

Ultrassay Biotech Co., Ltd.



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UltraAmp-48 Real-Time PCR System

Product Introduction



Based on the principle of polymerase chain reaction (PCR) and real-time fluorescence monitoring technology, it is used together with supporting detection reagents to conduct qualitative, quantitative detection or scientific analysis in nonclinical DNA/RNA samples.

Application Area



- Detection of non-clinical, animal and plant pathogens;
- Basic scientific research and genetic screening;
- Food hygiene quarantine and import and export quarantine.

Advantanges



Ultra-fast

With rapid temperature rise and fall functions, high-precision temperature control and an efficient thermal cycle system, it can complete PCR amplification in as fast as 30 minutes, greatly speeding up the detection process.



High-throughput

Supporting up to 8 colors of fluorescence, multiple targets or genes can be detected simultaneously, Greatly improving detection throughput and efficiency.



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Portable size

Less than the size of an A3 paper and weighing less than 10 kg, UltraAmp-48 can be run directly after being moved without any calibration, making it easy to place, carry and use.

Easy operation

UltraAmp-48 with a friendly operating interface easy to use. Unique SOP design and automatic result interpretation functions make it easy to obtain conclusions. Covers a variety of analysis modes: qualitative/quantificative, standard melting curve, end-point allele identification, high-resolution melting curve (HRM), isothermal amplification, etc.



High accuracy

The well-to-well temp. uniformity reaches ±0.1°C, allowing for rapid and accurate detection of gene expression differences as low as 1.5-fold. The excellent optical system combines sensitivity and stability, providing you with highly sensitive, accurate and reliable data.

Multi-blocks



±0.1°0

Up to 6 blocks are provided. Each sub-block is integrated with an independent temperature control system and heating cover, which can be controlled and operated independently, making the equipment more flexible and easy to use, and can also adapt to different experimental needs.

High compatibility



The open system is compatible with a variety of reagents and experimental protocols on the market, making it convenient for users to conduct experiments according to different needs.

Multiple gradients



6 independent and precise temp, control areas, with no limit on temperature differences between adjacent areas. 6 experiments with different temp. gradients and time gradients can be set up simultaneously to find the best reaction conditions by comparing the amplification effects at different temperatures or holding times.

Technical Specification

Performance			
Sample Capacity	48 wells (6x8x0.2ml)		
Parallel Experiment	6 independent blocks, which can r		
Consumables	0.2ml PCR tube, 0.2ml 4-strips		
Light Source	High brightness and long life LED		
Detector	High sensitivity photodiode modul		
Dynamic Range	10 [°] ~ 10 ¹⁰		
Sensitivity	1 сору		
CV	<1.00%		
Rn	r ≥ 0.9990		
DNA Concentration Dis.	1.5 times (distinguish the difference		
Reaction Volume	15ul - 100ul		
Dyes and probes	CH1: FAM, SYBR CH2: VIC, H CH5: QUASAR705 CH6: ATTC		

	Heating Blocks			
	Temp. Control Model	Fast, Standard		
	Temp. Accuracy	±0.1℃		
	Temp. Uniformity	±0.1 ℃		
	Temp. Range	4℃ ~ 99℃		
	Avg. Heating Rate	10℃/s		
	Avg.Cooling Rate	8°C/s		
	Hot Lid	$30^\circ \text{C} \sim 120^\circ \text{C}$ (105°C default, temp		

Working Conditions

PC Operating System	Windows7/8/10/11 etc.
Software	SOP, data output xlsx, csv, txt, cust
Power	600VA
Power Supply	220VAC 50HZ
Dimension (L*W*H)	343*295*157mm
Weight	9kg
Com. Interface	USB

run	6	different	experiments	simutaneously	

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HEX, JOE, TET 0425

CH3: ROX, TEXRAD CH7: Optional

CH4: CY5 CH8: Optional

np. adjustable) automatic hot lid

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