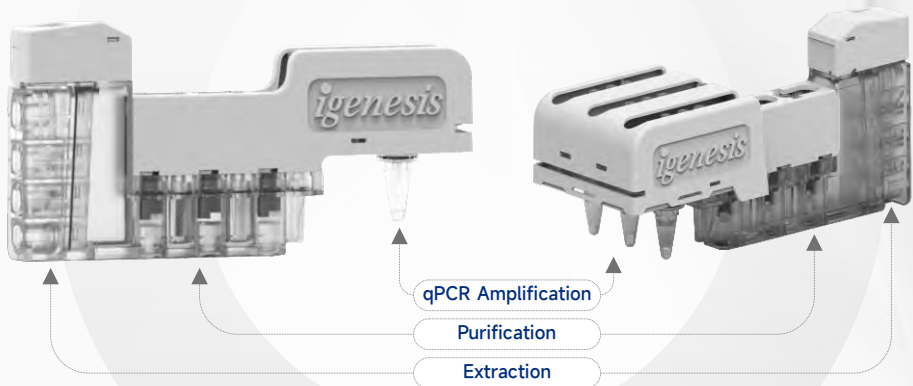
Core Technology iCassette

Key Patents

Magnetic bead transfer structure and process technology
Material distributed mixing device structure and Technology
Solid material transfer + microfluidic technology

Ready to use

Fully enclosed
Preloaded reagent
Automated lyophiliz technology



Compactibility

Extract nucleic acids from complex biological samples (swab, serum, plasma, urine, sputum, saliva, tissue, etc)

Open System

Compatible with third-party PCR kits with more possibility

Multiplex melting curve analysis

Supported up to 18 plexes (Galaxy Nano)
Supported up to 54 plexes (Galaxy Lite & Pro)

Workflow

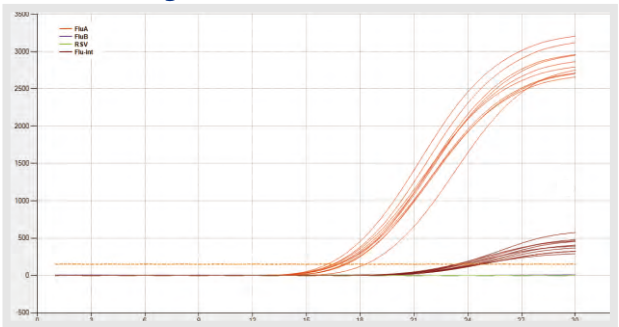


Add sample to the iCassette

Insert iCassette to instrument

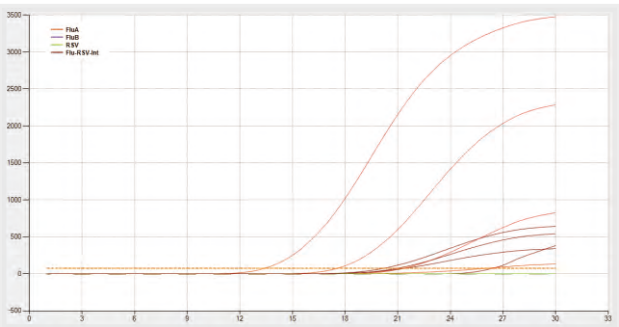
Report result automatically

Accuracy



These are the accurate results of influenza A viruses (seasonal H3N2) detected from the Accurate National reference panel for influenza A/B viruses nucleic acids analysis reagent, diluted by 1:10, and the concentration is 6.0×10^5 (TCID₅₀/L)

Linear Results



These are the linear results of influenza A viruses (seasonal H1N1) detected from the Detection Limit National reference panel for influenza A/B viruses nucleic acids analysis reagent. The concentrations are 2.5×10^4 (TCID₅₀/L), 2.5×10^5 (TCID₅₀/L), 2.5×10^6 (TCID₅₀/L), 2.5×10^7 (TCID₅₀/L).

