

Real-Time PCR System 2 Channel ITR-1020



The Iris ITR-1020 real time PCR is applicable for real-time detection in farming, breeding, pasteurization, and water sources along with other useful application for detecting and diagnosis epidemic disease, inspection and quarantine in the field of food safety and R & D sectors. ITR-1020 is fluorescence quantitative PCR types with Marlow custom peltier design.

Technical Specification:

Product Type	ITR-1020
Temperature Range (°C)	0 to 100°C
Ramp Rate	6 °C/s
Selectable Heated Lid Temperature	30 to 115°C (Default 105°C)
Sample Volume	10 to 100 µl
Detector	Photoelectric Detector
Fluorescence (Detection range)	F1: 520 to 540 nm & F2: 540 to 580 nm
Dynamic Range	1 to 1010 Copies
Sensitivity (detection threshold)	1 Copy
Temperature Uniformity	± 0.25 °C
Temp Accuracy	± 0.25 °C
Additional Dyes	F1:FAM/SYBR Green I, F2:HEX/VIC/JOE/TET
Sample Capacity (0.2ml)	16x0.2 ml(2x8 well, dual block)
Data Transfer	Wi-Fi, USB2.0
Power (W)	250 W
Dimensions L x W x H (mm)	300x267x198 mm
Net Weight (kg)	5.5 kg
Electrical Requirements	15 V DC
Catalogue No.	6205010-00

Technical Data:

Model	ITR-1010	ITR-1020
Capacity	16x0.2 ml(2x8 well, dual block)	
Reaction Volume	10 to 100 µl	
Display	7 inch TFT Display	
Temperature Range	0 to 100°C	
Resolution	0.1 °C	
Uniformity	± 0.25 °C	
Accuracy	± 0.25 °C	
Temperature Control	Block/Tube	
Sensitivity	1 Copy	
Test Dynamic Range	1 to 10 ¹⁰ Copies	
Fluorescent Dye	F1:FAM/SYBR Green I, F2:HEX/VIC/JOE/TET	
Channel	Single Channel	Dual Channel
Ramping Rate	6 °C/s	
Hot Lid Temperature	30 to 115°C (Default 105°C)	
Excitation Wavelength	460 to 550 nm	
Emission Wavelength	F1: 520 to 540 nm	F1: 520 to 540 nm & F2: 540 to 580 nm
Detector	Photoelectric Detector	
Function	Absolute/Relative Quantifications/Melting curve/Genotyping	
Connectivity	Wi-Fi, USB2.0	
Power Consumption	250 W	
Dimensions	300x267x198 mm	
Weight	5.5 kg	
Electrical Requirements	DC15 V	
Catalogue No.	6205005-00	6205010-00



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