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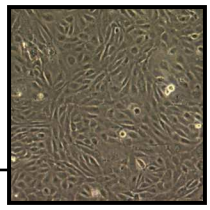
Clonetics™ Umbilical Artery Smooth Muscle Cell Systems

UASMC



Introduction

Clonetics™ Umbilical Artery Smooth Muscle Cell Systems contain Normal Human Umbilical Artery Smooth Muscle Cells (UASMC) and optimized media for their growth. Each System can generate UASMC cultures for experimental applications in vascular pathology, including atherosclerosis and cardiovascular pharmaceutical development. Clonetics™ Umbilical Artery Smooth Muscle Cell Systems are convenient and easy to use, allowing the researcher to focus on results. Cryopreserved UASMC are shipped in third passage. Proliferating UASMC are shipped in fourth or fifth 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 Umbilical Artery Smooth Muscle Cell Product (Cryopreserved or Proliferating)
- One Smooth Muscle Cell Medium BulletKit™ - 500 ml

  Clonetics™ SmGM™-2 BulletKit™ (CC-3182) contains one 500 ml bottle of Smooth Muscle Cell Basal Medium and the following growth supplements: hEGF, 0.5 ml; Insulin, 0.5 ml; hFGF-B, 1 ml; 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 UASMC includes immunofluorescent staining. Cells test positive for smooth muscle α-actin and negative for von Willebrand (Factor VIII) antigen after differentiation.

Performance

Recommended seeding density for subculture	3,500 cells/cm^2
Typical time from subculture to confluent monolayer	6 - 10 days
Additional population doublings guaranteed using Clonetics™ System	15

Quality Control

HIV-1, Hepatitis B and Hepatitis C are not detected for all donors and/or cell lots. All cells are performance assayed and test negative mycoplasma, 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. A Certificates of Analysis (COA) for each lot of cryopreserved cells is shipped with each order. COAs for all other products are available upon request.

Ordering Information

Cryopreserved Cells

CC-2579	UASMC	≥500,000 cells

Proliferating Cells – Flasks and Multiwell Plates

CC-2679	T-25 Flask
CC-0243	T-75 Flask
CC-0192	96-well Plate

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

CC-3182	SmGM™-2 BulletKit™, SmBM™ plus SingleQuots™ of Growth Supplements	500 ml
CC-3181	SmBM™, Smooth Muscle Cell Basal Medium	500 ml
CC-4149	SmGM™-2 SingleQuots™, Formulates SmBM™ to SmGM™-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 UASMC 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-I, 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.