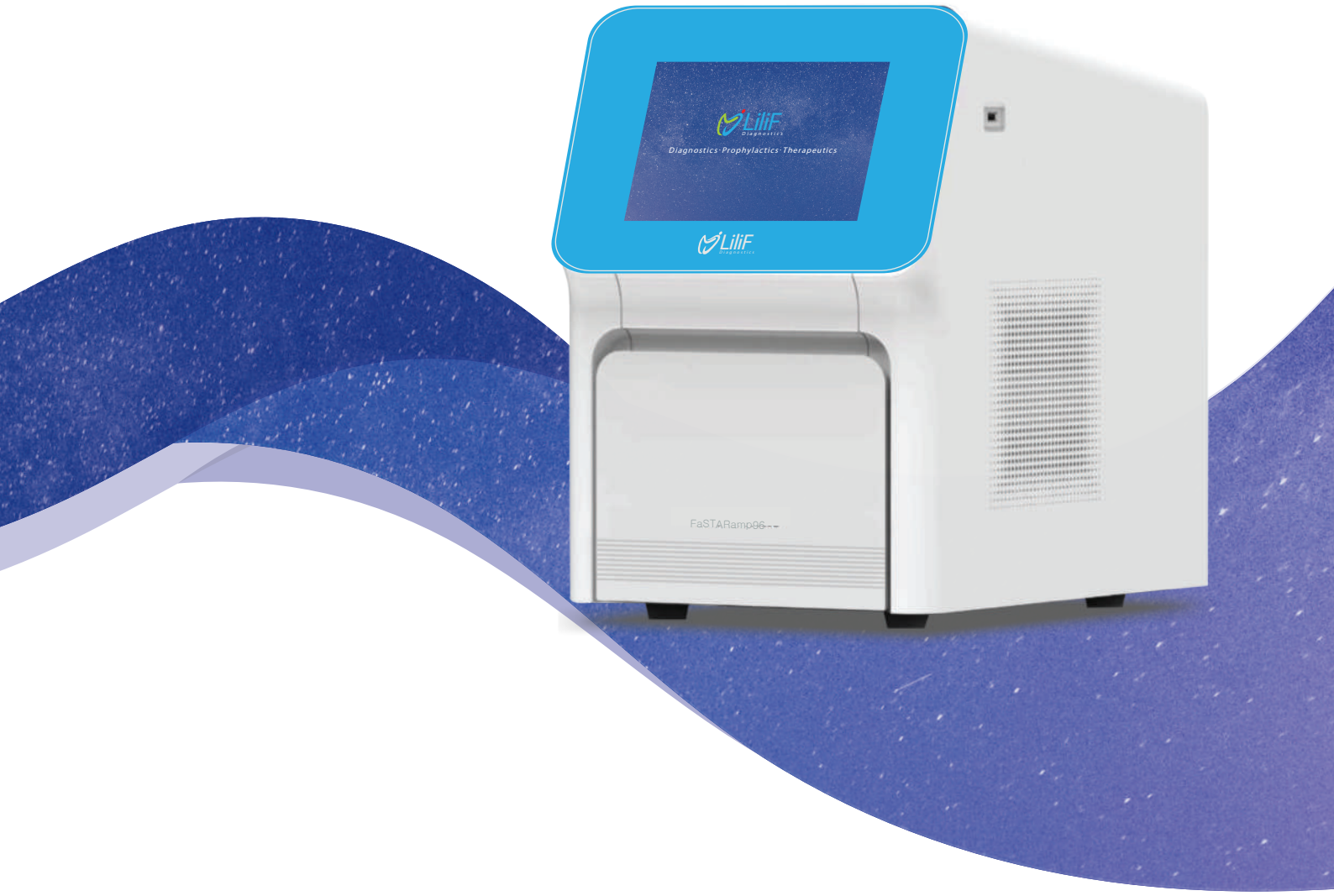
RUO

FaSTARamp96

Real-time PCR System



LiliF Diagnostics

Overseas Department

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GMP

FaSTARamp96

Real-time PCR Syetem

LiliF® Diagnostics' 'FaSTARamp96 Real-time PCR System' is a 96 Wells & 5-Target multiplexing device with independent temperature control technology. We provide the automated solutions you need to obtain accurate and reproducible results. Easy control through the user-friendly built-in color touch screen (10.4 inches). You can use various functions that increase the convenience of experiments, such as main unit operation, PCR step mode, power outage protection function, built-in hot lid, and network control.

Feature

Main unit operation

It has a 10.4-inch built-in color touch screen, so it is very easy to operate and can be operated independently of the computer.

Built-in Hot Lid

It has a constant pressure and a built-in hot lid to prevent dangers that may occur due to direct contact by the user.

PCR Step mode

It can be performed by providing various PCR step modes such as touchdown, long, gradient and melting step.

