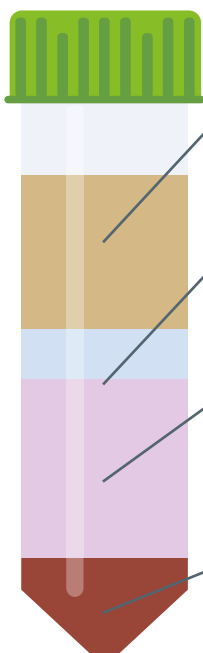




# Lymphocyte Separation Medium

**Clear Phases. Pure PBMCs.**

The isolation of peripheral blood mononuclear cells (PBMCs) is a critical step in immunological studies, cell therapy workflows, and diagnostic cytogenetics. However, inconsistencies in separation protocols or media can compromise yield and cell viability. Capricorn Scientific's Lymphocyte Separation Medium (LSM) offers a ready-to-use solution designed for fast, reproducible isolation of lymphocytes and monocytes from whole blood, buffy coat, or bone marrow.



## KEY BENEFITS OF LSM

### » Efficient phase separation

Optimized density and low viscosity allow clear separation of mononuclear cells from other blood components, minimizing erythrocyte and granulocyte contamination

### » High-purity PBMC isolation

Enriches mononuclear cells (lymphocytes and monocytes) to >90% purity, suitable for downstream analysis, cryopreservation, and *in vitro* cultivation

### » Preserves cell integrity and viability

Endotoxin-free and osmotically balanced to protect sensitive primary cells during centrifugation and further processing

### » Flexible sample sources

Validated for PBMC isolation from whole blood, leukocyte-rich plasma (buffy coats), and bone marrow aspirates

## SIMPLIFY YOUR WORKFLOW. STANDARDIZE YOUR RESULTS.

LSM is formulated for the efficient and gentle isolation of PBMCs using density gradient centrifugation — without the need for specialized equipment or complicated protocols. The optimized density, low viscosity, and gentle formulation enable clear phase separation and excellent cell viability in just a few straightforward steps.

### LSM SIMPLIFIES YOUR WORKFLOW

- » No additional reagents or gradient layering required
- » Compatible with standard laboratory centrifuges and blood collection tubes
- » Validated for fresh whole blood, buffy coats, and bone marrow
- » Consistent results across different donors and lots

With LSM, high-purity PBMC fractions suitable for immediate use, cryopreservation, or short- to mid-term culture can be obtained without compromising on performance or reproducibility. Its ease of use and compatibility with routine lab setups make it an ideal choice for immunology, hematology, and translational workflows.



### ORDER INFORMATION

#### PRODUCT

Lymphocyte Separation Medium

#### VOL. CAT.NO.

|        |       |
|--------|-------|
| 500 ml | LSM-A |
| 100 ml | LSM-B |



SCAN FOR MORE  
INFORMATION

For further support, feel free to contact our experts at [techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com) or phone (+49 6424 944 64 0).

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