



Miltenyi Biotec

# The CliniMACS® Electroporator

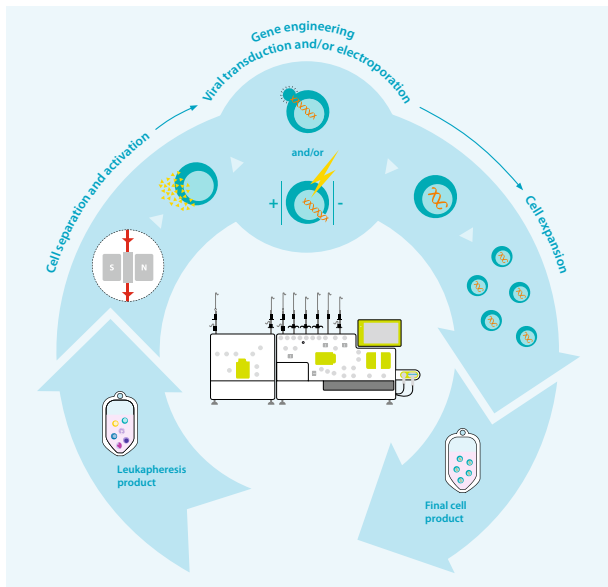
Non-viral gene engineering in a closed system

- **Standardized, automated process:**  
GMP-compliant cell transfection by CliniMACS Prodigy® and CliniMACS Electroporator
- **Closed system:**  
Reduced clean room requirements, increased product and operator safety
- **Flexibility:**  
Fully flexible electroporation parameter input for different cell types
- **Scalability:**  
Easy and cost-efficient parameter optimization and scale-up

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The CliniMACS Prodigy automates cell processing from starting material to final cell product in a single benchtop instrument. The CliniMACS Electroporator now expands the possibilities of cell manipulation with non-viral gene engineering. All major manufacturing steps are automated and standardized in a closed system to enable the production of GMP-compliant cell products.



**Figure 1:** The CliniMACS Prodigy T Cell Engineering workflow is used for the manufacturing of gene-engineered T cells.

- Seamless integration of the transfection step into a cell processing workflow on the CliniMACS Prodigy.
- Closed, single-use tubing sets with integrated electroporation cuvette.
- Fully flexible electroporation parameters; wide range of voltages and pulse modes.
- Cells and nucleic acids stay separated until the electroporation pulse to minimize degradation of nucleic acids.
- Software guides the operator through all interactions.
- Parameter optimization in cost-effective small-scale experiments.



**Figure 2:** The Test Cuvette Adapter for parameter optimization in small-scale.



**Figure 3:** Complex cell manufacturing processes, including electroporation, are performed in the closed system of the CliniMACS Prodigy.

**Profit from automated and closed system cell transfection. The winning combination of the CliniMACS Prodigy and the CliniMACS Electroporator delivers reliable and consistent results for your cell products.**

#### Related Products

<b>CliniMACS Prodigy EP-2</b>	Tubing Set module with integrated electroporation cuvette (2 mm electrode distance) to be connected to a CliniMACS Prodigy Tubing Set
<b>CliniMACS Prodigy EP-4</b>	Tubing Set module with integrated electroporation cuvette (4 mm electrode distance) to be connected to a CliniMACS Prodigy Tubing Set
<b>CliniMACS Electroporation Buffer</b>	Optimized buffer solution for all automated electroporation processes

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ADVISAINS.ID | info@advinsains.id | +62 817-9154-607



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