1. Description

1.1 Background information

The StemMACS MSC Expansion Media 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 Media 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 Media 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.

Quality statement

The StemMACS MSC Expansion Media is intended for research use or further manufacturing purposes only. It is not intended for human or animal diagnostic or therapeutic use.

Specifications

- Components: 500 mL StemMACS MSC Expansion Media, human:
  - with L-glutamine
  - with fetal bovine serum (FBS)
  - without antibiotics
- Osmolality: 320–360 mOsmol/kg
- Sterility: Tested for sterility.
- Storage: Store protected from light at –20 °C. The expiration date is indicated on the label.

Sterility

If StemMACS MSC Expansion Media is thawed upon arrival, immediately mix them thoroughly, aliquot to the preferred sample volume, and store at –20 °C until use.

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