威尼德生物科技（北京）有限公司
V-LEADER BIOTECHNOLOGY(BEIJING)CO.,LTD

Mini Pulser 399 Economic electric perforation instrument

- Description
- Working principle
- Performance and Advantages
- Configuration parameter

Company Profile

V-Leader Biotechnology (Beijing) Co., Ltd. is a technology-based enterprise dedicated to the research and development, production, manufacturing, and sales of life science instruments. The company has complete production, assembly, and inspection conditions, and strictly implements the IS09001 quality management system in the production and management process. At the beginning of its establishment, the company adhered to the manufacturing concept of "technology casting perfect products", actively established joint development relationships with multiple domestic research institutes, and provided intelligent and humanized products for laboratories. With reliable product quality and high-quality services, the company's products are spread throughout the market. We promise to create high-performance intelligent laboratory life science instrument system solutions with professional technical services and continuous technological accumulation, and strive to promote the rapid development of life sciences, adding bricks and tiles to life sciences. To promote the research and development of domestic life science instruments, the company has successively cooperated with well-known universities such as Zhejiang University, Shanghai University of Science and Technology, Wuhan University, Guangxi University, Hebei University of Technology, etc., and has made breakthrough progress. So far, the company has multiple independent intellectual property rights and software copyrights.

The company's current main R&D and production products include dual-wave all-purpose electroporators, exponential decay electroporators, square wave electroporators, ultraviolet crosslinking devices, molecular hybridization devices, in situ hybridization devices, fully automatic dilution spiral inoculators and other life science instruments. Among them, the dual-wave all-purpose electroporator fills the gap in the field of domestic electrotransfection equipment and addresses the "hollowing out" issue of domestic scientific instruments. The company adheres to the business philosophy of "taking quality as the foundation, products as the vehicle, market as the orientation, and customers as the center", aiming to create outstanding products with superior cost performance, perfect and meticulous after-sales service, and creating higher value for customers is our goal! Wineder Company will deeply implement the new development concept, keep innovating, forge ahead with determination, optimize product structure and performance, and enhance service capabilities. We strive to become a life science equipment manufacturer with leading technology, first-class products, and international competitiveness.

Economic electric perforation instrument

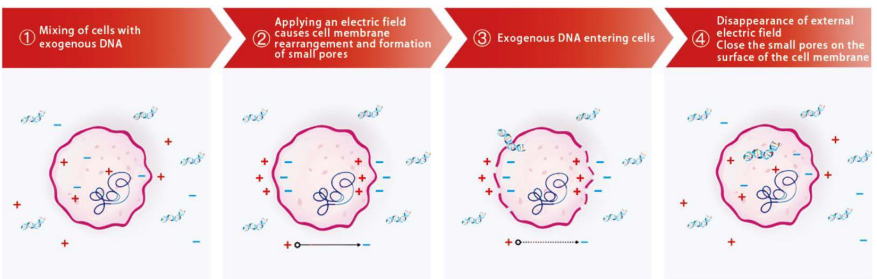
Mini Pulser 399

- High precision pulse transmission
- Real time monitoring of arc protection
- Independent electrotransposition
- Easy to operate, just set the voltage
- Compact and lightweight, high portability
- Preset commonly used bacterial and portability

Product Description

The Gene Pulser399 economical electroporation instrument is an exponential attenuation wave electroporation instrument with a compact design, intuitive operation, simplicity, and flexibility. It is mainly used for bacteria, yeast, and other microorganisms. The conversion efficiency is significantly higher than that of chemical conversion methods. In low voltage mode, Mini Pulser399 can also be applied to some mammalian cell experiments. It is an ideal choice for basic transformation experiments in scientific research and teaching. It features a digital LCD panel design, independent electrical rotation, and can be operated in three steps (startup, voltage setting, pulse) to complete.

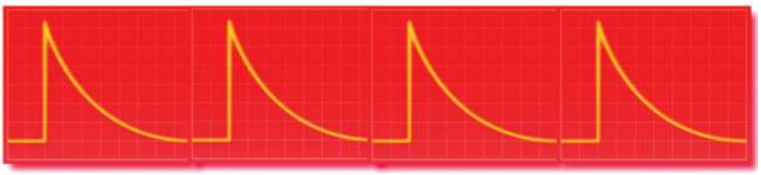
Working Principle



PERFORMANCE AND BENEFITS

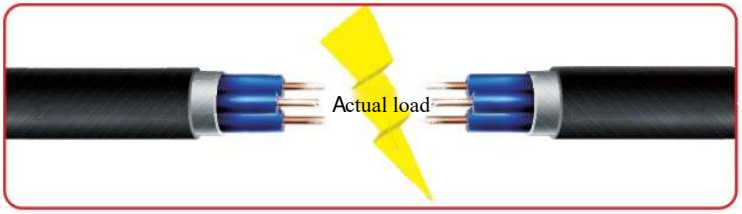
High precision pulse transmission

Ensure repeatability and accuracy of user experiments



Circuit and Arc protection

The unique circuit design prevents the generation of electric sparks, ensures experimental repeatability, and protects the sample. When the pulse or circuit is interrupted, it can safely discharge automatically.

