

X-Porator F2

Flow Electroporator



About Etta Biotech

Suzhou Etta Biotech Co., Ltd. was founded in 2014 in Suzhou Industrial Park by a team of elite scientists and entrepreneurs from China, Sweden and USA, among them several professors from Peking University. It is the first domestic company in China specializing in the research and development of electroporation technology and its industrialized products, with fully owned intellectual property rights. Etta Biotech, after years of dedicated research and steady development, has gained recognition and support from the market and investors. It currently has over 4000 m² of R&D workshops, GMP manufacturing facility, and cell laboratories.

Etta Biotech has developed 4 electroporator products for applications such as research, transient protein expression, and cell immunotherapy, which have been widely recognized by domestic and international customers. Etta Biotech has established a JV with Mayo Clinic in the US dedicated for non-viral cell therapy application based on Etta's electroporation technologies. The company also has R&D pipelines in the field of vivo delivery devices and consumables for nucleic acid drugs and nucleic acid vaccines, and a fully automated cell manufacture system for cell therapy.

Etta Biotech will continue pursue the values of innovation, professionalism, unity, and dedication, striving to become a leading biotechnology company that creates value for society.

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Product Features

Patented continuous flow electroporation technology
Uniform electroporation when cells flow through continuously, flexible scaling of transfection volume.

Built-in shaking and mixing function
Shaking function at the loading end to prevent cell settling.

Cell process volume of 3-100mL
1.5×10⁷-1.0×10⁸ cells can be electroporated with single treatment.

GMP-compliant consumables
Consumables with three different specifications available.



Adjustable and visible parameters
Electroporation protocols can be seamlessly scaled up from Etta X-Porator H1, and electroporation parameters can be optimized based on cell types and loadings to be delivered.

Special electroporation buffer

Ultimate cost-effective equipment and consumables

High-precision electronic components for more accurate parameters

Specifications

Name	Article Number	Description	Unit
F2 Flow Consumable-15 ml	F20201	F2 flow electroporator & non-cooling consumables, suitable for 15 mL centrifugation tubes.	Set
F2 Flow Consumable-50 ml	F20202	F2 flow electroporator & non-cooling consumables, suitable for 50 mL centrifugation tubes.	Set
F2 Flow Consumable-250 ml	F20203	F2 flow electroporator & non-cooling consumables, suitable for 250 mL centrifugation tubes.	Set
F2 Flow Cooling Consumable-250 mL	F20204	F2 flow electroporator & cooling consumables, suitable for 250 mL centrifugation tubes.	Set
EL Buffer	H10305	Minimum order of 10 bottles, used for CHO-S/293 cell transfection.	Bottle



Main Unit of X-Porator F2



Illustration of X-Porator F2 Consumable kit installation

Application Field

- 1 Antibody drug development: used for large-scale antibody/protein transient expression production, antibody drug screening, clone screening, etc., and providing faster and more cost-effective solutions for antibody drug development and production companies.
- 2 IVD raw material production: used for production of antigen or antibody raw materials for IVD companies, highly time and cost effective.
- 3 Cell immunotherapy research: scale-up transient transfection manufacture of CAR-T, CAR-NK, etc., and standardizing the development process while avoiding all disadvantages of using viral vector transfection.

Complete Electrotransfection Solution

Etta Biotech not only provides electroporation instruments and comprehensively optimized electroporation protocols, but also conducts extensive experimental testing and optimization for different transient cell lines as well as domestic alternative culture systems, providing complete solutions for increasing expression.

