

## PERCOLL, polyvinylpyrrolidone-coated colloidal silica density centrifugation medium

### Product Description

<b>Catalog #:</b>	543610, 25ml	543611, 100ml	
	543612, 250ml	543614, 1L	(17-0891-02)
<b>Name:</b>	<b>PERCOLL, polyvinylpyrrolidone-coated colloidal silica density centrifugation medium</b>		
	<b>Percoll</b> comprises silica particles coated with polyvinylpyrrolidone (PVP)		
<b>Properties</b>	Physical State	Liquid/Suspension: Colloidal solution of silica coated with polyvinylpyrrolidone (PVP)	
	Density Max.	1.135 g/ml (typical: 1.130 ± 0.005 g/ml)	
	Viscosity Max.	15 cP at 20°C	
	Osmolality: max.	25 mOsm/kg H <sub>2</sub> O	
	Conductivity	<100 mS/m (typical: 1.0 mS/cm)	
	pH:	9.0 ± 0.5 at 20°C (working range: pH 8.5–9.5)	
	Color	Colorless to slightly yellow	
<b>Storage:</b>	4–30°C. The solution is stable for at least 3 years when stored between 4°C and 30°C <sup>1</sup>		

**Percoll** is a well-referenced media for density gradient centrifugation of cells, viruses, and subcellular particles. Percoll is composed of colloidal silica coated with polyvinylpyrrolidone (PVP) and is commonly used in basic research applications:

Used in balanced salt solutions, physiological saline or 0.25 M sucrose.

Used for density gradient centrifugation of cells, viruses and subcellular particles.

Used for formation of gradients either by the use of convenient gradient mixers or by high speed centrifugation.

#### Key features:

- For separation of cells, subcellular particles and larger viruses (down to ~ 70S)
- Operates under gentle conditions which preserve viability and morphological integrity.
- Non-toxic to cells
- Adjustable to physiological ionic strength and pH.
- Gradients can either be preformed or spontaneously generated  
by centrifugation at moderate speeds in an angle-head rotor.
- Gradients are iso-osmotic throughout and cover a range of densities up to 1.3 g/ml.
- Re-sterilizable, even after adjustment to physiological ionic strength.

### Technical information

Percoll consists of silica particles (15 to 30 nm diameter) coated with non-dialyzable polyvinylpyrrolidone (PVP). Free PVP is present at only 1% to 2%. Percoll is non-toxic, almost chemically inert and does not adhere to membranes. Percoll gradients can be formed within the density range of 1.0 to 1.3 g/ml, and are iso-osmotic throughout.

Percoll Plus offers:

- **Low viscosity** resulting in rapid formation of gradients and particle separation at low centrifugal forces. It allows cell preparation on preformed gradients in only a few minutes using at 200 to 1000 × g.
- **Low osmolality:** Percoll can easily be adjusted with physiological saline, cell culture medium, or sucrose to give gradients that are iso-osmotic throughout. It can be buffered within the pH range 5.5 to 10 without change in properties.

Percoll can be stored unopened at room temperature for years. At -20°C, it can only be stored for up to six months. If stored at -20°C, gradients form upon thawing, necessitating a mixing of the bottle before use. Preformed gradients can be stored for weeks without a change in gradient shape, provided that the gradient remains unfrozen. Percoll can be buffered within the pH range 5.5 to 10.0 without any changes in properties. If the pH is dropped below 5.5, gelling may occur. Gelling can also be caused by the presence of divalent cations, an effect which is exacerbated by elevated temperatures. Undiluted Percoll can be re-sterilized by autoclaving for 30 min at 120°C.

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FT-543612

## Other Information

Certificate of Analysis    On inquire

For in vitro R&D use only

Percoll is a registered trademark of GE Healthcare

See also **Percoll Plus** #0A3752 <sup>0</sup>(comprises silane coated silica particles; tested for low levels of endotoxin (< 2 EU/ml). Suitable for the isolation of cells for in vitro clinical research applications)

Related products:

Ficoll #1A3580

Glycerol, Sterile Solution MB Grade(>99.5%) #047623

Accutase #UPN68081, cell (tissues, aggregates) dissociation reagents

Please contact InterBioTech – Interchim for any other information

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