

AORTIC SMOOTH MUSCLE CELLS

ATCC[®] Normal Human Primary Aortic Smooth Muscle Cells, when grown in Vascular Cell Basal Medium supplemented with Vascular Smooth Muscle Growth Kit components, provides an ideal cell system for propagation in low-serum conditions (5% FBS).

Each lot of ATCC® Normal Human Primary Aortic Smooth Muscle Cells is:

- Cryopreserved in the second passage to ensure the highest viability and plating efficiency.
- Performance tested together with ATCC[®] Primary Cell Solutions[™] media, kit supplements and reagents to guarantee optimum reliability.
- Thoroughly tested for sample purity as part of the ATCC commitment to quality.

Applications for use might include research related to arteriolosclerosis; hypertension; arterial disease; vascular wound healing; apoptosis; tissue remodeling; vascular differentiation; and drug screening/development.

Optimized Growth Medium Makes A Difference

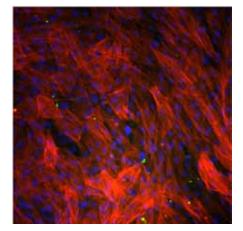
Vascular Cell Basal Medium is a sterile, phenol red-free, liquid tissue culture medium intended for use as one component in a complete ATCC[®] Primary Cell Solutions[™] system. Each complete ATCC[®] Primary Cell Solutions[™] vascular cell system is designed to selectively sustain the proliferation and plating efficiency of cells derived from normal human cardiovascular tissues including smooth muscle cells, as well as large vessel endothelial cells (e.g., from the umbilical vein, aorta) and microvascular endothelial cells.

Primary aortic smooth muscle cells are effectively supported by the cell-specific ATCC[®] Primary Cell Solutions[™] system consisting of Vascular Cell Basal Medium supplemented with the Vascular Smooth Muscle Cell Growth Kit. This unique formulation is designed to produce cultures with:

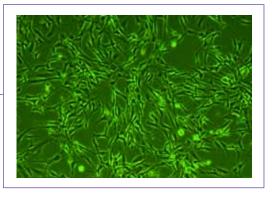
- Functional expression of relevant biomarkers;
- Normal morphology; and
- Superior growth and proliferation.

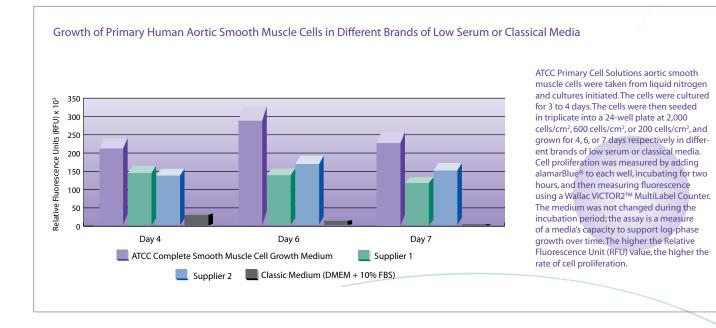
Use of this complete system removes the need for additional components such as feeder layers, extracellular matrix proteins or other substrates.

Expression of Cell-Specific Markers



ATCC Primary Cell Solutions aortic smooth muscle cells were dual stained for von Willebrand factor (as a marker for endothelial cells) and smooth muscle α -actin after differentiation. Red fluorescence indicates the expression of α -actin and green fluorescence points to the expression of von Willebrand factor. The nuclei are blue with Hoeschst stain. The low level of von Willebrand factor expression demonstrates the purity of the aortic smooth muscle cell preparation.





ORDERING INFORMATION

	Primary Cells Media Growth Kits	Reagents		ata (A Perfect 10)
		+ 4	: 	• 10
	Putting all the pieces tog	ETHER ADDS UP TO	YOUR SUC	CCESS.
	Product Name	Components	Price	Catalog No.
1	Primary Aortic Smooth Muscle Cells; Normal, Human	\geq 5 x 10 ⁵ viable cells	s \$599	PCS-100-012
2	Vascular Cell Basal Medium	475 ml	\$49	PCS-100-030
3	Vascular Smooth Muscle Cell Growth Kit	1 kit	\$69	PCS-100-042
4	Phenol Red	1 ml	\$22	PCS-999-001
4	Penicillin-Streptomycin-Amphotericin B Solution	1 ml	\$22	PCS-999-002
4	Trypsin-EDTA for Primary Cells	100 ml	\$24	PCS-999-003
4	Trypsin Neutralizing Solution	100 ml	\$24	PCS-999-004
4	Gentamicin-Amphotericin B Solution	1 ml	\$22	PCS-999-025
	Dulbecco's Phosphate Buffered Saline (D-PBS)	500 ml	\$12	ATCC 30-2200

To achieve the best possible results, we suggest that you order a complete system for each cell type:

Additional cells/cell types will be added in the coming months. Visit us online at **www.atcc.org** to bookmark the primary cell page for easy reference.

SUPERIOR QUALITY. EXPERT SUPPORT. RELIABLE RESULTS.

For more information or to order:

ATCC

800-638-6597
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703-365-2750
sales@atcc.org

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