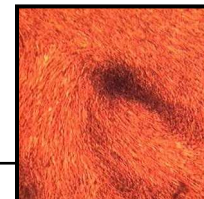


Clonetics™ Normal Human Osteoblast Cell System

NHOst



Introduction

Clonetics™ Osteoblast Cell System contains Normal Human Osteoblasts (NHOst) and optimized medium for their growth. Each system can quickly generate NHOst cultures for experimental applications in bone research, physiology, cellular function and differentiation. Clonetics™ Osteoblast Cell System is convenient and easy to use, allowing the researcher to focus on results. Cryopreserved NHOst are shipped in second or third passage. Proliferating NHOst are shipped in third or fourth passage.

Clonetics™ Cells, Medium and Reagents are quality tested together and guaranteed to give optimum performance as a complete Cell System.

Cell System Components

- One Normal Human Osteoblast Cell Product (Cryopreserved or Proliferating)
- One Normal Human Osteoblast Cell Medium BulletKit™ - 500 ml
Clonetics™ OGM™ BulletKit™ (CC-3207) contains one 500 ml bottle of Osteoblast Basal Medium (OBM™) and OGM™ SingleQuots™ containing the following growth supplements: FBS, 50 ml; Ascorbic Acid, 0.5 ml; GA-1000, 0.5 ml.
- Differentiation SingleQuots™ (CC-4194)
Hydrocortisone 21 Hemisuccinate (CC-4333), 0.5 ml (For alkaline phosphatase up-regulation and bone mineralization). β-Glycerophosphate (CC-4399), 5 ml (1.0 M solution - for bone mineralization)
- One ReagentPack™ (CC-5034) Containing:

Trypsin/EDTA	100 ml
Trypsin Neutralizing Solution	100 ml
HEPES Buffered Saline Solution	100 ml

Characterization of Cells

Routine characterization of NHOst includes immunofluorescent staining. NHOst test positive for alkaline phosphatase and bone mineralization.

Performance

Recommended Seeding Density	5,000 cells/cm ²
Typical time from subculture to confluent monolayer	5 - 9 days
Cumulative population doublings guaranteed using Clonetics™ System	10

Quality Control

All cells are performance assayed and test negative for HIV-1, mycoplasma, Hepatitis-B, Hepatitis-C, bacteria, yeast and fungi. Cell viability, morphology and proliferative capacity are measured after recovery from cryopreservation. Clonetics™ Media are optimized to grow specific types of normal human cells. Certificates of Analysis (COA) for each cell strain are shipped with each order. COA for all other products are available upon request.

Ordering Information

Cryopreserved Cells

CC-2538 NHOst ≥500,000 cells

Proliferating Cells – Flasks and Multiwell Plates

CC-2538T25 T-25 Flask

CC-2538T75 T-75 Flask

CC-2538W96 96-well Plate

Other proliferating formats are available. Contact Scientific Support or refer to the Lonza website for details.

CC-3207	OGM™ BulletKit™, OBM™ plus SingleQuots™ of growth supplements	500 ml
CC-3208	OBM™, Osteoblast Basal Medium	500 ml
CC-4193	OGM™ SingleQuots™, Formulates OBM™ to OGM™	
CC-4194	OGM™ Differentiation SingleQuots™ induce osteoblast differentiation and mineralization	
CC-5034	ReagentPack™	
	Trypsin/EDTA Solution	100 ml
	Trypsin Neutralizing Solution	100 ml
	HEPES Buffered Saline Solution	100 ml

When placing an order or for technical service, please refer to the product numbers and descriptions listed above. For a complete listing of all Clonetics™ Products, refer to the Lonza website or the current Lonza catalog. To obtain a catalog, additional information or technical service you may contact Lonza by web, e-mail, telephone, fax or mail.

Product Warranty

CULTURES HAVE A FINITE LIFESPAN IN VITRO. Lonza guarantees the performance of its cells only if Clonetics™ Media and Reagents are used exclusively, and the recommend protocols are followed. The performance of cells is not guaranteed if any modifications are made to the complete Cell System. Cryopreserved NHOst are assured to be viable and functional when thawed and maintained properly.

THESE PRODUCTS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or in vitro procedures.

WARNING: CLONETICS™ AND POIETICS™ PRODUCTS CONTAIN HUMAN SOURCE MATERIAL, TREAT AS POTENTIALLY INFECTIOUS. Each donor is tested and found non-reactive by an FDA approved method for the presence of HIV-1, Hepatitis B Virus and Hepatitis C Virus. Where donor testing is not possible, cell products are tested for the presence of viral nucleic acid from HIV, Hepatitis B Virus, and Hepatitis C Virus. Testing can not offer complete assurance that HIV-1, Hepatitis B Virus, and Hepatitis C Virus are absent. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products, as recommended in the CDC-NIH Manual, [Biosafety in Microbiological and Biomedical Laboratories](#), 5th Edition. If you