



Key products for mesenchymal stem cell (MSC) culture

STEMPRO[®] Human Adipose-Derived Stem Cell Kit

Cat. no. R7788-110 (1 kit)



Each kit contains ~1 × 10⁶ human adipose-derived stem cells (ADSCs):

- Isolated from human lipoaspirate tissue (each lot from a single donor), cryopreserved from primary cultures and passaged once after isolation
- Expanded in MesenPRO RS[™] Medium that reduces ADSC doubling times
- Similar in phenotype and functional characteristics to bone marrow-derived mesenchymal stem cells

Culture media and salt solutions

DMEM (low glucose) without L-glutamine and phenol red 11054-020 (500 ml)

HBSS with calcium and magnesium, but no phenol red 24020-117 (500 ml)

HBSS without calcium chloride, magnesium chloride, magnesium sulfate, or phenol red 14175-095 (500 ml)

D-PBS without calcium, magnesium, or phenol red 14190-144 (500 ml)

D-PBS with calcium and magnesium, but no phenol red 14040-133 (500 ml)

Culture reagents

Insulin-Transferrin-Selenium-G Supplement (100X) 41400-045 (10 ml)

HEPES Buffer Solution (1 M) 15630-080 (100 ml)

Gentamicin Reagent Solution (10 mg/ml) 15710-064 (10 ml)

GlutaMAX[™]-I Supplement (stable form of L-glutamine) 35050-061 (100 ml)

MEM Non-essential Amino Acids Solution 10 mM (100X) 11140-050 (100 ml)

Lipofectamine[™] 2000 Transfection Reagent 11668-027 (0.75 ml)

Lipofectamine[™] 2000 CD Transfection Reagent (animal origin-free) 12566-014 (1 ml)

TrypLE[™] Select (1X) (animal origin-free) 12563-011 (100 ml)

Growth factors

FGF-BASIC (full length) REC HU PHG0264 (10 µg)

BMP-2 REC HU PHC7094 (10 µg)

BMP-7 (active) REC HU PHC7204 (10 µg)

TGF-α REC HU PHG0051 (100 µg)

Connective tissue growth factor (CTGF) REC HU PHG0286 (20 µg)

Epidermal growth factor (EGF) REC HU PHG0064 (200 µg)

Transforming growth factor-β1 (TGF-β1) REC HU PHG9204 (5 µg)

Transforming growth factor-β2 (TGF-β2) REC HU PHG9114 (5 µg)

NAT HU FIBRONECTIN PHE0023 (1 mg)

Natural Mouse Laminin 23017-015 (1 mg)

Insulin REC HU 12585-014 (5 ml)

Myelin Basic Protein (MBP) 13228-010 (10 mg)

Antibodies

STRO-1 39-8401	CD73 41-0200	CD90 AHU0052	CD105 MHCD10500
-------------------	-----------------	-----------------	--------------------

CD11b RM2800	CD14 18-0121	CD34 07-3403	CD45 MHCD4500
-----------------	-----------------	-----------------	------------------

Runx2 41-1400	MYF5 42-7400	Brachyury 48-1900	Osteopontin 42-7701
------------------	-----------------	----------------------	------------------------

MesenPRO RS[™] Medium

Cat. no. 12746-012 (1 kit)



MesenPRO RS[™] Medium reduces necessary FBS supplementation to 2%.

- Consistently improves MSC expansion
- Maintains multilineage differentiation capabilities
- Provides gene expression profiles comparable to classical media
- Eliminates time and money spent prequalifying FBS lots

Fetal Bovine Serum, MSC-qualified (USDA)

Cat. no. 12662-029 (500 ml)



We've done the work for you—now you don't have to test multiple fetal bovine serum (FBS) lots.

- Attain enhanced MSC clonal efficiency
- Improve MSC expansion
- Obtain sustainable MSC differentiation

Invitrogen provides more than 1,200 products and services tailored to stem cell research spanning isolation, characterization, expansion, and differentiation. For a complete review of Invitrogen stem cell technologies and services, visit www.invitrogen.com/stemcell.

