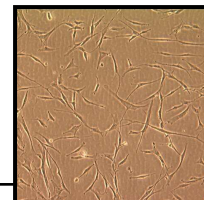


## Clonetics™ pulmonary artery smooth muscle cell systems

### PASMC & D-PASMC



#### Introduction

Clonetics™ pulmonary artery smooth muscle cell systems contain normal human pulmonary artery smooth muscle cells (PASMC) or diseased human pulmonary artery smooth muscle cells from diabetic donors (D-PASMC) and optimized medium for their growth. Each system can generate PASMC or D-PASMC cultures for experimental applications in vascular pathology, including atherosclerosis, and cardiovascular pharmaceutical development. Clonetics™ pulmonary artery smooth muscle cell systems are convenient and easy to use, allowing the researcher to focus on results. Cryopreserved PASMC and D-PASMC are shipped in third passage. Proliferating PASMC and D-PASMC 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

- One pulmonary artery smooth muscle cell product (cryopreserved or proliferating).
- 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, 1ml; 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 PASMC and D-PASMC includes immunofluorescent staining. Cells stain positive for smooth muscle  $\alpha$ -actin and negative for von Willebrand (factor VIII) antigen after differentiation.

#### Performance

Recommended seeding density for subculture	3,500 cells/cm <sup>2</sup>
Typical time from subculture to confluent monolayer	6 - 10 days
PASMC additional population doublings guaranteed using Clonetics™ system	15
D-PASMC additional population doublings guaranteed using Clonetics™ system	Tested through 3 passages for information only

#### 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. COA for all other products are available upon request.

#### Ordering information

##### Cryopreserved Cells

CC-2581	PASMC	≥500,000 cells
CC-2915	D-PASMC diabetic type I	≥500,000 cells
CC-2913	D-PASMC diabetic type II	≥500,000 cells

## Proliferating cells – Flasks and multiwell plates

### PASMC

CC-2681		T-25 flask
CC-0237		T-75 flask
CC-0152		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

**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.

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 PASMC and D-PASMC are assured to be viable and functional when thawed and maintained properly.