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Product Description

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Cell Biology

ATCC® Number:	CRL-2018™	Price:	\$379.00
Designations:	SV40LT-SMC Clone HEP-SA		
Depositors:	CF Reilly, R McFall		
Biosafety Level:	2 [Cells contain polyomavirus DNA sequences]		
Shipped:	frozen		
Medium & Serum:	See Propagation		
Growth Properties:	adherent		
Organism:	Rattus norvegicus (rat)		
Morphology:	fibroblast		
Source:	Organ: aorta Strain: Sprague-Dawley Tissue: smooth muscle Cell Type: SV40 transfected		
Cellular Products:	alpha actin; large T antigen		
Permits/Forms:	In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.		
Age:	3 months		

Comments: This is a clone of the SV40LT-SMC cell line derived from primary abdominal aortic tissue from young rats. The parental line was created by immortalizing the primary cells by transfection with SV40 large T antigen. Transfection was done using conditioned medium from psiTEX cells (which produce a helper free replication defective retrovirus that carries the sequences for large T antigen and neomycin (G418) resistance). Clone HEP-SA cells maintain smooth muscle cell characteristics including smooth cell alpha actin expression and growth inhibition by heparin. Large T antigen is detectable in the nuclei.

Propagation: ATCC complete growth medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90% supplemented with 0.2 mg/ml G418, 90%; bovine calf serum, 10%
Temperature: 37.0°C

Subculturing: Protocol: Remove spent medium, add fresh 0.25% trypsin, 0.53 mM EDTA solution, rinse and remove. Allow the cells to sit at 37C (or at room temperature) until the cells detach (usually 5 to 10 minutes. Add fresh medium, aspirate and dispense into new flasks.
Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:6 is recommended

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Medium Renewal: 2 to 3 times per week

Preservation: Freeze medium: Complete growth medium, 95%; DMSO, 5%
Storage temperature: liquid nitrogen vapor temperature

Related Products: Recommended medium (without the additional supplements or serum described under ATCC Medium): [ATCC 30-2002](#)
recommended serum: [ATCC 30-2030](#)

References: 23008: Reilly CF. Rat vascular smooth muscle cells immortalized with SV40 large T antigen possess defined smooth muscle cell characteristics including growth inhibition by heparin. J. Cell. Physiol. 142: 342-351, 1990. PubMed: [2154504](#)

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