



RosetteSep™ HLA Lymphoid Cell Enrichment Kit

REF 15271HLA For 20 tests (10 mL of whole blood per test)

INTENDED USE

RosetteSep™ cell enrichment cocktails are designed for the in vitro enrichment of specific cell subsets from human whole blood.

PRODUCT DESCRIPTION

The RosetteSep™ antibody cocktail crosslinks unwanted cells in human whole blood to multiple red blood cells (RBCs), forming immunorosettes. This increases the density of unwanted (rosetted) cells, such that they pellet along with the free RBCs when centrifuged over a density gradient medium. Desired cells are never labeled with antibody and are easily collected as a highly enriched population at the interface between the plasma and the density gradient medium.

QUALITY CONTROL

RosetteSep™ HLA Lymphoid Cell Enrichment Cocktail **REF** #15271HC.1

RosetteSep™ cell enrichment cocktails are manufactured using aseptic technique and tightly controlled processes.

Each lot of RosetteSep™ cell enrichment cocktail is sterility tested according to USP methods and Quality control performance tested in cell separation assays using human whole blood.

RosetteSep™ DM-L Density Medium **REF** #15705

RosetteSep™ DM-L Density Medium is manufactured using aseptic technique and tightly controlled processes.

Each lot of RosetteSep™ DM-L Density Medium is sterility tested according to USP methods.

STORAGE AND STABILITY

RosetteSep™ HLA Lymphoid Cell Enrichment Cocktail **REF** #15271HC.1

Store at 2 - 8°C. This product may be shipped at 15 - 25°C, but should be refrigerated upon receipt. Do not freeze. Product stable at 2 - 8°C until expiry date as indicated on label.

RosetteSep™ DM-L Density Medium **REF** #15705

Store at 15 - 25°C. Storage at 2 - 8°C is acceptable, but ensure that the medium equilibrates to 15 - 25°C and invert bottle to mix contents before use. Keep protected from direct light. Product stable at 15 - 25°C until expiry date as indicated on label.

WARNINGS AND PRECAUTIONS

- For professional users only.
- This product is for in vitro diagnostic use.
- Do not use cocktail or density medium if vial or bottle contents have leaked. Unused cocktail or density medium may be disposed of according to standard laboratory procedures for non-hazardous liquids.
- These products should be handled by trained personnel observing good laboratory practices. Once these products are added to human cells, treat the suspension as potentially biohazardous. Handling of reagents and disposal of wastes should observe all local, state, or national regulations.
- These products are potential irritants to eyes, respiratory system, and skin. These products may also be harmful if ingested. Avoid exposure through skin, eye contact, inhalation, and ingestion.

COMPONENT DESCRIPTIONS

COMPONENT NAME	COMPONENT #	QUANTITY	FORMAT
RosetteSep™ HLA Lymphoid Cell Enrichment Cocktail	15271HC.1	5 x 2 mL	A combination of monoclonal antibodies in PBS.
RosetteSep™ DM-L Density Medium	15705	2 x 100 mL	A density separation medium with a density of 1.081g/mL.

PBS - phosphate-buffered saline

Precipitate may be observed in the cocktail vial but will not affect performance.

SPECIAL MATERIALS REQUIRED BUT NOT PROVIDED

Recommended Medium

Dulbecco's Phosphate Buffered Saline with 2% Fetal Bovine Serum (Catalog #07905).

HANDLING AND DIRECTIONS FOR USE

Ensure that blood sample, recommended medium (see Special Materials Required but Not Provided), RosetteSep™ DM-L, and centrifuge are all at room temperature (15 - 25°C).

- Aliquot 10 mL of whole blood into a 50 mL tube (e.g. Catalog #38010). If desired, retain a small aliquot of blood (500 µL) for flow cytometric analysis of the start sample.
- Add RosetteSep™ HLA Cocktail at **50 µL/mL** of whole blood (e.g. for 10 mL of whole blood, add 500 µL of cocktail). Mix well.
- Incubate at room temperature (15 - 25°C) for **20 minutes**.
- Dilute sample with an equal volume of recommended medium and mix gently.
- Layer the diluted sample on top of 10 mL of RosetteSep™ DM-L Density Medium.
Be careful to minimize mixing of density medium and sample.
- Centrifuge at 330 x g (see Notes) for **25 minutes** at room temperature (15 - 25°C) with the brake off.
- Remove the enriched cells from the RosetteSep™ DM-L Density Medium : plasma interface.
Note: It is sometimes difficult to see the cells at the interface, especially when very rare cells are enriched. Remove some of the density medium along with the enriched cells in order to ensure optimal recovery.
- Wash enriched cells with recommended medium.
- Use enriched cells as desired. If you wish to evaluate the cell purity by flow cytometry, we recommend lysing both the start and enriched samples with Ammonium Chloride Solution (Catalog #07800) to remove residual RBCs (this can be done as the wash step).

