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Hybridization Oven

Molecular Hybridization Oven LF-IA

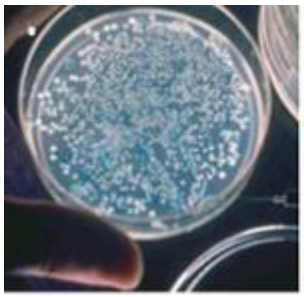
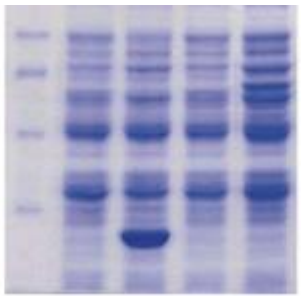
The LF series molecular hybridization oven features a modular design, simple structure, practicality, and reliability. The system utilizes microcomputer control and a touch screen display for input. The tempered glass door is both aesthetically pleasing and provides a wide field of view for operators. The oven operates within a constant temperature range of +8°C to 100°C, with a control accuracy of ±0.5°C, a temperature display resolution of 0.1°C, a temperature equilibration time of less than 20 minutes, and an adjustable rotation speed of 0-30 rpm.

Product Description

The LF series molecular hybridization oven features a modular design, simple structure, practicality, and reliability. The system utilizes microcomputer control and touch-screen display input. The tempered glass door is both aesthetically pleasing and provides a wide field of view for operators. The temperature control system utilizes a fuzzy PID algorithm for automatic calculation and precise temperature control. The hybridization tube rotating rack maintains a stable speed, unaffected by external voltage fluctuations, and the shake function quickly meets user needs for smooth mixing. Centralized control of all functions makes operation simple and practical. Automatic temperature control is provided throughout the entire nucleic acid hybridization process, including baking, prehybridization, hybridization, and washing, making it an effective tool for nucleic acid hybridization research.

How it works

The basic principle of molecular hybridization is to use the combination of the instrument's special temperature control system and vertical rotation system to denature and renature two nucleic acid single-stranded DNA/RNA with homologous sequences under specific temperature and rotation conditions according to the principle of base complementary pairing to form heterogeneous double chains.


Application Literature

[1] Liu Hao, Jing Jie, Yan Fulong. Preparation of gene chips for detection of three common respiratory viruses[J]. Chinese Journal of Pathogenic Biology, 2013.

[2] Guo Huanhuan, Fan Min, Lu Huijun. Preparation of Japanese encephalitis virus typing gene chip[J]. Chinese Journal of Pathogenic Biology, 2011.

model	**LF-IA**	**LF-IIIA**
Constant temperature range	Room temperature +8℃—100℃	Room temperature +8℃—100℃
Temperature control accuracy	±0.5℃	±0.5℃
Temperature display resolution	0.1℃	0.1℃
Temperature equilibrium time	＜20min	＜20min
Rotation speed	0-30Rpm adjustable	0-30Rpm adjustable
Vibration intensity	/	1-10 levels adjustable
Continuous working time	1-1440min (24 hours)	1-1440min (24 hours)
Continuous operation normally open function	Yes (set to 0 for long open)	Yes (set to 0 for long open)
Hybridization tube specifications	Standard: 2 φ35×240mm Optional: Domestic Φ35×150mm and Φ35×300mm	
Shake function	have	have
Storing data	50 groups	50 groups
Interactive interface	4.3-inch true color touch screen	4.3-inch true color touch screen
Power supply voltage	220VAC, 50HZ	220VAC, 50HZ
power	＜800W	＜800W

Adopt fuzzy PID control algorithm, automatic calculation, accurate temperature control

UV Crosslinking

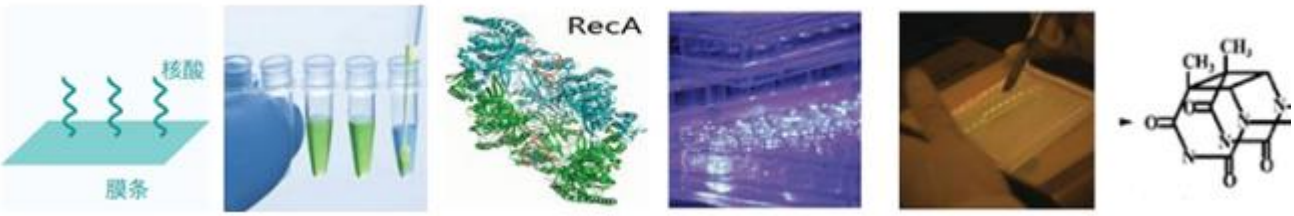
UV crosslinker SCIENTZ03-II

The SCIENTZ03 series UV crosslinker is a versatile 254nm UV radiation system designed for crosslinking and fixing nucleic acids on membranes. This instrument can fix nucleic acids on hybridization membranes in 30-60 seconds, and achieves a 5-10-fold increase in hybridization signal compared to traditional baking methods. It operates at a 254nm wavelength, with optional 365nm and 312nm lamps available upon request. The irradiation time range is 0-999.9 minutes, and the instrument can deliver up to 5mW/cm² of UV radiation energy.

Product Description

The SCIENTZ03 series UV crosslinker is a versatile 254nm UV radiation system primarily used for crosslinking and fixing nucleic acids on membranes. This instrument can fix nucleic acids on hybridization membranes in 30-60 seconds, and the hybridization signal is 5-10 times higher than traditional baking methods. Additionally, this instrument can be used for DNA cleavage in agarose gels, RecA mutation screening, partial restriction enzyme digestion of pyrimidine dimers, and UV sterilization to eliminate PCR contamination.

The UV crosslinker is equipped with a UV energy program (Joules/cm2), where the time integrator continuously monitors the UV light exposure. When the energy absorption value reaches the set value, the UV crosslinker will automatically stop the exposure.



Membrane immobilization of nucleic acids

UV sterilization

Eliminate PCR contamination

DNA cleavage in agarose gels

RECA mutation screening

Obtain thymine dimers

model	SCIENTZ03-II	SCIENTZ03 PRO
UV wavelength	254nm (365nm, 312nm lamps can be equipped according to user needs)	
Irradiation time measurement range	0-999.9min	
UV radiation energy	The maximum energy can reach 5mW/cm²	
	6 8W lamps	
UV light source	50 exposure energies and 50 exposure time settings can be saved	
	Manual setting of UV exposure energy and UV exposure time	
Exposure energy measurement range	0-99.99J/cm²	
Exposure time measurement range	0-999.9min	
External dimensions	560mm*385mm*260mm	
Internal exposure room dimensions	350mm*290mm*150mm	
Blu-ray cutting function	none	Cutting area 180mmx140mm Blue light wavelength 470nm
		The life of blue LED is 60000h. The blue LED irradiation mode is single-sided side illumination.

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