

Materials List for:

Isolation of Human Umbilical Arterial Smooth Muscle Cells (HUASMC)

Maximiano P. Ribeiro¹, Ricardo Relvas¹, Samuel Chiquita¹, Ilídio J. Correia¹

¹Centro de Investigação em Ciências da Saúde, Faculdade de Ciências da Saúde, Universidade da Beira Interior

Correspondence to: Ilídio J. Correia at icorreia@ubi.pt

URL: <https://www.jove.com/video/1940>

DOI: [doi:10.3791/1940](https://doi.org/10.3791/1940)

Materials

Name	Company	Catalog Number	Comments
DMEM-F12	Sigma-Aldrich	095K8311	
Fetal bovine serum (FBS)	Biochrom AG	0117T	
RPMI 1640	GIBCO, by Life Technologies	3103806	
Collagen	Sigma-Aldrich	067K2302	
Antibiotic			10 µL/ 1 mL of medium
Scissors			Sterilized
Needle			Diameter of 0.6-1mm
Syringe			10 - 20 mL
Physiological Saline Solution (PSS)			20-40 mL per artery
Collagenase type I	Sigma-Aldrich	047K1052	3 mL per artery
Hank's Buffered Salt Solution(HBSS)			Diluted collagenase
Phosphate buffered saline solution (PBS)			Warmed to 37°C