

CytoPak Products

Closed Process Solutions for Cell Therapy
from Preclinical to Commercialization

Cytokines

Media

Beads



Scan the QR to
learn more

Optimizing Closed Process Manufacturing with CytoPak

CytoPak products are designed to support seamless integration into closed-system cell and gene therapy manufacturing. Our single-use, ready-to-use bag formats minimize contamination risk while ensuring consistency and sterility in critical workflow steps. These products offer a reliable, scalable, and regulatory-compliant solution for various stages of therapy development, from preclinical research to commercial production.



CytoPak Benefits of Closed System Solutions

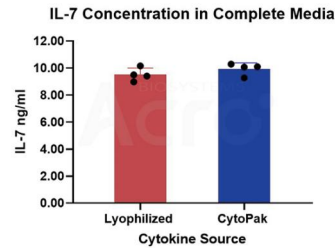
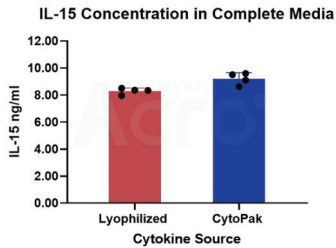
- **Closed-System Compatibility:** Designed for sterility assurance, minimizing contamination risks and ensuring regulatory compliance in cell therapy workflows.
- **Easy to use:** Eliminates the need for repeated bag rinsing, simplifying the workflow and reducing preparation time.
- **Weldable Tubing Convenience:** Facilitates direct integration into existing closed bioreactor systems, such as G-Rex and wave bioreactors, for streamlined operations and reduced contamination risk.
- **Optimized Cytokine Dosing:** Scientifically validated concentrations to enhance cell culture performance and reproducibility, ensuring robust and consistent expansion of T cells.
- **Reduced Manual Handling:** Eliminates reconstitution and aliquoting steps, minimizing hands-on technician time and reducing error risks while improving batch-to-batch consistency.
- **Stable and Ready-to-Use:** Long-term storage at -20°C ensures product integrity, while short-term stability at 2-8°C allows for flexible usage in manufacturing settings.
- **Scalability and Versatility:** Available in multiple volumes and concentrations to accommodate different stages of cell therapy development, from research to large-scale commercial production.

**Cytopak Custom GMP Bags for
Closed-System Workflows**

Scan the QR to
Build Your GMP Bag!

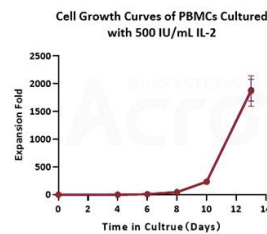
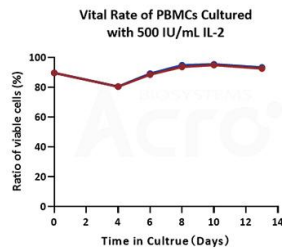


Consistent IL-7 & IL-15 Concentration: CytoPak vs Lyophilized

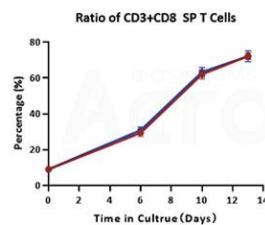
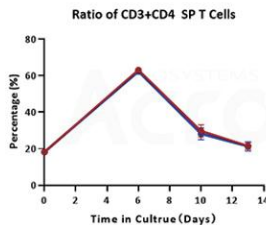
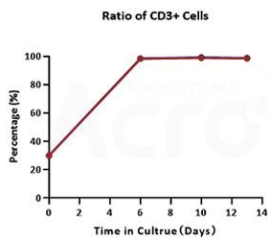


CytoPak GMP Human IL-15/IL-7 Protein (Cat. No. [GMP-L15H13GB01/GMP-L07H24GB01](#)) and lyophilized IL-15/IL-7 (Cat. No. [GMP-L15H13/GMP-L07H24](#)) were added to CelThera™ GMP T Cell Expansion Medium in parallel. After cytokine addition, the concentration of IL-15/IL-7 were determined by ELISA. Data is the average of 4 independent experiments with error bars \pm SD.

CytoPak Cytokines Powerfully Support Cell Growth



Human PBMCs were cultured with Human IL-2 Protein (ACROBiosystems) with T Cell Expansion Medium for two weeks. No significant differences were observed in cell viability or proliferation between Lyophilized (Cat. No. [GMP-L02H14](#)) and CytoPak IL-2 (Cat. No. [GMP-L02H14GB01](#)). Data is the average of 3 independent experiments, error bars \pm SD.



Human PBMCs were cultured with Human IL-2 Protein (ACROBiosystems) with T Cell Expansion Medium for two weeks. No significant differences were observed in the ratio of CD3+ or CD3+ CD4/CD8 positive cells between Lyophilized (Cat. No. [GMP-L02H14](#)) and CytoPak IL-2 (Cat. No. [GMP-L02H14GB01](#)). Data is the average of 3 independent experiments, error bars \pm SD.

Hot CytoPak Products

Catalog No.	Product	Host	Size	Grade
GMP-L02H14GB01	CytoPak GMP Human IL-2 Protein	<i>E. coli</i>	15×10 ⁶ IU	GMP
GMP-L07H15GB01	CytoPak GMP Human IL-7 Protein (<i>E. coli</i>)	<i>E. coli</i>	10ug	GMP
GMP-L07H15GB02	CytoPak GMP Human IL-7 Protein (<i>E. coli</i>)	<i>E. coli</i>	50ug	GMP
GMP-L07H24GB01	CytoPak GMP Human IL-7 Protein	HEK293	10ug	GMP
GMP-L15H13GB01	CytoPak GMP Human IL-15 Protein	<i>E. coli</i>	10ug	GMP
GMP-L15H13GB02	CytoPak GMP Human IL-15 Protein	<i>E. coli</i>	50ug	GMP
MBS-C038	CytoPak ActiveMax® Human DLL4 μBeads, premium grade (for cells, 5.5μm)	--	25mg	PG