



StemXVivo™ Osteogenic/Adipogenic Base Media

Base Media for Human and Mouse MSC Osteogenesis and Adipogenesis

Catalog Number: CCM007

Volume: 250 mL

Product Description

The StemXVivo Osteogenic/Adipogenic Base Media is used for the differentiation of mesenchymal stem cells (MSCs) into osteocytes or adipocytes. All the components, including fetal bovine serum, have been selected and optimized for human and mouse MSC osteogenesis and adipogenesis. This product is supplemented with sodium bicarbonate but does not contain antibiotics.

Intended Use

StemXVivo Osteogenic/Adipogenic Base Media is designed for use with StemXVivo Osteogenic Supplement (R&D Systems, Catalog # CCM008 or CCM009) or StemXVivo Adipogenic Supplement (R&D Systems, Catalog # CCM011) for the desired differentiation application. It may be used with other cytokine/growth factor supplements. The cytokine/growth factor combinations used to differentiate MSCs depend on the experimental design of each researcher.

Note: Cytokines and growth factors can be obtained from R&D Systems (www.RnDSystems.com). For an example using Catalog # CCM007, CCM008, and CCM009 for MSC Osteogenesis, refer to www.RnDSystems.com/go/OstMSCDiffProtocol. For an example using Catalog # CCM007 and CCM011 for MSC Adipogenesis, refer to www.RnDSystems.com/go/AdipoMSCDiffProtocol.

Stability and Storage

Upon receipt, the StemXVivo Osteogenic/Adipogenic Base Media should be stored at $\leq -20^{\circ}\text{C}$ in a manual defrost freezer. The media can be thawed at $2 - 8^{\circ}\text{C}$ or at room temperature. Thawed media can be aliquoted and stored at $\leq -20^{\circ}\text{C}$ in a manual defrost freezer for up to 3 months or used within 1 month when stored in the dark at $2 - 8^{\circ}\text{C}$. Avoid repeated freeze-thaw cycles.

Limitations

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- This reagent should not be used beyond the expiration date indicated on the label.
- Results may vary due to variations among human/mouse MSC progenitor cells derived from different donors.

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R&D Systems, Inc.

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