

## Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP

**Catalog# / Size** 420518 / 50 mL

**Other Names** Cryo Solution, cryopreservation media

**Description** Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP is designed to support the cryopreservation of human stem cells, cells isolated from umbilical cord blood, and PBMCs. Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP is a chemically-defined formulation prepared without human or other animal-derived components. It is suitable for use in the cryopreservation of different human primary blood-derived cell sources, without affecting relevant properties. When used under appropriate conditions, this product can preserve cell viability, expansion, and phenotype of these cell types. This GMP product is suggested for use in research and *ex vivo* cell processing. The benefits of this Cryopreservation solution include:

- Chemically-defined formulation.
- Manufactured in a GMP facility according to USP <1043>.
- Able to maintain important stem cell properties after cryopreservation.

**Quality Statement** BioLegend Cell-Vive™ GMP cell culture products are manufactured and tested in accordance with USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and Ph. Eur. Chapter 5.2.12 in a dedicated GMP facility compliant with ISO 13485:2016. Specifications and processes include

- Low endotoxin level (< 1 EU/mL)
- Mycoplasma and bacterial/fungal growth testing
- Batch-to-batch consistency
- Vendor qualification
- Raw material traceability and documentation
- Documented procedures and employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- QA review of released products
- Quality audits per ISO 13485:2016

### Product Details

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<b>Formulation</b>	Chemically-defined. Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP is a solution ready to use.
<b>Endotoxin Level</b>	< 1EU/mL
<b>Preparation</b>	Chemically-Defined, no preservatives.
<b>Storage &amp; Handling</b>	4°C (2-8 °C)
<b>Application</b>	<a href="#">Cell Culture</a>
<b>Recommended Usage</b>	Freeze 0.5-5 million cells per 1mL of Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP
<b>Application Notes</b>	For cryopreservation, a range between 0.5-5 million cells per 1 mL of Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP is recommended. The liquid product is clear in appearance.

#### Cryopreservation protocol:

1. Prepare a cell suspension following an appropriate protocol.
2. Centrifuge cells at 300 x g for 5 minutes to obtain a pellet. Carefully aspirate supernatant
3. Resuspend pelleted cells with Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP and dispense the cell suspension into a cryovial.
4. Immediately transfer the cryovial into a cell freezing container and store it at -80°C.
5. After 24-36 hours, transfer cryovials into a liquid nitrogen tank for long-term storage.

## Thawing protocol

1. Thaw cryovials containing cells by gently swirling them in a 37°C water bath. Thaw until only a small ice fragment is present.
2. In a biosafety hood, add the thawed cryopreservation solution into 8 mL of preferred cell culture media in a 15 mL conical tube. Wash the vial with 1 mL of cell culture media and add to the conical tube containing cells. Gently mix.
3. Centrifuge and remove the supernatant.

Resuspend the cells at the desired density with cell culture media.

## Disclaimer

BioLegend Cell-Vive™ GMP Cell Culture products are for research use only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

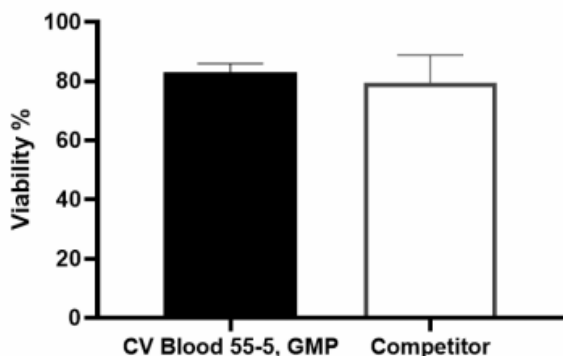
## Antigen Details

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Gene ID NA

## Product Data

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Human PBMCs were isolated and frozen in 1 mL of either BioLegend Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP (cat#: 420518, black bar) or a Competitor's cryopreservation solution (white bar) for a minimum of 3 days. Cells were thawed, washed, and resuspended in PBS prior to calculating viability. Cells were thawed at a density of 5 to 15 million cells per mL. The black bar represents replicates from 5 independent lots of Cell-Vive™ CD Blood 55-5 Cryopreservation Solution, GMP.

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