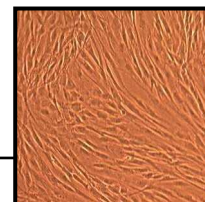


## Clonetics™ Dermal Fibroblast Cell Systems

### NHDF



#### Introduction

Clonetics™ Dermal Fibroblast Cell Systems contain Normal Human Dermal Fibroblasts (NHDF) and optimized media for their growth. Each System can quickly generate NHDF cultures for the study of disorders of human fibroblasts such as fibrosis, scleroderma, fibrosarcoma, xeroderma pigmentosum and histiocytoma. Clonetics™ Dermal Fibroblast Cell Systems are convenient and easy to use, allowing the researcher to focus on results. Cryopreserved NHDF are shipped as frozen primaries. Proliferating NHDF are shipped as secondary cultures.

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

#### Cell System Components (Need to be purchased separately)

- One Dermal Fibroblast Cell Product (Cryopreserved or Proliferating)
- One Fibroblast Cell Medium BulletKit™ - 500 ml  
Clonetics™ FGM™-2 BulletKit™ (CC-3132) contains one 500 ml bottle of Fibroblast Cell Basal Medium and the following growth supplements: hFGF-B, 0.5 ml; Insulin, 0.5 ml; FBS, 10 ml; GA-1000, 0.5 ml.
- 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 NHDF includes morphological observation throughout serial passages.

#### Performance

Recommended seeding density for subculture	3,500 cells/cm <sup>2</sup>
Typical time from subculture to confluent monolayer	6 - 9 days
Additional population doublings guaranteed using Clonetics™ System	15

#### 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 formulated for optimal growth of 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.

# Lonza

## Ordering Information

### Cryopreserved Cells

CC-2511	NHDF-Ad	≥500,000 cells
CC-2509	NHDF-Neo	≥500,000 cells

### Proliferating Cells – Flasks and Multiwell Plates

#### NHDF-Ad

CC-2611	T-25 Flask
CC-0252	T-75 Flask
CC-0160	96-well Plate

#### NHDF-Neo

CC-2609	T-25 Flask
CC-0210	T-75 Flask
CC-0116	96-well Plate

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

CC-3132	FGM™-2 BulletKit™, FBM™ plus SingleQuots™ of Growth Supplements	500 ml
CC-3131	FBM™, Fibroblast Basal Medium	500 ml
CC-4126	FGM™-2 SingleQuots™, Formulates FBM™ to FGM™-2	
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 NHDF 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](#), 5<sup>th</sup> Edition. If you require further information, please contact your site Safety Officer or Scientific Support.