StemMACS™ AdipoDiff Media
human
Order no. 130-091-677

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1. Description
This product is for research use only.
Components
100 mL StemMACS AdipoDiff Media, human:
- with L-glutamine
- with fetal bovine serum (FBS)
- without antibiotics

Specifications
pH: 7.4–7.8
Functionality assay: Adipogenic differentiation of mesenchymal stromal cells (MSCs) determined by Oil Red O 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 AdipoDiff 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 AdipoDiff Media is an optimized differentiation medium for the generation of adipocytes from human MSCs deriving from various tissue sources. Adipocytes (fat cells) play a critical role in the storage of energy as lipids, in the overall regulation of the body’s metabolism, and as an endocrine organ. They have a profound effect on human physiology and have been identified as a risk factor for metabolic diseases, such as non-insulin dependent diabetes, cancer, arteriosclerosis, obesity, or cardiovascular diseases (e.g. hypertension). Understanding the development and regulation of adipocytes (adipogenesis) is important for research into the treatment or prevention of metabolic or cardiovascular diseases. StemMACS AdipoDiff Media is suitable for the analysis or quantitation of adipogenic differentiation of expanded MSCs, or in vitro studies into the processes involved in MSC differentiation to adipocytes, including gene expression or protein profiling.

1.2 Applications
- Control of differentiation capacity of expanded MSCs.