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Portable gene gun SJ-500

The SJ-500 portable gene gun features a unique mechanism for generating gas shock waves, producing pressures ranging from 0.5 MPa to 5 MPa. Powered by helium or nitrogen, the SJ-500 generates a "cold" gas shock wave that carries the DNA microprojectiles into the recipient, thus avoiding the cell damage caused by "hot" gas shock waves and achieving high-quality transgenic results. Testing is conducted in situ, in vitro, and in vivo, with a target area as small as 2 cm^2. The operating pressure range is 0.5-5 MPa (12 shots per magazine rotation), and the voltage is 9V (capable of 1000 shots).

model	**SJ-500**
Experimental conditions	In situ, in vitro, in vivo
Target area	(Small) 2cm^2
Working pressure range	0.5-5MPa (12 times per magazine rotation)
Target Type	Animal cells, plant cells, living plant leaves
	Live animal skin, muscles, and organs
Voltage	9V (can launch 1000 times)
Gas source	Helium or nitrogen (helium is more optimized)
metal particles	Φ0.8-1.5μm; Φ1.5-3.0μm
bombardment method	Direct spotting in magazine or preparation in nylon tube

[High-pressure gas gene gun GJ-1000]

The GJ-1000 gene gun is a brand-new gene delivery technology. It accelerates micron-sized, nucleic acid-coated gold or tungsten particles to the desired speed, thereby delivering genes into cells, tissues, and organs. This results in instantaneous, stable, and highly efficient expression and transformation. It is fast, simple, safe, and highly effective. It has a maximum target area of 40 cm^2, an operating pressure range of 3-12 MPa, and metal particles sized from 0.8 to 1.5 μm; the particle size is 1.5 to 3.0 μm. It is suitable for animal, plant, yeast, bacteria, and other microbial cells, and uses helium or nitrogen as the gas source.

model	**GJ-1000**
Target area	Maximum 40cm^2
Working pressure range	3-12MPa
Target Type	Animals: Cell and organ culture
	Plants: smaller whole plants, cultured cells, explants
	Yeast, bacteria, other microbial cells, chloroplasts, mitochondria
Voltage	220v/50hz
Gas source	Helium or nitrogen (helium is more optimized)
metal particles	Φ0.8-1.5μm; Φ1.5-3.0μm

Gene transfer tools

Gene transfer instrument SCIENTZ-2CS

The SCIENTZ-2CS Gene Transfer Instrument consists of the instrument, a gene transfer cuvette, and dedicated cables. It primarily uses electroporation to transfer DNA into competent cells, including animal, plant, and yeast cells. It features an exponentially decaying pulse format, a high-voltage output voltage of 401-3000V, a low-voltage output voltage of 50-400V, and low-voltage capacitors ranging from 50μF, 100μF, 125μF, 150μF, ..., to 1560μF, in 25μF increments.

model	**SCIENTZ-2CS**
Pulse form	Exponential decay
High voltage output voltage	401-3000V
Low output voltage	50-400V
High-voltage capacitors	10μF, 25μF, 35μF, 50μF, 60μF
Low voltage capacitors	50μF, 100μF, 125μF, 150μF...1560μF in 25μF steps
Parallel resistor	50Ω, 100Ω, 150Ω....1650Ω in 50Ω steps
operating system	Microcomputer control
Time constant	With RC time constant, adjustable
Host dimensions	40*30*20cm
Net weight of host	5.5kg
Packing size	58*36*25cm

Gene transfer instrument GP-3000

The GP-3000 Gene Transfer Instrument consists of the instrument, a gene transfer cuvette, and dedicated cables. It primarily utilizes electroporation to transfer DNA into competent cells, including animal, plant, and yeast cells. Compared to other methods, the gene transfer instrument offers advantages such as high reproducibility, high efficiency, ease of use, and quantitative control. It uses exponential decay and square wave pulse formats, high-voltage capacitors ranging from 10-60μF in 1μF steps, low-voltage capacitors ranging from 25μF to 1575μF in 1μF steps, and parallel resistors ranging from 100Ω to 1650Ω in 1Ω steps.

model	**GP-3000**
Pulse form	Exponential decay and square waves
High voltage output voltage	401-3000V
Low output voltage	50-400V
Power supply voltage	100-240VAC 50/60HZ
Number of continuous discharges	1-9
power	100W
Parallel resistor	100Ω-1650Ω, in 1Ω steps (50Ω steps recommended)
Control method	Microcomputer control
Time constant	With RC time constant, adjustable
Low voltage capacitors	25μF-1575μF, in 1μF steps (25μF steps recommended)
High-voltage capacitors	10-60μF, in 1μF steps (10μF, 25μF, 35μF, 50μF, 60μF recommended)
Discharge and interval time	0.1ms-999ms, 0.1ms increments
Net weight of host	4.5kg
Host dimensions	30*20*20cm
Packing size	58*36*25cm

Lab Gene Electrophoresis Instrument

Welcome to buy our quality and cheap lab gene electrophoresis instrument for sale in bulk. As one of the leading Syncretize Electric suppliers in China, we also welcome wholesale orders and customized orders. Now, please be free to check the price list with our factory.

The integrated design of the gene electric importer adopts the microcomputer control system, which is simple in operation and intuitive in display. It adopts exponentially decaying pulse form with RC time constant, which can be combined arbitrarily. The experiment log can be stored for easy searching and calling.

The digital electrophoresis instrument is widely used for cell hybridization, fusion, and gene introduction.

Main Technical Parameters:

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

CRY-3B Laboratory Electric Cell Fusion System

CRY－3B Syncretize Electric suitable for cell hybridization and cell fusionand 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 available.

Performance 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

Applications:

■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

Main 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 um, 1 us 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 - us, 1 us 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

Optional Microscope Slide Electrode:

Model	1—0.5	1—1.0	1—2.0	1—3.2	1-10
Electrode distance	0.5mm	1.0mm	2mm	3.2mm	10mm
Volume	20μL	40μL	80μL	700μL	2200μL
Voltage range	0-600V DC				
Maintenance	Gentle cleanser, ethanol or ethylene oxide sterilization				

There are three methods for inducing cell fusion: biological methods (viruses), chemical methods (polyethylene glycol PEG), physical methods (electrical excitation and laser).

Some viruses such as Sendai virus, parainfluenza virus, and Newtown chicken cockroach virus have fusion proteins that mediate viral fusion with host cells and mediate cell-to-cell fusion. Live such viruses induce cell fusion.

Chemical and physical methods can cause changes in the arrangement of membrane lipid molecules. After removing the action factors, the plasma membrane restores the original ordered structure, and the cells in contact with the cells can be induced to fuse during the recovery process. Cell fusion can be used not only for basic research, but also for important application value. Radish + cabbage, pink blue tobacco + Lang's tobacco, tomato + potato have been successfully cultivated in plant breeding.

Cell fusion technology has achieved groundbreaking research results in the fields of agriculture, industry, and medicine, and its application fields are expanding.

The main applications of animal somatic hybridization techniques are as follows:

For gene mapping and mapping of human genes. The presence or absence of a chromosome or a fragment thereof in a hybrid cell is related to the expression of a trait in a cell, thereby enabling localization of the gene to a chromosome or a segment. on. In 1967, Weise and Green found that in human and mouse fusion cells, human chromosomes were preferentially lost, and it was demonstrated that the use of this feature could locate genes on human chromosomes. In 1970, Ruddle et al. systematically used fusion cells as an experimental system to map human genes.

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