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1. Description

This product is for research use only.

Components	100 mL StemMACS AdipoDiff 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 adipogenic differentiation of mesenchymal stromal cells (MSCs) determined by Oil Red O staining.
Storage	Store protected from light at –20 °C. The expiration date is indicated on the label. If StemMACS AdipoDiff 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 AdipoDiff Medium, human 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 Medium is suitable for the analysis or quality control of the differentiation capacity 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.

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