Network control

10 units can be connected to one PC at the same time and remotely controlled to realize centralized control

Independent temperature control

Optimized PCR is realized through independent temperature control of the heating block and control function with high uniformity

Power failure protection function

The contents of the experiment in progress are automatically saved when the power is cut off, and the interrupted experiment can be executed continuously when the power is re-applied.

Specification

Parameter		Specification
Basic	Model	FaSTARamp96 Real-time PCR System
	Cat. No.	IMC-FAST-A96
	Throughput	96 wells
Optical System	Excitation & Detection	6 Filtered LEDs & 6 Filtered photodiodes
	Channel & Compatible Fluorophores	6 Channel C1 : FAM, SYBR Green I, LC Green, Eva Green, SYTO 9 C2 : HEX, TET, VIC, JOE 3 C3 : Texas Red, ROX C4 : Cy5 C5 : Alexa Fluor 680 C6 : FRET probe (*independent operation)
Module	Detection Duration	Detection of 96 wells of all channels completed in 7s.
	Lightsource	High-brightness, long-life, maintenance-free LED light source
	Detector	Photodiodes(PDs), excitation, and scan at the top
	Temperature Accuracy	≤ 0.1°C
	Average Heating Ramp	≥ 4.5°C/s
	Max Heating Ramp	≥ 6.1°C/s
	Special Temperature Protocol	Support PCR assays of up to 12 thermal gradients, Long PCR, Touch Down PCR
Function	Control Mode	Stand-alone operation: 10.4-inch touchscreen control
		Network operation: PC software control via direct connection or LAN (local area network)
	Power Failure Protection	Automatically start running experiments after power supply, no need wait PC software
	Data Storage	Upload and download through USB Disk, > 1000 results can be stored in macine
	Reforting Function	Templates reserved, customized experiment report
	Power Supply and Consumption	AC 100~240V, 50/60Hz, 900VA
Others	Dimension(Wx L x H) / Weight	350 × 485 × 500 mm / 29.4kg
	Suitable Consumables	0.1 & 0.2 ml 96-well plate, 8-tube strips, single-tube strips (transparent, matte, and creamy)
	Environment	10°C ~30°C; 0%~85%, non-condensing; 0m - 2000m, 85.0kPa~106.0kPa

Stand-alone Operation of FaSTARamp96

Main Interface

Software main interface is consisted of status bar, menu bar, main operation area and information & shortcut keys

Run Editor

User can set temperature, cycle, reaction system, hot lid and fluorescence in run editor interface

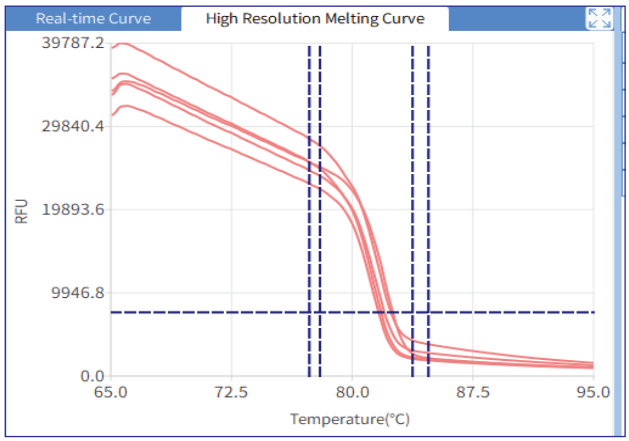
Convenient PCR Configuration Setting with Preset Stage

Preset Stage	
Preincubation	
2 Step Amplification	
Melting	
Cooling	
Rreverse Transcription	
3 Step Amplification	
Continuous Melting	
Custom Stage	

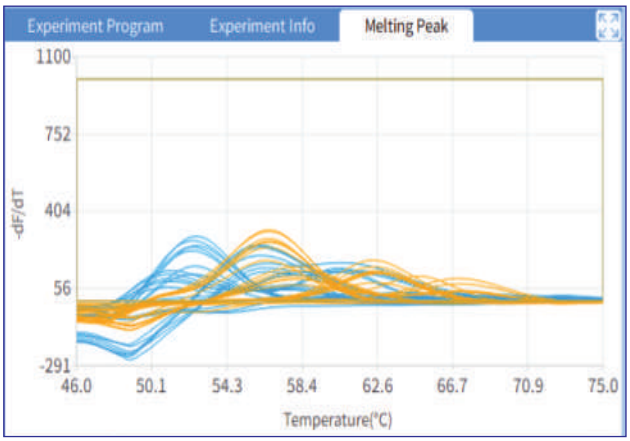
Intuitive & Convenient Software

A user-friendly interface provides convenience for every steps of Real-time PCR process including protocol setup, data analysis and result storage. Analysis software that comes with FaSTARamp96 has different tools. Standard Curve Analysis, Relative Quantification Analysis, Genotyping Analysis, High Resolution Melting Analysis, Melting Curve Analysis, End Point Flurescence Analysis. Simply choose an appropriate tool for the experimental purpose.