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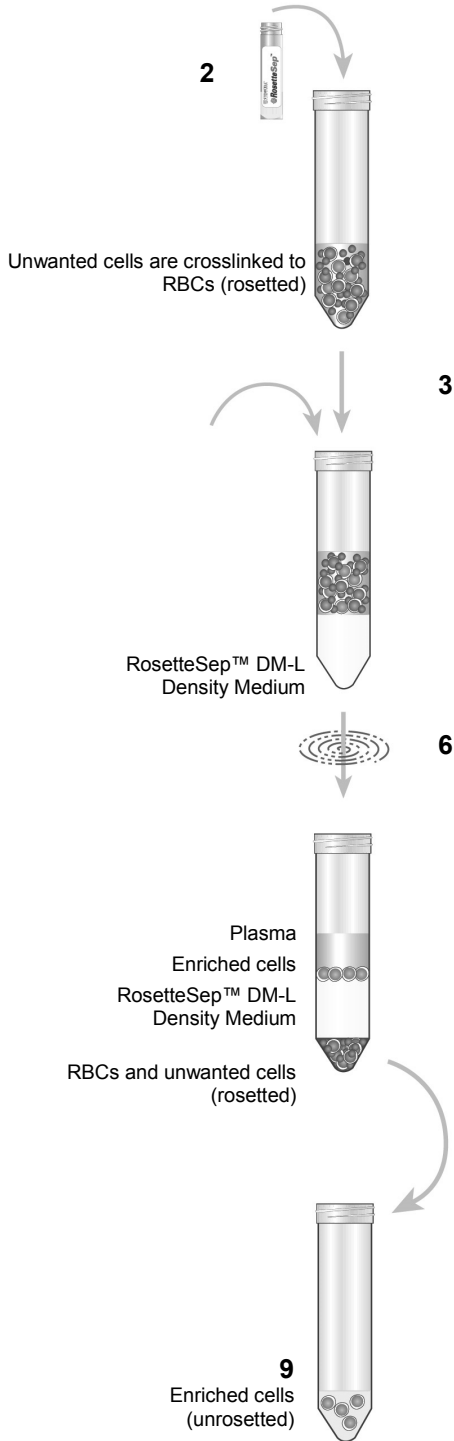
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ROSETTESEP™ PROCEDURE

Numbers refer to steps in Handling and Directions for Use.



NOTES

Density Medium

RosetteSep™ DM-L Density Medium has been formulated to optimize lymphoid cell recovery. Using a different density medium may cause cell loss.

Conversion of g to RPM

To convert g to rpm, use the following formula:

$$RPM = \sqrt{\frac{RCF}{(1.118 \times 10^{-5}) \times (\text{Radius})}}$$

Where: RPM = centrifuge speed in revolutions per minute
RCF = relative centrifugal force (g)
Radius = radius of rotor (cm)

Assessing Purity

To reduce non-specific antibody binding, add normal human serum to all flow cytometry samples (start and enriched) prior to the addition of the antibody stain, at a concentration of 2 µL human serum/100 µL cells.

For purity assessment of lymphoid cells (CD3+) by flow cytometry use the following fluorochrome-conjugated antibody clone:

- Anti-Human CD3 Antibody, Clone UCHT1 (Catalog #60011)

Typical Results

These results are for illustrative purposes only. They were obtained using samples from normal, healthy adults. Results from individual patient samples may vary.

CATALOG #	CELL TYPE ENRICHED	PURITY
15271HLA	Lymphoid Cells (CD3+)	> 85%

TECHNICAL ASSISTANCE

For technical support, contact us by email at techsupport@stemcell.com or call either +1.604.877.0713 or the European toll-free number 00800 7836 2355. For more information, visit www.stemcell.com.

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REF Catalog or reference number	LOT Batch code	 Use by: YYYY-MM
 Caution, consult accompanying documents	IVD In Vitro Diagnostic Medical Device	 For storage within temperature limits
CE CE Mark	 Manufacturer's identification (name & address)	EC REP Authorized EC representative in the European Community

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