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Components	100 mL StemMACS OsteoDiff Media, human: with L-glutamine with fetal bovine serum (FBS) with phenol red without antibiotics
Specifications	pH: 7.4–7.8 Functionality assay: Osteogenic differentiation of mesenchymal stromal cells (MSCs) as determined by detection of alkaline phosphatase activity.
Sterility	Tested for sterility.
Storage	Store protected from light at –20 °C. The expiration date is indicated on the label. 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.

Quality statement

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

1.1 Background information

The StemMACS OsteoDiff Media is an optimized differentiation medium to generate osteoblasts from human MSCs. Most bone diseases result from an imbalance between bone formation and bone resorption. To understand the development and regulation of osteoblasts (osteogenesis) in normal and diseased conditions is important for research into the treatment or prevention of various diseases such as osteoporosis (local or systemic bone loss), developmental disorders such as non-union fractures, and bone inflammation in rheumatoid arthritis. StemMACS OsteoDiff Media is suitable for the differentiation of expanded MSCs, or *in vitro* studies into the processes involved in MSC differentiation to osteoblasts, including gene expression or protein profiling.

1.2 Applications

- Analysis or quality control of differentiation capacity of expanded MSCs.

All protocols and data sheets are available at www.miltenyibiotec.com.

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