Human Error Optimize Through **Process Variability Automation How to Reduce** As a cell therapy developer, you know there are substantial risks involved Five Key Risks in the fill and finish process, from operator variability to potential TERUMO BLOOD AND CELL TECHNOLOGIES in Fill and **Contamination** contamination. As you scale your operations and ()`{ refine your procedures, Finish mitigating those risks with automation will be critical. In this guide, we've detailed five key challenges, best **Product Inconsistency** practices to address FINIA them, and how the Finia® Fill and Finish System from)5 Terumo Blood and Cell Technologies can **Documentation Inaccuracies** provide an optimal, automated environment. **Contact Us**



Human Error



Best-Practice Solution

Follow predefined, automated protocols.

International Society for Pharmaceutical Engineering (ISPE) recommends: Automate wherever possible to mitigate risk.¹

TERUMO BLOOD AND CELL

FINIA System Performance



¹International Society for Pharmaceutical Engineering (ISPE). Guide: ATMPs — Autologous Cell Therapy. November 2021. Page 31. https://ispe.org/publications/guidance-documents/guide-atmps-autologous-cell-therapy.

Process Variability



Best-Practice Solution

Eliminate operator-tooperator variability with automation versus manual or semi-automated steps.



FINIA System Performance

Active temperature control monitors and maintains final product temperature to within **3 °C (± 3 °C)** of the userdefined target*



Records and maintains accurate volume measurements using an **inbuilt weight check system** with a load sensor that weighs the contents of the mixing bag Ensures accurate and **controlled cryoprotectant addition**, minimizing risk of mishandling, imbalanced ratios, and lengthy exposure of cells to DMSO





Automated mixing

facilitates consistent, reproducible results



Reduces air in the final product bag to **less than 2 mL**

Contamination



Minimize contamination risks by reducing manual handling and related operator errors.





Automatically seals the

final product and QC bags to help maintain sterility

FINIA System Performance

Eliminates open events¹

Uses **gammasterilized,** single-use disposable sets

Product Inconsistency



Limits exposure to DMSO for cell therapies, reducing the risk of damage to cells





Maintains consistent, **accurate aliquoting** within 2 mL across all volumes*



5% Maintains uniformity of cell concentrations to within 5% for all product bags and the QC bag* ...

Documentation Inaccuracies

FINIA System Performance



Use automated documentation systems to capture and record data accurately and consistently.



Automatically logs events, actions, and information in support of a detailed process record



Automatically records target volumes, actual volumes, and procedural alarms and flags

Through automated features, facilitates current Good Manufacturing Practices (cGMP) compliance with electronic data recording and reporting



Connect With Us to Learn More

De-risk your process and produce strong, consistent results with the Finia Fill and Finish System. For more information or to schedule a demo, email our team at **cellprocessing**(**q terumobct.com**. Browse additional resources at **TerumoBCT.com/Finia**.





Finia users must qualify/validate the use of Finia and compliance with GMP within their own manufacturing (or laboratory) environment according to their own standard operating procedures (SOPs)/quality system.

The Finia Fill and Finish System availability is based on regulatory approval in each country.

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