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1. Description

This product is for research use only.

Components	500 mL StemMACS MSC Expansion Medium, human: with L-glutamine with fetal bovine serum (FBS) with phenol red without antibiotics
Specifications	Osmolality: 320–360 mOsmol/kg pH: 7.4–7.8
Quality control	Satisfactory expansion of MSCs derived from human bone marrow.
Storage	Store protected from light at –20 °C. The expiration date is indicated on the label. If StemMACS MSC Expansion Medium is thawed upon arrival, immediately mix thoroughly, aliquot to the preferred sample volume, and store at –20 °C until use.

1.1 Background information

The StemMACS MSC Expansion Medium, human is an optimized and standardized medium for the reproducible and reliable expansion of mesenchymal stem cells (MSCs) from human bone marrow (BM) samples or other tissue sources. As MSCs appear at relatively low frequency in human BM samples and other tissues, their *in vitro* propagation is often necessary in order to obtain sufficient cell numbers for further experiments, such as *in vivo* transplantation studies in animals or *in vitro* differentiation studies including gene expression or protein profiling. StemMACS MSC Expansion Medium efficiently expands cultures of MSCs *in vitro* while maintaining the cells' differentiation potential.

The medium is supplied in a ready-to-use format and is manufactured under strictly controlled conditions using ingredients of the highest quality. StemMACS Expansion Medium offers consistent lot-to-lot performance and optimal conditions for the cultivation of MSCs.

1.2 Applications

- Expansion of MSCs from human bone marrow or other tissue sources.

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