Osteoblast Growth Medium

850214

Osteoblast Growth Medium is used for the proliferation of human osteoblasts. The basal medium is formulated without calcium and magnesium to limit mineral deposition during expansion. To induce mineralisation, switch to Osteoblast 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 10 % FCS (50 ml per 500 ml of basal medium).

PRODUCT DETAILS

Phenol-red free	No
Serum content	10 % FCS (50 ml FCS per 500 ml basal medium)
Recommended	2,000 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

HEPES: 20 mM
L-glutamine: 4 mM
FCS: 10 % (50 ml per 500 ml basal medium)
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. 850162, 70 ml).

Component	Volume	Cat. No.
L-glutamine	10 ml	850121
FCS	50 ml	850110
HEPES	10 ml	850120
Antibiotics (optional)	3.5 ml	850119
Total (without antibiotics)	**70 ml**	

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB