Miltenyi Biotec

CytoGenics
life science innovation

The CliniMACS Prodigy®

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

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.

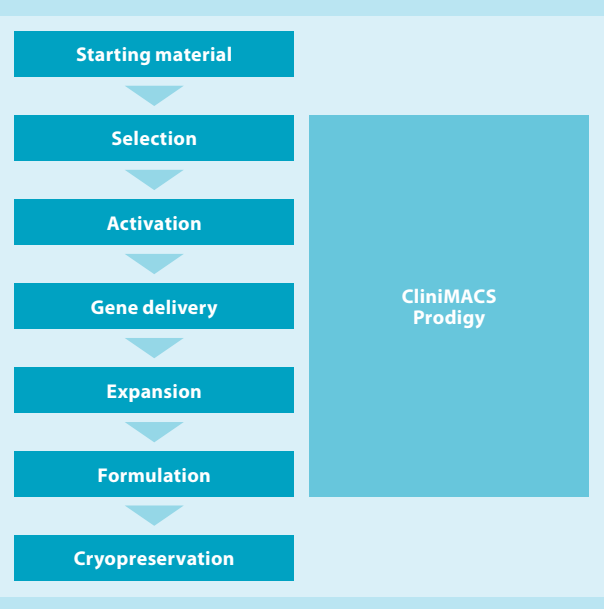

Figure 1: The CliniMACS Prodigy TCT Process for the manufacturing of gene-engineered T cells integrates and automates critical steps of the procedure.

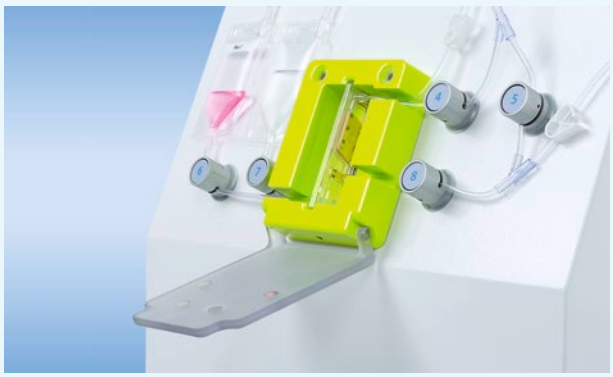

Figure 2: Critical steps in the cell manufacturing process, including electroporation, are performed in the closed system of the CliniMACS Prodigy.

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 $CD4^+/CD8^+$ or $CD62L^+$ 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

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