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Document # CC-24-5 11/10
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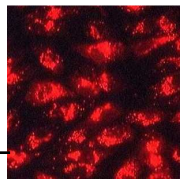

Clonetics™ Bovine Endothelial Cells

Introduction

Lonza now compliments its human primary derived endothelial cells with several bovine endothelial cultures. The tissue origin of the bovine cells are aorta, pulmonary artery and coronary artery.

Aortic endothelial cells can be purchased as single donors, one aorta per lot, or as pooled donors, three to five aortas per lot. Pulmonary artery and coronary artery cells are available only as single donor lots. Bovine aortic and pulmonary artery endothelial cells are isolated and frozen in first passage. The bovine coronary artery endothelial cells are frozen in third passage. Following cryopreservation, cells are quality tested for: viability, seeding efficiency, growth rate, morphology and purity.

Helpful Hints

- A cryopreserved amp should be seeded into multiple T-25 flasks. Optimal performance is observed when cells are initially seeded into smaller flasks.
- Thaw and plate cells quickly. Do NOT centrifuge!
- Incubate cells overnight and change medium within 24 hours to remove residual DMSO.
- Continue to change medium every other day.

Cell System Components

- One Bovine Endothelial Cell Product (Cryopreserved or Proliferating)
- One Endothelial Cell Medium BulletKit™ - 500 ml
  Clonetics™ EGM™-MV BulletKit™ (CC-3125) contains one 500 ml bottle of Endothelial Cell Basal Medium and the following growth supplements: BBE, 2 ml; hEGF, 0.5 ml; Hydrocortisone, 0.5 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 bovine endothelial cells includes positive staining for acetylated LDL uptake and morphological observation from cryopreservation through confluence.

Performance

Recommended seeding density for subculture	2,500 - 5,000 cells/cm^2
Typical time from subculture to confluent monolayer	5 - 9 days

Quality Control

All cells are performance assayed and test negative for bacteria, yeast and fungi. Cell viability and morphology is 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.

Ordering Information

BW-6001	bAEC, Bovine Aortic Endothelial Cells, cryopreserved	≥500,000 cells
AC-6001T25	bAEC, Bovine Aortic Endothelial Cells, proliferating	T-25 Flask
AC-6001T75	bAEC, Bovine Aortic Endothelial Cells, proliferating	T-75 Flask
AC-6001W96	bAEC, Bovine Aortic Endothelial Cells, proliferating	96-well Plate
BW-6002	bAEC, Bovine Aortic Endothelial Cells, pooled, cryopreserved	≥500,000 cells
AC-6002T25	bAEC, Bovine Aortic	T-25

	Endothelial Cells, pooled, proliferating	
AC-6002T75	bAEC, Bovine Aortic Endothelial Cells, pooled, proliferating	T-75 Flask
AC-6002W96	bAEC, Bovine Aortic Endothelial Cells, pooled, proliferating	96-well Plate
BW-6004	bPAEC, Bovine Pulmonary Artery Endothelial Cells, cryopreserved	≥500,000 cells
AC-6004T25	bPAEC, Bovine Pulmonary Artery Endothelial Cells, proliferating	T-25 Flask
AC-6004T75	bPAEC, Bovine Pulmonary Artery Endothelial Cells, proliferating	T-75 Flask
AC-6004W96	bPAEC, Bovine Pulmonary Artery Endothelial Cells, proliferating	96-well Plate
BW-6005	bCAEC, Bovine Coronary Artery Endothelial Cells, cryopreserved	≥500,000 cells
AC-6005T25	bCAEC, Bovine Coronary Artery Endothelial Cells, proliferating	T-25 Flask
AC-6005T75	bCAEC, Bovine Coronary Artery Endothelial Cells, proliferating	T-75 Flask
AC-6005W96	bCAEC, Bovine Coronary Artery Endothelial Cells, proliferating	96-well Plate
CC-3125	EGM™-MV BulletKit™, EBM™ plus SingleQuots™ of Growth Supplements	500 ml
CC-3121	EBM™, Endothelial Basal Medium	500 ml
CC-3129	EBM™-Phenol Red Free, EBM™ w/o Phenol Red	500 ml
CC-4143	EGM™-MV SingleQuots™, Formulates EBM™ to EGM™-MV	
CC-5034	ReagentPack™	
	Trypsin Neutralizing Solution	100 ml
	Trypsin/EDTA 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 warrants its cells only if Clonetics™ Media are used, and the recommended protocols are followed. Cryopreserved bovine endothelial cells 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 vitro diagnostic or clinical procedures.