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1. Description

This product is for research use only.

Components	100 mL StemMACS ChondroDiff Medium, human: with L-glutamine with fetal bovine serum (FBS) with phenol red without antibiotics
Specifications	pH: 7.4–7.8
Quality control	Functionality assay: Satisfactory chondrogenic differentiation of MSCs as determined by aggrecan-staining.
Storage	Store protected from light at –20 °C. The expiration date is indicated on the label. If StemMACS ChondroDiff 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

StemMACS ChondroDiff Medium, human is an optimized differentiation medium for the generation of chondrocytes from human MSCs. Chondrocytes play a vital role in the development and healing of bone as well as other structural tissues in the body. Therefore, chondrocytes are focus of tissue engineering research into diseases such as osteochondrodysplasias, non-union fractures, and osteoarthritis. The elucidation of the mechanisms of chondrocyte development and regulation (chondrogenesis) remains a crucial focus in such research areas, and the use of optimized culture medium for the efficient and reproducible generation of chondrocytes is requisite. StemMACS ChondroDiff Medium is suitable for the differentiation of expanded MSCs, or *in vitro* studies into the processes involved in MSC differentiation to chondrocytes, including gene expression or protein profiling.

1.2 Applications

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

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