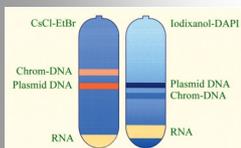


# DENSITY GRADIENT MEDIA

- Mammalian and non-mammalian cells
- Subcellular organelles
- Analysis of membrane trafficking and cell signalling
- Analysis of endocytosis and exocytosis
- Plasma membrane and domains
- Membrane vesicles and cytosol
- Organelles from non-mammalian sources
- Viruses
- Plasma lipoproteins
- Proteins and protein complexes
- Plasmid DNA
- Ribonucleoproteins



## OptiPrep™

### The ideal density gradient medium

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

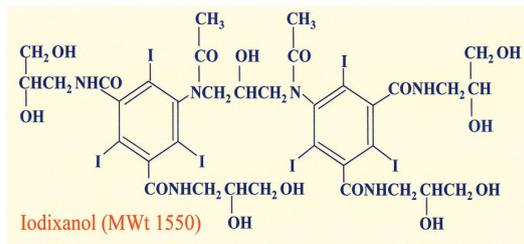
**Iodixanol** was developed as an X-ray contrast medium and has therefore been subjected to rigorous clinical testing.

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

**Iodixanol** solutions can be made isoosmotic at all useful densities.

**Iodixanol** solutions have low viscosity and osmolality.

Actual endotoxin levels in each batch are usually measured at < 0.13 EU/ml.



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.

**55 protocols available for cell isolation.**

Improved resolution of cell organelles.

Low viscosity, isoosmotic 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.

**31 protocols available for virus purification**

**14 protocols available for macromolecules and lipoproteins purification.**

**Web:**

[www.axis-shield-density-gradient-media.com](http://www.axis-shield-density-gradient-media.com)

## AXIS-SHIELD

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N-0504 Oslo  
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Phone: +47 24 05 60 00

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[john@jgrescon.fsbusiness.co.uk](mailto:john@jgrescon.fsbusiness.co.uk)



**OptiPrep™** is a ready-made, sterile and endotoxin tested solution with the following specifications:

Iodixanol: 60% (w/v)

Density:  $1.320 \pm 0.001$  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.

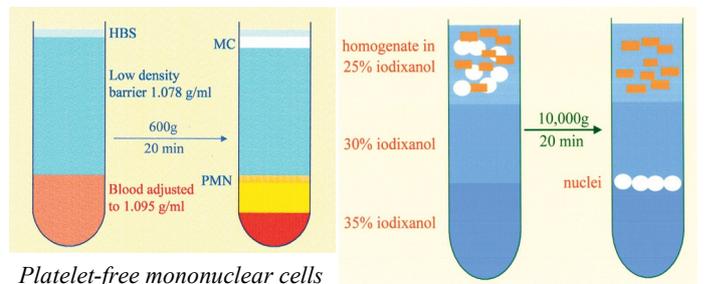
For every batch produced a Certificate of Analysis showing the actual values of density and endotoxin levels is made available at [www.axis-shield-density-gradient-media.com](http://www.axis-shield-density-gradient-media.com). We also claim sterility according to Ph.Eur.

**OptiPrep™** is manufactured, packed and released in compliance with:

1. Current EU Guide to Good Manufacturing Practice
2. Fresenius Kabi AS Quality System
3. Fresenius Kabi AS Manufacturing Licence

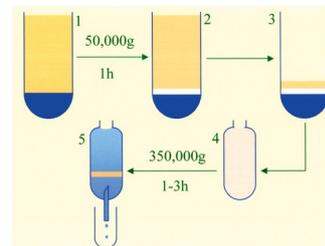
**OptiPrep™** is supplied as a sterile solution in the following package size:

Prod. no. 1114542      1x250ml

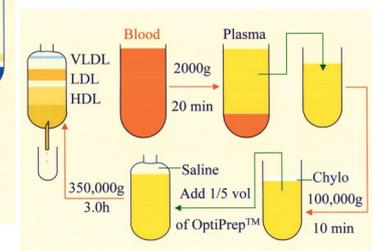


Platelet-free mononuclear cells

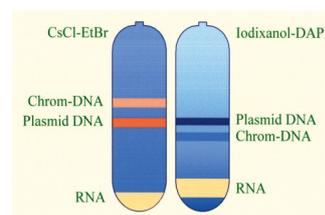
Nuclei purification



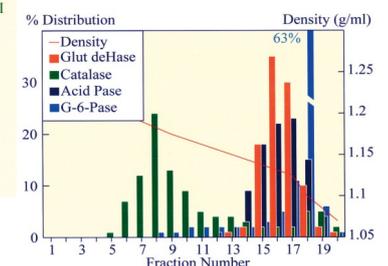
Virus purification



Lipoprotein purification



Plasmid DNA purification



Peroxisome purification