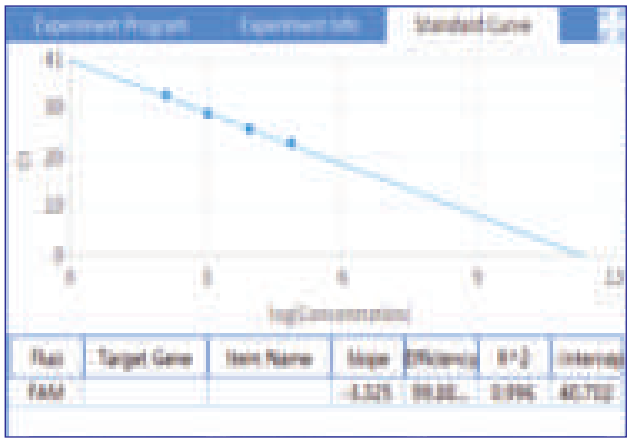
High Resolution Melting Analysis



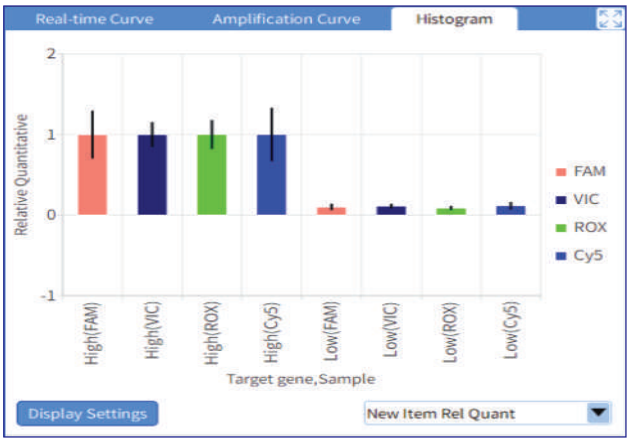
Melting Curve Analysis



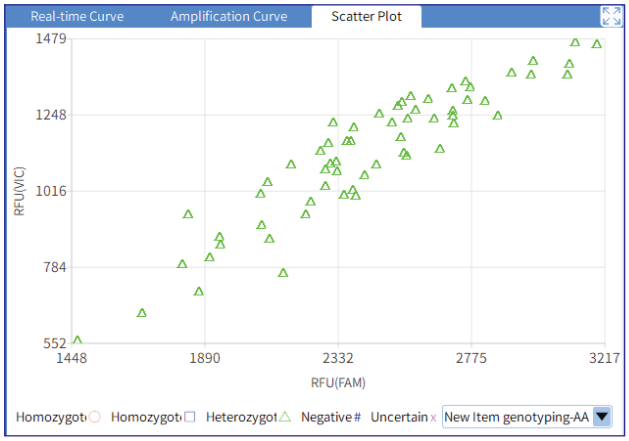
Standard Curve Analysis



Relative Quantification Analysis



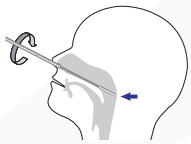
Genotyping Analysis



End Point Flurescence Analysis

LiliF® Diagnostics Full Automation System

LiliF® Diagnostics provides a 'total solution for molecular diagnosis', from automated nucleic acid extraction systems to result analysis software.
LiliF®'s automated nucleic acid extraction equipment FaSTARprep96 Automated Nucleic Acid Extraction System and dedicated extraction kit FaSTAR-XT
Easily obtain high-yield and pure products. Real-time PCR equipment FaSTARamp96 Real-time PCR System is together with LiliF® Real-time PCR Kit
It can be applied to Halal diagnostic fields and anyone can obtain optimal results accurately and quickly.



Sample collection

Extraction Part

Automated Nucleic Acid Extraction

Automated extraction products

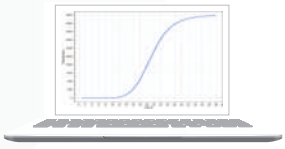
Product	Cat. No.	Size	Description
FaSTARprep96 Automated Nucleic Acid Extraction System	IMC-FAST-P96	System	Autoprep
FaSTAR-XT PGS DNA/RNA Kit	17602-96	96 tests	Extraction Kit

Detection Part

Real-time PCR Device

Molecular Diagnostic Kits

Product	Cat. No.	Size	Description
FaSTARamp96 Real-time PCR System	IMC-FAST-A96	System	Real-time PCR Machine
LiliF® Halal Real-time PCR Kit Series [MasterMix, PreMix]	IP54247	50 Tests	Real-time PCR Kit



Result Analysis

it is LiliF®

LiliF® Diagnostics, which encompasses
humans and animals and covers state-of-the-art
molecular diagnostics(MDx) and rapid diagnostics(RDT)
provides Relief and Belief to our customers.