

SepMate™



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #85450 (SepMate™-50) 100 tubes

Catalog #85460 (SepMate™-50) 500 tubes

Catalog #

Document #10000003739 | Version 01

ENGLISH

Catalog #85420

100 tubes
500 tubes

Intended Use

SepMate™ is used to isolate mononuclear cells (MNCs, comprising lymphocytes and monocytes) from whole blood or bone marrow by density centrifugation.

For in vitro diagnostic use.

Product Description

MNCs are commonly isolated by density centrifugation. With this method, defibrinated or anticoagulant-treated blood is carefully layered on a density gradient medium and centrifuged for a short period of time. Differential migration during centrifugation results in the formation of layers containing different cell types. The bottom layer contains erythrocytes which have been aggregated by the density gradient medium and therefore sediment completely through the density gradient medium. The layer immediately above the erythrocyte layer contains mostly granulocytes, which at the osmotic pressure of the density gradient medium solution attain a density great enough to migrate through the density gradient medium layer. Because of their lower density, the MNCs are found at the interface between the plasma and the density gradient medium with other slowly sedimenting particles (platelets). The MNCs are carefully recovered from the interface and washed.

The specialized insert in SepMate™ minimizes mixing of the sample and the density gradient medium, thereby avoiding the need for careful layering and careful cell removal from the interface. Density gradient medium is pipetted through a central hole in the insert, partially filling the tube. Whole blood is then rapidly pipetted down the side of the tube to rest upon the density gradient medium. After centrifugation for 10 minutes with the brake on, the enriched cell layer is simply poured off into a new tube, while the density gradient medium, erythrocytes, and granulocytes are retained below the insert. The MNCs are washed and are then ready for use.

Storage and Stability

Store at ambient temperature. Product stable at ambient temperature until expiry date on label. Do not use if tubes are damaged.

Warnings and Precautions

1. For professional users only.
2. This product is for in vitro diagnostic use. Not for use with therapeutic applications.
3. Do not re-use SepMate™ tubes.
4. Do not use SepMate™ tubes after the expiry date indicated on the label.
5. SepMate™ is not intended for a specific diagnostic application. Validating SepMate™ for a specific diagnostic application is the responsibility of the end user.
6. This product should be handled by trained personnel observing good laboratory practices. Dispose of tubes and biologic waste in accordance with appropriate local, state, or national biohazard safety regulations.
7. SepMate™ can be used with human whole peripheral blood, cord blood, and bone marrow samples. It is not intended for use with leukapheresis samples, buffy coat samples, or samples older than 48 hours.

 **STEMCELL Technologies Inc | 1618 Station Street, Vancouver, BC | V6A 1B6 | Canada | www.stemcell.com**

Document #10000003787

For Technical Assistance

Tel: +1.604.877.0713

North American Toll-Free Number: 1.800.667.0322

e-mail: techsupport@stemcell.com



Version 03

2020

