

Bottles (1000 mL) Cat # AK9989-1000

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**Product Description:**

Akron's ImmunoCell® Growth Medium (ICGM) Phenol Red Free is a serum-free, cytokine-free basal medium formulated to support the culture and expansion of human T cells for cell therapy applications. Developed by Akron Bio to provide a flexible foundation for T cell manufacturing across development stages and support use across a broad range of cell immunotherapy workflows.

ICGM has been evaluated for use with peripheral blood mononuclear cells, isolated monocyte cultures, and T cells. The medium has been assessed by multiple partners in cell therapy platforms using T cells isolated from healthy donors, with positive feedback reported. The cytokine-free formulation allows users to define cytokine combinations and concentrations appropriate for their specific therapeutic application and manufacturing process.

ICGM is manufactured in accordance with applicable cGMP guidelines for ancillary materials, including sterile filtration and aseptic filling. Each lot is released following sterility, endotoxin, and mycoplasma testing. The product is supplied as a ready to use liquid in 1L PETG bottles or in 1L polyethylene bag formats with multiple closed connection options, enabling sterile docking into modern closed system cell culture workflows. Each bag is supplied with a protective poly bag over pouch. Custom fill volumes are available upon request.

**Product Features:**

- Antibiotic-free
- Phenol red-free
- Serum-free and animal origin component-free
- Manufactured in compliance with cGMP guidelines for ancillary materials
- Maintains memory T cell phenotypes during culture
- Maintains function when subjected to environmental stresses such as light, elevated temperature, and freeze-thaw cycles

**Release Testing:**

- Appearance (Visual Inspection)
- pH (Potentiometric)
- Osmolality (USP <785>)
- Functional Bioassay (*Ex vivo* Jurkat T cell Expansion)
- Mycoplasma (PCR)
- Endotoxin (USP <85> / EP 2.6.14)
- Sterility (USP <71> / EP 2.6.1)

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### Quality

- Relevant cGMP Guidelines Used in Manufacture, Testing, and Release
- USP <1043>, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products
- ISO 20399:2022, Biotechnology - Ancillary Materials Present During the Production of Cellular Therapeutic Products and Gene Therapy Products

### Stability:

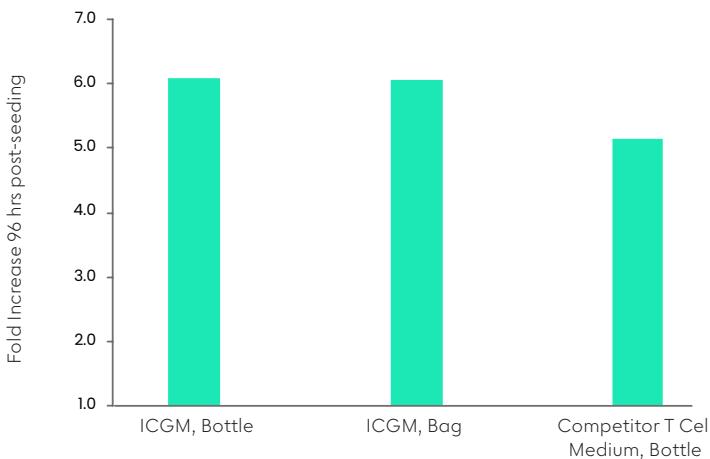
- Store at 2-8 °C
- Transport on cold packs
- 24-month shelf life

### For Use Statement:

For research or further manufacturing use in *ex vivo* cell therapy applications. This product is not intended for direct *in vivo* use or for direct clinical use as a drug, therapeutic, biologic, or medical device.

### Functionality:

#### Jurkat T Cell Proliferation in ICGM Phenol Red Free: Bottle vs Bag Formats



**Comparable Jurkat T cell proliferation in ICGM Phenol Red Free across container formats.** Jurkat T cells were seeded in triplicate at 20,000 cells per well and cultured in ICGM Phenol Red Free from bag and bottle formats, supplemented with IL-2 at a final concentration of 100 Units/mL. Cells were incubated for 96 hours at 37 °C. Cell viability and proliferation were assessed using the CellTiter 96® AQueous One Solution assay (Promega), with absorbance measured at 490nm at seeding (time 0h) and at 96 hours post-seeding. Fold increase in cell population was calculated as the ratio of A490nm @t=96h to A490nm @t=0h. Comparable proliferation was observed between bottle and bag formats, supporting format equivalency and product functionality.

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### Related Products:

Catalog Number	Product Name	Size
AR1045-0010	Recombinant Human Interleukin-2 (rHu IL-2) Closed System Solutions (CSS)™	1 MIU
AR1050-0020	Recombinant Human Interleukin-2 (rHu IL-2) Closed System Solutions (CSS)™	15 MIU
AR1013-0100	Recombinant Human Interleukin-7 (rHu IL-7) Closed System Solutions (CSS)™	100 µg
AR1003-0050	Recombinant Human Interleukin-15 (rHu IL-15) Closed System Solutions (CSS)™	50 µg
AK8223-0100	Recombinant Human Interleukin-2 (rHu IL-2)	100 µg
AK8223-1000	Recombinant Human Interleukin-2 (rHu IL-2)	1 mg
AK9842-0040	Recombinant Human Interleukin-7 (rHu IL-7)	40 µg
AK9823-0040	Recombinant Human Interleukin-15 (rHu IL-15)	40 µg
AK9833-0040	Recombinant Human Interleukin-21 (rHu IL-21)	40 µg
AK9989-1000	ImmunoCell® Growth Medium (ICGM) Phenol Red Free Closed System Solutions (CSS)™	1000 mL
AR1056-0100*	Recombinant Human Interleukin-21 (rHu IL-21) Closed System Solutions (CSS)™	100 µg

\*Coming in 2026

For more information on our available products or for technical assistance, see contact info below.  
 For contract orders under master supply agreement, please inquire.