Skeletal Muscle Cell Growth Medium

850216

Skeletal Muscle Cell Growth Medium keeps human skeletal myoblasts proliferating and avoids premature fusion, so the cells can be expanded before differentiation. The complete medium contains foetal calf serum, L-glutamine, fetuin, EGF, bFGF, human recombinant insulin and dexamethasone. For fusion into myotubes, switch to Skeletal Muscle Cell Differentiation Medium. We offer the medium as 500 ml basal medium, on its own or together with the supplements, either as individual components or as a premixed Supplement-Mix. The individual components allow single factors to be adjusted or left out, while the Supplement-Mix is added in a single step. Supplements are required for use, and both supplement formats are also available separately. Once supplemented, the complete medium contains 5 % FCS (25 ml per 500 ml of basal medium).

PRODUCT DETAILS

Phenol-red free	No
Serum content	5 % FCS (25 ml FCS per 500 ml basal medium)
Recommended	4,000 cells/cm² (initial seeding up to approx. 90 % confluence)

Storage and stability

Store the basal medium at 2–8 °C, protected from light, and the supplements at −20 °C. Avoid repeated freeze-thaw cycles of the supplements. Once supplemented, the medium can be kept at 2–8 °C, protected from light, for up to one month. Do not freeze the medium.

Specification

pH 7.6, osmolality 285 ± 10 mOsm/kg

Supplement components

L-glutamine: 4 mM
FCS: 5 % (25 ml per 500 ml basal medium)
Human recombinant EGF: 10 ng/ml
Human recombinant bFGF: 1 ng/ml
Human recombinant insulin: 10 µg/ml
Fetuin: 50 µg/ml
Dexamethasone: 0.4 µg/ml
Antibiotics (optional): gentamicin 50 µg/ml, amphotericin B 50 ng/ml

Composition table

Supplement volumes for 500 ml of basal medium. The same components are also available premixed in one bottle (Supplement-Mix, Cat. No. 850166, 38 ml).

Component	Volume	Cat. No.
L-glutamine	10 ml	850121
FCS	25 ml	850108
Human recombinant EGF	1 ml	850115
Human recombinant bFGF	0.5 ml	850138
Human recombinant insulin	0.5 ml	850141
Fetuin	0.5 ml	850132
Dexamethasone	0.5 ml	850133
Antibiotics (optional)	3.5 ml	850119
Total (without antibiotics)	**38 ml**	

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