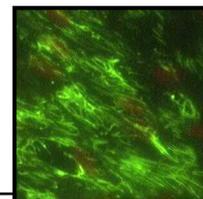


Clonetics™ Renal Mesangial Cell Systems

NHMC



Introduction

Clonetics™ Mesangial Cell Systems contain Normal Human Mesangial Cells (NHMC). Each System can quickly generate NHMC cultures for experimental applications in the study of glomerulonephritis, phagocytosis of immune complexes, cytokine production and prostaglandin synthesis. Clonetics™ Mesangial Cell Systems are convenient and easy to use, allowing the researcher to focus on results. Cryopreserved NHMC are shipped in third passage. Proliferating NHMC are shipped in 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 (Need to be purchased separately)

- One Mesangial Cell Product (Cryopreserved or Proliferating)
- One Mesangial Cell Medium BulletKit™ - 500 ml
Clonetics™ MsGM™ BulletKit™ (CC-3146) contains one 500 ml bottle of Mesangial Cell Basal Medium and the following growth supplements: FBS, 25 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 NHMC includes immunofluorescent staining. Cells stain positive for fibronectin and negative for cytokeratin 19 and von Willebrand (Factor VIII) antigen. Cells are also stained for cytokeratin 18 for informational purposes only.

Performance

Recommended Seeding Density	3,500 cells/cm ²
Typical time from subculture to confluent monolayer	5 - 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. Each lot of medium is tested for the support of cell viability and proliferative capacity. 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-2559	NHMC	≥500,000 cells
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Proliferating Cells – Flasks and Multiwell Plates

CC-2659	T-25 Flask
CC-0273	T-75 Flask
CC-0176	96-well Plate

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

CC-3146	MsGM™, BulletKit™, MsBM™ plus SingleQuots™ of Growth Supplements	500 ml
CC-3147	MsBM™, Mesangial Cell Basal Medium	500 ml
CC-4146	MsGM™ SingleQuots™, Formulates MsBM™ to MsGM™	
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 NHMC 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 require further information, please contact your site Safety Officer or Scientific Support.