

Larkem™ V40 System

40 Vial Closed Sterile Filling System

Celleo

Intelligent Production Systems for Cell Therapy

Redefining Fill and Finish for the Cell Therapy Era



A step-change in scaling cell therapies

Larkem systems are transforming cell therapy manufacturing, enabling producers to reclaim valuable Class A cleanroom space while accelerating throughput and reducing costs. Designed for closed, aseptic operation in Class C and D environments, Larkem delivers consistent, high-speed performance without compromising sterility.

With rigourously tested and verified precision and fill accuracy, the system ensures dependable results across every run—supporting applications from quality control sampling and cell banking to the final fill of autologous or allogeneic therapies, as well as the preparation of critical reagents.

By simplifying one of the most resource-intensive steps in the manufacturing process, Larkem brings flexibility, speed, and confidence to the point where they matter most.



Precision without compromise

Larkem systems are engineered for performance where it matters most—delivering class-leading fill volume accuracy with variation under 1%. Every vial and bag is filled with consistent precision, verified across extensive testing, ensuring reliable product representation for QC and final product applications. Built to support GMP manufacturing, Larkem's precision safeguards product integrity and compliance at every batch scale.



Freeing cleanroom capacity, amplifying output

Traditional fill-and-finish workflows consume valuable Class A cleanroom resources. Larkem's closed system design removes that constraint—enabling aseptic operation in Class C and D spaces. With automated processes, rapid cycle times, and minimal manual handling, Larkem not only lowers infrastructure burden but boosts throughput and operational efficiency for today's high-demand cell therapy pipelines.



Built for the realities of cell therapy

Whether you're preparing a low-volume QC batch, banking cells for future therapies, or formulating autologous and allogeneic clinical products, Larkem adapts to your process. It supports a wide range of vial and bag formats, integrates with existing GMP protocols, and scales with your needs—offering flexibility without trade-offs. Every feature is designed in response to real-world challenges shared by cell therapy developers around the globe.

Closed-system fill precision, optimized for GMP and throughput

Larkem systems are engineered to solve the technical constraints of formulation and fill at GMP scale—supporting aseptic operation in Class B, C or D space, high-accuracy closed-vial filling (<1% RSD), and automated sealing in under 30 seconds. Built around modular, pre-sterilized single-use sets, each unit operation is streamlined for speed, sterility, and reproducibility. From QC sampling to cell-banking and final fill, Larkem integrates seamlessly into complex bioprocesses without compromising product integrity or compliance.

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Flexible consumables, scalable to meet demand

Larkem systems use dedicated single-use sets (SUS), engineered for closed, sterile performance and rapid setup. Each set is pre-sterilized, integrity-tested, and tray-packaged for intuitive use in GMP environments.

Available in a variety of vial and bag configurations, Larkem consumables support applications including QC sampling, final product fill, cryopreservation, and critical reagent preparation. Sets are ordered separately to align with your specific workflows and volumes—offering unmatched flexibility and scalability.

All consumables are built around standardized vial formats, ensuring seamless integration with your existing processes and downstream handling.

Configured to fit your therapy. Ready when you are.

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