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<b>Components</b>	100 mL StemMACS ChondroDiff Media, human: with L-glutamine with fetal bovine serum (FBS) with phenol red without antibiotics
<b>Specifications</b>	pH: 7.3–7.7 Functionality assay: Chondrogenic differentiation of mesenchymal stromal cells (MSCs) determined by aggrecan staining.
<b>Sterility</b>	Tested for sterility.
<b>Storage</b>	Store protected from light at –20 °C. The expiration date is indicated on the label. If StemMACS AdipoDiff 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 ChondroDiff 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

StemMACS ChondroDiff Media 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 media for the efficient and reproducible generation of chondrocytes is requisite. StemMACS ChondroDiff Media 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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