

Lymphocyte Separation Medium, Density 1.077 g/ml

General information

The Lymphocyte Separation Medium (LSM) is a separation solution made with Ficoll™ density gradient media. Ficoll™ is a hydrophilic polymer with a molecular weight of 400000 Dalton. It is used for the production of density gradients for the separation of cells and sub-cellular components, which sediment during centrifugation due to gravity.

Product specifications

Storage	Shipped at ambient temperature. Upon receipt store at +2 °C to +8 °C. Note: Lymphocyte Separation Medium is light sensitive. The medium should be protected from light during shipping and storage.
pH	6.7 – 7.4
Viability of Cells	Tested
Cell Separation	Tested
Sterility	Tested

Precautions and disclaimer

For research use only. Not for use in diagnostic procedures.

Protocol for use: Separation of Lymphocytes from Whole Blood

According to the blood volume to be separated, either 15 or 25 ml size centrifuge tubes are filled with either 7 or 10 ml Lymphocyte Separation Medium ($D = 1.077 \text{ g/ml}$, at +20 °C). Heparinized whole blood is then, either undiluted or diluted with equal parts of PBS or culture medium, carefully poured over the lymphocyte separation solution. The separation process is performed by centrifugation at 1200 g for 20 minutes.

The lymphocytes (70 % to 100 % enrichment) concentrate in the interphase (white layer) between the plasma and the separation solution (Fig. 1).

Ordering information

Catalogue number	Pack size
LTSM500	500 ml
LTSM100	100 ml

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