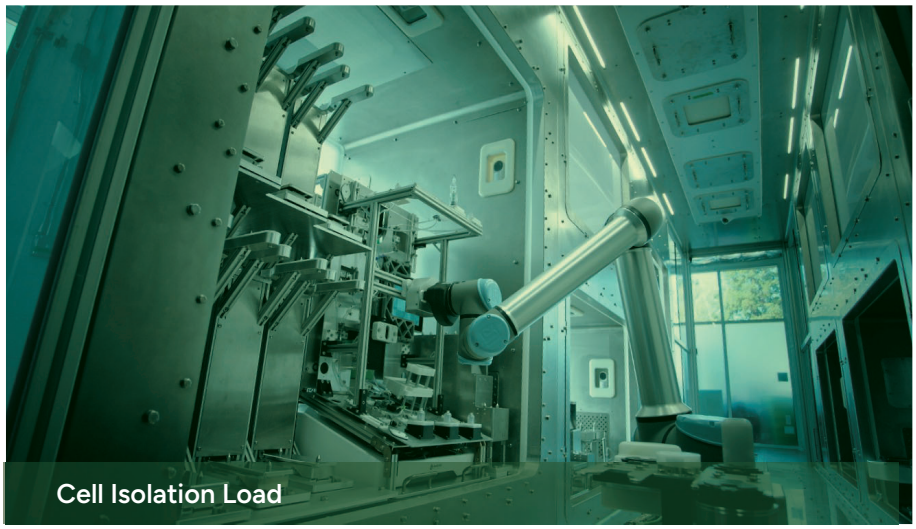
Robotic Automation for Cell Therapy Manufacturing

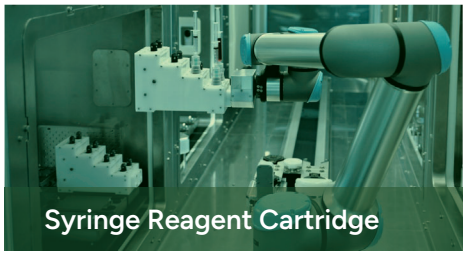
A Strategic Partnership between GenScript and Multiply Labs

GenScript Biotech Corporation and Multiply Labs have partnered to automate the cell isolation phase of cell therapy manufacturing. By combining GenScript's CytoSinct™ 1000 platform with Multiply Labs' automation expertise, the partnership aims to create a fully automated, customizable solution that reduces the complexity and high costs of cell therapy manufacturing.



Cell Isolation Load

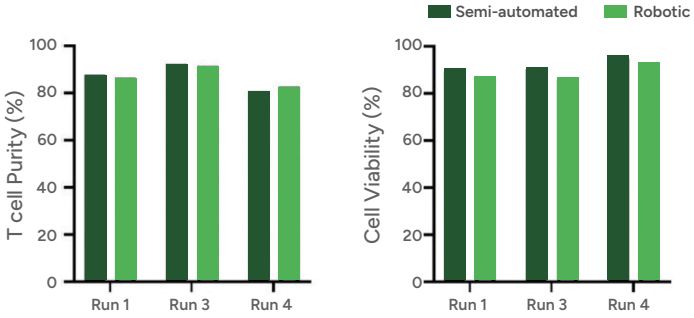
Bag Resuspension



Syringe Reagent Cartridge

This solution aims to mitigate the risk of human error throughout the end-to-end cell therapy manufacturing while simultaneously boosting cell therapy output and increasing access to cell therapy treatments for patients.

Side-by-side comparison of robotic vs. semi-automated cell isolation



In a Stanford and Multiply Labs study, CytoSinct™ 1000 demonstrated comparable T-cell purity and viability across fully-integrated robotic and non-integrated semi-automated cell enrichment and separation processes.

CytoSinct™ Cell Isolation Offerings (GMP)

Instruments	Standards
CytoSinct™ 1000	21 CFR Part 11 and ISO 13485 compliant
CytoSinct™ 1000 Tubing Set	
CytoSinct™ 1000 LS Tubing Set	
CytoSinct™ 1000 Depletion Tubing Set	

Reagents	Standards
CytoSinct™ CD4 Nanobeads, human	USP 1043 compliant
CytoSinct™ CD8 Nanobeads, human	
CytoSinct™ CD3 Nanobeads, human	
CytoSinct™ TCR αβ Nanobeads, human	
CytoSinct™ CD34 Nanobeads, human	
CytoSinct™ CD56 Nanobeads, human	
CytoSinct™ CD14 Nanobeads, human	
CytoSinct™ CD19 Nanobeads, human	

Cell Therapy Comprehensive Product Solutions

Antibody Discovery (for CAR)
- Target Proteins
- Stable Cell Lines

Construct Generation
- Automated Plasmid Purification
- Protein Purification
- One-stop Western Blotting

Construct Validation
- Target Proteins
- Stable Cell Lines
- Primary/Secondary Antibodies

Cell Thawing
- Benz-Nebulase™ Nuclease

Cell Isolation
- CytoSinct™ Cell Isolation Platform (RUO/GMP)

Cell Activation
- Enceed™ T Cell Activation Reagent (RUO/GMP)

Gene Editing
- CAS Nuclease (RUO/GMP)
- LVV/MuLV Titer Kits

Expansion
- Cytokines and Growth Factors (RUO/GMP)

Analysis/QC
- CAR Detection Antibodies
- Impurity Analytical Kits
- Target Proteins and Stable Cell Lines

Learn More

Toll-Free: 1-877-436-7274 Fax: 1-732-210-0262 Email: product@genscript.com

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GenScript Scripting Possibilities