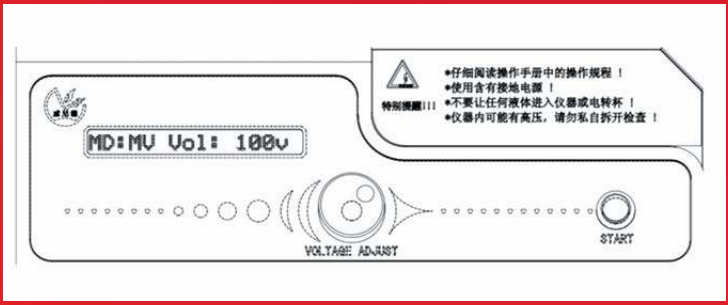


Independent electric swivel design

Easy to operate and move, suitable for sterile operation on ultra clean tables

Easy to operate and compact and lightweight

Independent electrophoresis, which can be completed by operating in three steps (turning on the machine, setting the voltage, and pulse)



Pre-set optimized programs for commonly used bacteria and fungi.

P1	E coli1	Escherichia coli
P2	E coli2	Escherichia coli
P3	E coli3	Escherichia coli
P4	StA	Staphylococcus aureus
P5	Agr	Agrobacterium
P6	Sc1	Saccharomyces cerevisiae
P7	Sc2	Saccharomyces cerevisiae
P8	ShS	Schizosaccharomyces
P9	Cal	Candida albicans
P10	Pic	Pichia pastoris

Configuration parameters

pulse waveform	Exponential wave
Work status	Power on self-test function
Panel interface	Digital user interface, LCD display

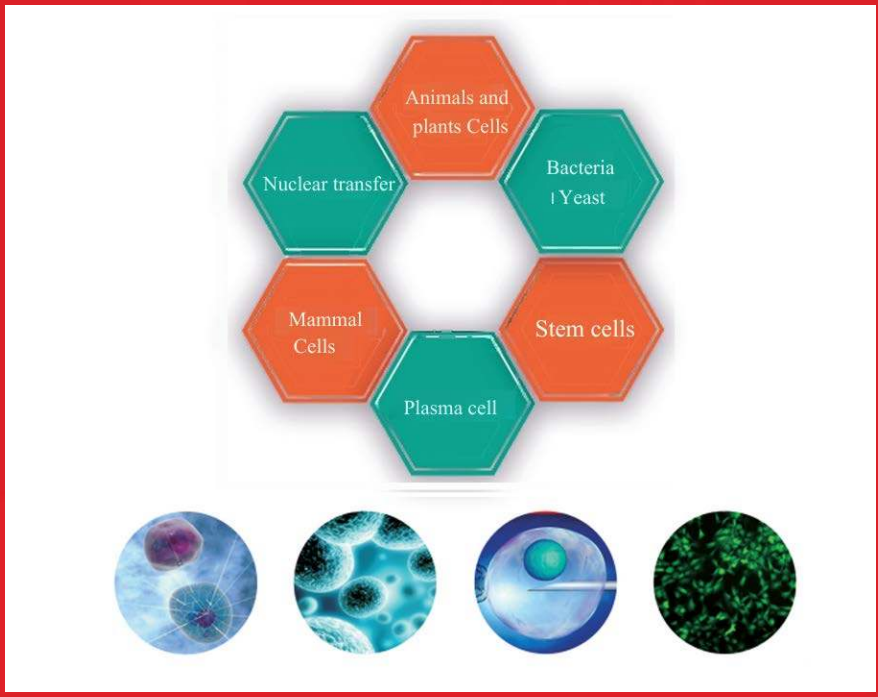
High voltage mode	
Voltage range	5-3000VDC/±2v
capacitance	36uF
Parallel resistor	150Ω
Pulse time constant	5ms (calibration)
time accuracy	0.001--100ms/1us 100-1000ms/10us

Low voltage mode	
Voltage range	2-500VDC/±1v
capacitance	1100 uF
Parallel resistor	150Ω
Pulse time constant	165ms (calibration)
time accuracy	0.001--100ms/1us 100-1000ms/10us
safety performance	Anti short circuit automatic protection function
Arc protection	Real time monitoring of arc protection
Built-in program	10 group
charging time	not more than 5S
size (length * width "height mm)	310*265*183
Weight (Kg)	6.7

Transfection steps

Step1 Eukaryotic suspension cells Step2 Add cells into the electrode cup Step3 Electroporation pulse Step4Analyze gene expression results

Applications



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