

Materials List for:

Isolation of Human Umbilical Vein Endothelial Cells and Their Use in the Study of Neutrophil Transmigration Under Flow Conditions

Anutosh Ganguly¹, Hong Zhang¹, Ritu Sharma¹, Sean Parsons¹, Kamala D. Patel¹

¹Department of Physiology and Pharmacology, University of Calgary

Correspondence to: Kamala D. Patel at kpatel@ucalgary.ca

URL: <https://www.jove.com/video/4032>

DOI: [doi:10.3791/4032](https://doi.org/10.3791/4032)

Materials

Name	Company	Catalog Number	Comments
Collagenase Type 1	Worthington	4197	
Cord buffer			Composition: 140 mM NaCl 4 mM KCl 10 mM D-glucose in 1mM NaH ₂ PO ₄ /Na ₂ HPO ₄ buffer at pH 7.4
Endothelial Cell Media (ECM)			M199 with eagle salts supplemented with 16% human serum containing 100 units of penicillin 100 µg of streptomycin and 0.3 mg of L-glutamine/ml
M199	GIBCO	31100-035	
Penicillin Streptomycin Glutamate (100X)	Invitrogen	10378-016	
Ibidi chambers	Ibidi	80606	
TNF-α	Prepro Tech	300-01A	
Human Albumin 20% solution	Gemini Bioproducts	800120050	
HBSS without Ca ²⁺ and Mg ²⁺	Sigma	H2487-10X	
HBSS with Ca ²⁺ and Mg ²⁺	Sigma	H1387-10X	