

## 14-2006: Human Cord Blood CD14+ Monocytes(Discontinued)

**Reactivity :** Human

### Description

**Cell Source:** Umbilical Cord Blood

**Cell Type:** Monocytes

**Donor Attributes:** Maternal Blood HIV-, HepB-, HepC-

**Single or Mixed Donor:** Single

Human CD14+ monocytes originate in the bone marrow and move via the bloodstream to infected or damaged peripheral tissues. Once at the tissue, monocytes differentiate into specific tissue macrophage or dendritic cells. These cells are responsible for phagocytosis of foreign substances in the body and are capable of killing infected host cells via antibody-mediated cellular cytotoxicity.

Human cord blood CD14+ monocytes are positively selected using immunomagnetic anti-CD14 microbeads from cord blood mononuclear cells. Isolated cells are characterized by flow cytometry to ensure a highly pure and viable cell population.

Cord blood is collected from mothers that are negative for HIV, HepB, and HepC during pregnancy. Testing on cord blood can be provided as a custom order.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

### Product Info

<b>Amount :</b>	1 Vial
<b>Purification :</b>	≥90% by Flow Cytometry
<b>Content :</b>	Each cryopreserved vial contains 5 million cells. Preserved in CryoStor <sup>®</sup> , CS10 (10% DMSO)
<b>Storage condition :</b>	Immediately upon receipt, store in liquid nitrogen.

### Application Note

For cryopreserved samples, the freeze-thaw cycle may decrease cell viability by 10-15% post-thaw.

#### LIMITED USE RESTRICTIONS:

**THIS PRODUCT IS SOLELY FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

**By use of this product, user agrees to be bound by the terms of this limited use statement.**

**This product is solely for Internal Research Purposes and not for Commercial Purposes. Commercial Purposes include, but are not limited to (1) use of the cell line in manufacturing; (2) use of the cell line to provide a service, information or data; (3) use of the cell line for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the cell line whether or not such cell lines are resold for use in research.**

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