OptiPrep™
The optimum density gradient medium

OptiPrep™ is a sterile and endotoxin tested solution of 60% iodixanol in water with a density of 1.32 g/ml.

Iodixanol was developed as an X-ray contrast medium and has therefore been subjected to rigorous clinical testing.

Iodixanol is non-ionic, non-toxic to cells and metabolically inert.

Iodixanol solutions can be made iso-osmotic at all useful densities.

Iodixanol solutions have low viscosity and osmolality.

The high density of OptiPrep™ facilitates the fractionation of cells by flotation from a dense load zone through either a continuous or discontinuous gradient or through a simple density barrier.

- 51 protocols available for cell isolation.

Improved resolution of cell organelles.

Low viscosity, iso-osmotic gradients provide rapid and efficient separation of the major organelles in preformed gradients.

- 62 protocols available for isolation of subcellular organelles and membranes.

OptiPrep™ is the ideal solution for virus purification.

Virus purified using OptiPrep™ gradients shows infectivity: particle number ratios at least 100x those from CsCl gradients.

- 38 protocols available for virus purification
- 13 protocols available for macromolecules and lipoproteins purification.
OptiPrep™ is a ready-made, sterile and endotoxin tested solution with the following specifications:

- Iodixanol: 60% (w/v)
- Density: 1.320 ± 0.001 g/ml
- Endotoxins: < 1.0 EU/ml

Each batch of OptiPrep™ is checked on the level of endotoxins using a specific LAL test. Our goal is to produce batches with an endotoxin level lower or equal to 0.13 EU/ml.

For every batch produced a Certificate of Analysis showing the actual values of density and endotoxin levels is made available at www.axis-shield-density-gradient-media.com. We also claim sterility according to Ph.Eur.

OptiPrep™ is manufactured, packed and released in compliance with ISO 13485

OptiPrep™ is supplied as a sterile solution in the following package size:

Prod. no. 1114542  1x250ml

- Plasma membrane and domains
- Membrane vesicles and cytosol
- Organelles from non-mammalian sources
- Viruses
- Plasma lipoproteins
- Proteins and protein complexes
- Plasmid DNA
- Ribonucleoproteins

Mammalian and non-mammalian cells

Subcellular organelles

Analysis of membrane trafficking and cell signalling

Analysis of endocytosis and exocytosis