

Human Peripheral Blood CD14⁺ Monocytes

Negatively Selected

Catalog #	Unit Size (cells/vial)
0514-100	10 x 10 ⁶

Product Description

Cryopreserved CD14⁺ Monocytes have been isolated from human peripheral blood (PB) mononuclear cells using immunomagnetic separation techniques. CD14⁺ Monocytes are responsible for phagocytosis of foreign substances in the body and are capable of killing infected host cells via antibody-mediated cellular cytotoxicity.

Sample Collection and Processing

CD14⁺ Monocytes are collected from PB of normal human volunteers using the COBE® Spectra collection system or AutoPBSC® collection protocol. All donors have been tested and determined negative for transmissible infectious diseases with the standard panel of tests (please see Certificate of Analysis).

CD14⁺ Monocytes are enriched by negative selection using an immunomagnetic cell separation method consisting of an antibody cocktail to target and deplete non-CD14⁺ cells.

Purity

Purity of PB CD14⁺ Monocytes is ≥80% as measured by flow cytometric analysis.

Stability and Storage

- Cells are cryopreserved in CryoStor® CS5.
- Cells are stable for long-term storage at -152°C or in the gaseous phase of liquid nitrogen.
- Storage at -80°C is not recommended. Once thawed, the cells must be used immediately and have a finite life span in culture.

Thawing Protocol

The thawing protocol can be found on our website at www.reachbio.com/protocols, by emailing techsupport@reachbio.com or by contacting customer service at 1.206.420.0300.

Warning

Primary cells from human sources are a potential biohazard, treat as potentially infectious. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products. If you require further information, please contact your site safety officer.

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