Classification	Cat.No	Product Name	Packaging	Remark
Instrument	101-0022-02	Automated Fully Enclosed qPCR Instrument -- Galaxy Nano	1 unit	1 test sample throughput
	101-0038-01	Automated Fully Enclosed qPCR Instrument -- Galaxy Lite	1 unit	1-6 test sample throughputs
	101-0037-01	Automated Fully Enclosed qPCR Instrument -- Galaxy Pro	1 unit	1-12 test sample throughputs
	101-0029-01	Ultrasoner--Galaxy USL	1 unit	/
Universal kit	106-0051-01	Nucleic Acid Extraction and Purification Kit (One in one)	12 Test/kit	Up to 18-plexes Detection
	106-0119-01	Nucleic Acid Extraction and Purification Kit (Three in one)	6 Test/kit	Up to 54-plexes Detection
Respiratory Infectious Diseases	106-0050-01	SARS-2-CoV(Covid-19) nucleic acid detection cartridge (Real-time reverse transicription PCR method)	12 Test/kit	2-plexes Detection
	106-0057-01	SARS-2-CoV(Covid-19)/Influenza A Virus / Influenza B Virus/Respiratory Syncytial Virus Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	5-plexes Detection
	106-0056-01	Diagnostic Kit for Mycobacterium Tuberculosis (MTB) complex DNA and Rifampicin resistance Mycobacterium tuberculosis (PCR-Fluorescence)	12 Test/kit	6-plexes Detection
	106-0052-01	Influenza A Virus / Influenza B Virus/Respiratory Syncytial Virus Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	3-plexes Detection
	106-0069-01	MP/AdV/RhV/HMPV Diagnostic Kit (Real-time PCR)	12 Test/kit	4-plexes Detection
	106-0055-01	Streptococcus Pneumoniae/ Klebsiella Pneumoniae/ Legionella Pneumophila/ Haemophilus influenzae/ Bordetella Pertussis Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	5-plexes Detection
Carbapenem resistance	106-0102-01	Carba-R Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	5-plexes Detection
Intestinal Infectious Diseases	106-0054-01	Coxsackievirus A6/A10/A16/Enterovirus 71 RNA Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	4-plexes Detection
	106-0053-01	Coxsackievirus A16/Enterovirus 71/Enterovirus RNA Diagnostic Kit (PCR-Fluorescence)	12 Test/kit	3-plexes Detection
Sexual Infectious Diseases	106-0068-01	Chlamydia trachomatis/Niesseria gonorrhoeae/Ureaplasma urealyticum Diagnostic Kit (PCR-Fluorescence) *RUO	12 Test/kit	3-plexes Detection
	106-0064-01	Nucleic acid detection kit for 16&18 human papillomavirus (HPV) genotypes (PCR fluorescence probe method)	12 Test/kit	2-plexes Detection
	106-0062-01	Nucleic Acid Detection Kit for 18 High-risk and Low-risk 6&11 Human Papillomavirus (HPV) Genotypes (PCR-Fluorescence)	6 Test/kit	20-plexes Detection
	106-0066-01	Diagnostic Kit for detecting of 16 high-risk and genotyping of 16&18 human papillomavirus (HPV) (PCR fluorescence probe method)	12 Test/kit	5-plexes Detection
Arbo Infectious Diseases	106-0044-01	DENV/CHIKV/ZIKV Diagnostic Kit (Real-time PCR)	12 Test/kit	3-plexes Detection



About Igenesis

Igenesis (Shanghai) Co., Ltd. was founded in 2015. The headquarter is based in Shanghai International Medical Zone, with a R&D and manufacturing center of about 7,000 square meters. In addition, there're a reagent R&D center in Guangzhou and a manufacturing center in Shenzhen. The products are widely sold all over China. Igenesis has been focusing on the research and development of POCT molecular diagnostic products combining high technology and biotechnology. Based on POCT molecular diagnosis technologies, Igenesis has successfully developed a series of multiple nucleic acid detection products, which can be applied to the fields of microbial detection, genetic detection for personalized medicine, cancer detection, forensic evidence, food safety, etc.

Under the new trend of "Sample in, Result Out" of global molecular diagnosis, Igenesis has become one of the leading providers of automated fully enclosed qPCR systems with strong technical advantages and market competitive ability. Igenesis' innovative POCT molecular diagnostic system provides highly integrated and fully enclosed solutions for qPCR detection. It is widely used in medical institutions, CDCs, forensic centers, etc.

