

# OptiPrep™

Density gradient medium for the isolation of viruses, organelles, macromolecules, or cells

Catalog #07820

250 mL



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## Product Description

OptiPrep™ is a density gradient medium recommended for the isolation and purification of DNA or RNA viruses, organelles such as nuclei, mitochondria, endosomes or exosomes, macromolecules, as well as a wide range of cell types. OptiPrep™ is a non-ionic iodixanol-based medium with a density of  $1.320 \pm 0.001$  g/mL. It has been used clinically in X-ray contrast imaging and has been shown to have lower toxicity compared to ionic gradient compounds such as metrizamide. OptiPrep™ is a sterile, endotoxin-tested solution that is manufactured by a GMP-compliant and ISO 13485-certified company.

- Flexible: Use to form continuous or discontinuous gradients
- Versatile: Customize separation characteristics for isolation of viruses, organelles, macromolecules, or cells
- Gentle: Non-ionic, non-toxic to cells, isoosmotic, and metabolically inert

## Properties

**Storage:** Store at 4 - 30°C.

NOTE: Protect product from light. Prolonged exposure to direct sunlight leads to release of iodine from the iodixanol molecule. This effect is negligible when working with this solution on a daily basis.

**Shelf Life:** Stable until expiry date on OptiPrep™ label.

**Contains:** Iodixanol: 60% (w/v)

**Sterility:** Autoclaved for 15 minutes at 121°C.

**Density:**  $1.320 \pm 0.001$  g/mL

## Directions for Use

Use this product as directed in the protocol of choice. For protocols on the preparation of density gradient solutions and cell gradients and on the isolation of viruses, organelles, macromolecules, and cells of various types, refer to <https://stemcell.com/optiprepcellprotocols>.

## Related Products

For related products, including SepMate™ RUO (Catalog #86450/86415) or SepMate™ IVD\* (Catalog #85450/85415) tubes for facilitated cell isolation using density gradient centrifugation, cell isolation kits, antibodies, and other density gradient media, visit [www.cellseparation.com](http://www.cellseparation.com), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

\* SepMate™ IVD is only available in select regions where it is registered as an In Vitro Diagnostic (IVD) device for the isolation of mononuclear cells (MNCs) from whole blood or bone marrow by density gradient centrifugation. In all other regions, SepMate™ is available for research use only (RUO).

OPTIPREP™ IS MANUFACTURED, PACKED AND RELEASED BY A GMP COMPLIANT AND ISO 13485 CERTIFIED COMPANY.

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