Miltenyi Biotec

Automate your cell manufacturing process

CliniMACS Prodigy® Custom Application Services

Turn your manual cell therapy manufacturing process into a custom and automated process on the CliniMACS Prodigy Platform. Our experts partner with you to translate and optimize your protocol, making it ready for clinical development and GMP-compliant commercial manufacturing. Flexibility is built in at every step to meet your needs.

- **Tailor-made automation for your complete process**
- **Increased flexibility to meet specific requirements for each cell type**
- **Structured transition to GMP-supportive manufacturing**

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Customization for every step of your workflow

Options for configuration:
Choose fresh or frozen input
Select leukapheresis (mobilized or not), whole blood, buffy coat, bone marrow, cord blood, dissociated tissue, or cultured cells
Sample preparation
Apply density gradient centrifugation
Reduce red blood cells
Wash, concentrate, and/or label cells
Cell separation
Enrich your target cell population
Deplete unwanted cells
Combine depletion and enrichment strategies
Target cells (most requested)
Work with T cells ($CD4^+$, $CD8^+$, $CD62L^+$, Tregs), NK cells, HSCs, or iPSCs
Gene editing
Perform viral transduction
Apply electroporation with flexible parameters
Cell culture
Choose adherent or suspension culture
Exchange media
Wash and harvest cells
Add cytokines and reagents
Activate and expand cells
Integrate external culture vessels
Collect in-process samples
Acquire microscope images
Final product formulation
Define cryopreservation medium
Select number, size, and type of final product bags
Set final cell concentration and volume
Choose between partial or complete harvest, with options for external vessel transfer

Your path from concept to commercialization

A Custom Application (CAP) is a tailored automated program implemented on your CliniMACS Prodigy Instrument that translates your manual workflow into a controlled, reproducible manufacturing process. Each CAP is developed based on your specific requirements and supported by structured workflow design and documentation.

Our modular approach allows you to engage at any development stage and progress toward clinical and commercial manufacturing within a clear and defined framework, balancing flexibility, speed, and cost efficiency. This approach is supported by 400+ custom applications developed worldwide and trusted by leading academic and industry partners.

LEARN MORE

Contact us today to discuss your custom cell therapy manufacturing workflow.

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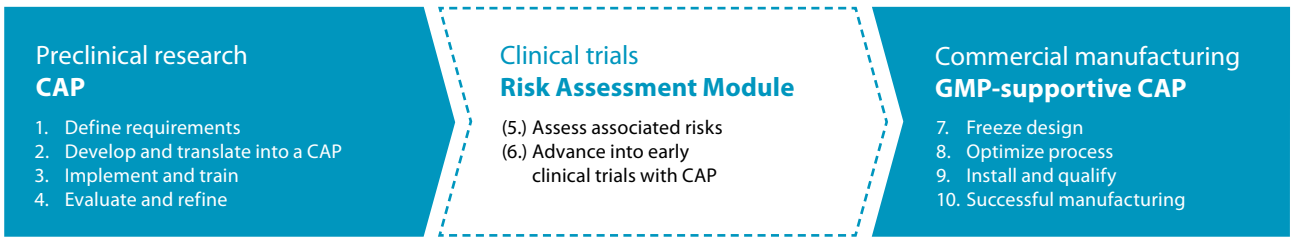


Figure 1: Phase-appropriate CAP offerings toward commercialization. Starting in early preclinical research, CAPs enable the rapid transfer and testing of automated cell therapy manufacturing workflows on the CliniMACS Prodigy Platform. These workflows can progress directly into a GMP-supportive CAP, suitable for clinical and commercial manufacturing, with full documentation and support. If early clinical testing is the goal, the optional Risk Assessment Module helps uncover clinical insights in less time.

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