Recommended Transient Expression Cell Lines

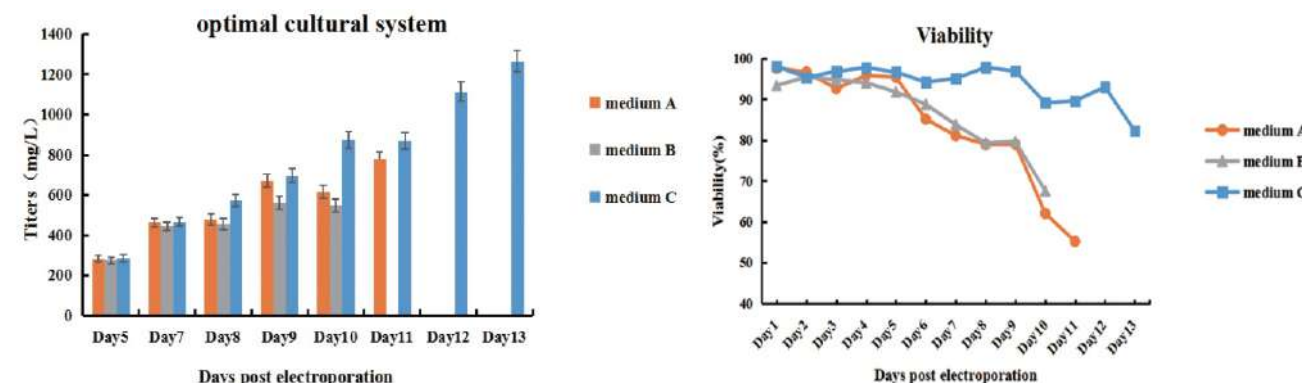
Etta Biotech has tested four commonly used transient cell lines of 293F, Expi293F, CHO-S, and ExpiCHO-S, for transient expression of molecules such as antigens, antibodies (monoclonal, bispecific), fusion proteins, etc. respectively. It was found that ExpiCHO-S cells showed significantly higher expression than the other three cell lines. While Etta X-Porator F2 is suitable for transfection of most cell types, we recommend ExpiCHO-S cell line for its high transient expression.

Simplified Electrotransfection Operation Process



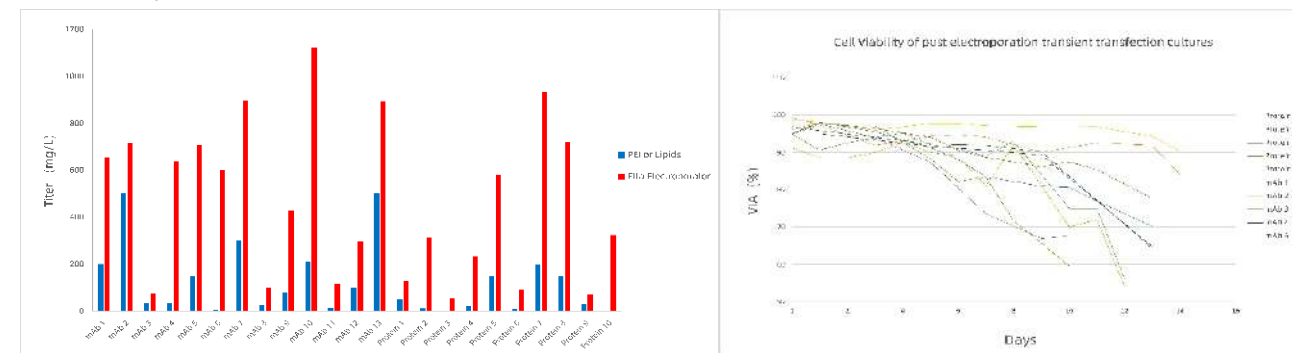
Screened Domestic Cell Culture Medium and Supplements

On top of optimized electroporation parameters, Etta Biotech has tested domestic transient culture systems on the market to select the cell culture medium, cultivation condition, and supplements that best suit Etta electroporation instruments to further significantly increase protein expression. The supplement scheme has also been optimized so that it requires only 2 feedings during the entire culture period, which greatly reduces workload and contamination risks.



Performance Test Data from Customer

Compared with chemical transfection, such as PEI or lipids, Etta X-Porator F2 could normally increase the titer of antibodies or proteins 2-5 times or even more.



Transfection efficiency and cell viability results

