

SCIENTZ-2C Perforator Electric

Patent: 200630105829.4

Electricity transformation can be used to putting the DNA into the state of bacteria, animal and plant cells, yeast cells. Relative chemical method, electric reforming process can obtain higher efficiency. This method is better than other methods to get repetitive more, easy to operate and save time, import of high efficiency and has become an indispensable basic molecular biology technology.

The instrument integration of the whole machine design, simple operation, direct display, microprocessor control pulse discharge adopts the man-machine dialogue interface, the operation is simple, intuitive, and refinement of the capacitor and resistor set range, the cell electroporation experiment under the condition of associated with a wider range of choice.



FEATURES

- Integration of the whole machine, simple operation, direct display
- The microprocessor control of pulse discharge
- The log storage
- Unlimited custom program storage
- Simple operation, short conversion time
- High conversion efficiency
- repeat ability

APPLICATION AREA

- Electricity conversion of bacteria, yeast and other microorganisms
- Mammalian cell transfection
- Plant tissue and the protoplast of transfection
- Cell hybridization, fusion, gene delivery
- Import the marker gene, tags, instructions
- Import the function of the specific gene were studied
- Import drugs and other molecules such as Protel

TECHNICAL PARAMETERS

Model	Scientz-2C	Resistance	50, 100, 150, 1600, -∞total 30 grades
Pulse form	Exponential decay	Operating system	Microcomputer control
High Output voltage	400-2500V	Output waveform	With RC time constant of the exponential decay of wave
Low output voltage	50-450V	Dimension	36.8*31.6*22.9(cm)
High voltage capacitor	1, 5, 6, 25, 30, 31UF	Weight	10.5Kg
Low voltage capacitor	100UF,125UF,150UF...1675UF,one grades of 25UF	Packing size	480*420*280mm

CRY-3B SYNCRETIZE ELECTRIC

CRY-3B Syncretize Electric suitable for cell hybridization and cell fusion and direct observations can be made under inverted microscopes. It has a widespread application in the research on microorganism, animal medicine and bio-engineering. It provides safety, ease of use, and efficiency as compared with the conventional method. All types of even electrode and needle electrode are

FEATURES

- Features: both cell electrofusion and electroporation capabilities
- Flexibility: have a wide range of voltage and pulse time
- Fast and efficient, simple and quickly complete post-processing
- process cell arrangement, fusion, fusion, only a few seconds
- LCD touch display operation
- Data setting easy and quickly



TECHNICAL PARAMETERS

AC Electric Field Parameters	
Bunchy pulse voltage	Peak-peak value 0-58V(0-±29V), adjustable continuously
Bunchy pulse frequency	30KHz-3000KHz adjustable
Gate time	10-1000 μ s, 1 μ s increasing decline, adjustable continuously
DC Field Parameters	
Square wave fusion pulse voltage	5-600V adjustable(electrode distance)1.0mm electric voltage field reach 6000V/cm.
Square wave fusion pulse range	5-5000 - μ s, 1 μ s increasing decline, adjustable continuously
Fusion (square wave) pulse number	1-9 pcs
With fusion flat electrode	Polar distance 0.5mm, optional electrode in the table below
Net weight	9.22Kg
Packing size	450×370×290mm

APPLICATION AREA

- Cell fusion (the fusion process can be observed under inverted microscope)
- Nuclear transfer
- Embryo operation
- Hybridoma generation
- Plant protoplast fusion
- The chicken embryo genes into inside an egg
- Live gene/drug import

Optional Microscope Slide Electrode:

Model	1-0.5	1-1.0	1-2.0	1-3.2
Electrode distance	0.5mm	1.0mm	2mm	3.2mm
Volume	20 μ L	40 μ L	80 μ L	700 μ L
Voltage range	0-600V DC			
Maintenance	Gentle cleanser, ethanol or ethylene oxide sterilization			

HYBRIDIZATION OVEN

TECHNICAL PARAMETERS

Model	LF-I	LF-III	LF-III A
Temperature range	Ambient Temp+5-100°C	Ambient Temp+5-100°C	Ambient Temp+5-100°C
Temperature Accuracy	±0.5°C	±0.5°C	±0.5°C
Temperature error	±0.03°C	±0.03°C	±0.03°C
Display resolution	01°C	01°C	0.1°C
Temperature equilibrium time	<20min	<20min	<20min
Rotation speed	6.5±0.5r/min,Fixed	5-20r/min,Adjustable	6- 25r/min,Adjustable
Continuous working time	24 hour	24 hour	24 hour
Hybrid tube max. number	6 pcs	6 pcs	6 pcs
Shake base bottom	/	YES	YES
Frequency	/	0-33Hz	0-33Hz
Amplitude	/	0-1mm	0-1mm
External dimension	450*90*370mm	450*390*400mm	440*480*430mm
Internal dimensions	340*220*210mm	340*220*220mm	340*220*220mm
Accompany hybrid tube	35*240mm	35*240mm	35*240mm
Optional hybrid tube	35*150mm, 35*300mm	35*150mm, 35*300mm	35*150mm, 35*300mm
Display	/	Digital	LCD
Voltage	/	Digital	LCD
Net weight	21Kg	22Kg	23Kg