



Miltenyi Biotec



# The CliniMACS Prodigy<sup>®</sup>

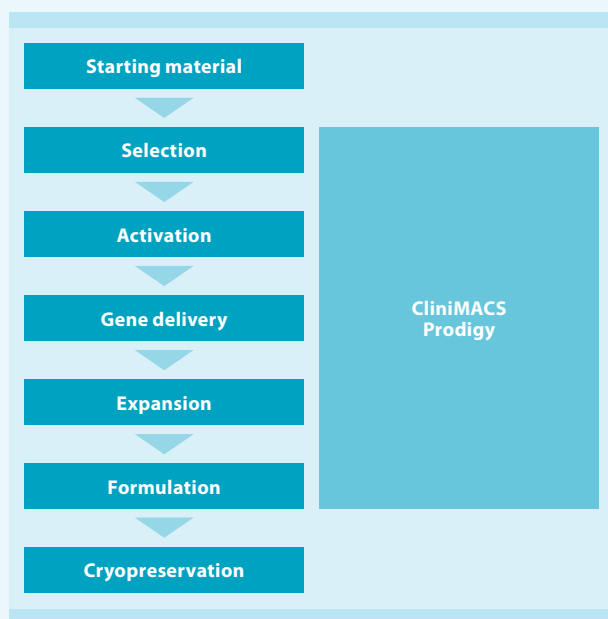
## Mastering the complexity of cell processing

- A single closed system from starting material to final cellular product
- Full automation of complex procedures, including manufacturing of gene-engineered T cells
- Integrated electroporation system for non-viral gene delivery
- Multiple sampling pouches for convenient IPC/QC

► [miltenyibiotec.com](http://miltenyibiotec.com)

The promise of cell and gene therapy is great, but not without its challenges. Complex processes, such as CAR T cell manufacturing, often require multiple steps that are performed across several devices. With the introduction of hands-on manipulations like cell transfer between vessels, the risk of contamination, human error, and cell loss increases.

The CliniMACS Prodigy® automates cell processing from starting material to final cellular product in a single benchtop instrument. All major cell manufacturing steps are automated and standardized for increased reproducibility in a closed system to enable the production of GMP-compliant cell products.



**Figure 1:** The CliniMACS Prodigy TCT Process for the manufacturing of gene-engineered T cells integrates and automates critical steps of the procedure.



**Figure 2:** Critical steps in the cell manufacturing process, including electroporation, are performed in the closed system of the CliniMACS Prodigy.

A variety of cell manufacturing procedures are made possible by the CliniMACS Prodigy, including:

- **Automated generation of CAR T cells**
  - Verified workflow with MACS® GMP Products
  - Enrichment step for the generation of CD4<sup>+</sup>/CD8<sup>+</sup> or CD62L<sup>+</sup> cells
  - Easy sample collection for IPC/QC
- **Ex vivo GMP-compliant antigen loading of DCs**
- **Automated manufacturing of antigen-specific T cells**
- **Custom processes**
  - Density gradient centrifugation
  - Volume reduction
  - Buffer exchange
  - Selection and cultivation of hematopoietic stem cells and induced pluripotent stem cells

The CliniMACS Prodigy also enables the translation of individual cell product manufacturing procedures into automated GMP-compliant processes through Miltenyi Biotec's customized programming service.

**Ask your local Miltenyi Biotec representative for more information or visit [miltenyibiotec.com/prodigy](http://miltenyibiotec.com/prodigy)**



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