Contents
1. Description
  1.1 Background information
  1.2 Applications

1. Description

Components

- 100 mL StemMACS ChondroDiff Media, human:
  - with L-glutamine
  - with fetal bovine serum (FBS)
  - with phenol red
  - without antibiotics

Specifications

- pH: 7.3–7.7
- Functionality assay: Chondrogenic differentiation of mesenchymal stromal cells (MSCs) determined by aggrecan staining.

Sterility

Tested for sterility.

Storage

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.

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

Warranty

The products sold hereunder are warranted only to be free from defects in workmanship and material at the time of delivery to the customer. Miltenyi Biotec GmbH makes no warranty or representation, either expressed or implied, with respect to the fitness of a product for a particular purpose. There are no warranties, expressed or implied, which extend beyond the technical specifications of the products. Miltenyi Biotec GmbH’s liability is limited to either replacement of the products or refund of the purchase price. Miltenyi Biotec GmbH is not liable for any property damage, personal injury or economic loss caused by the product.

MACS is a registered trademark of Miltenyi Biotec GmbH.

Unless otherwise specifically indicated, Miltenyi Biotec products and services are for research use only and not for diagnostic or therapeutic use.

Copyright © 2013 Miltenyi Biotec GmbH. All rights reserved.