

Materials List for:

The Multi-organ Chip - A Microfluidic Platform for Long-term Multi-tissue Coculture

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Materials

Name	Company	Catalog Number	Comments
HepaRG cells	Biopredic International		undifferentiated cells
HHStEC	ScienCell Research Laboratories		cells and all culture supplements
HepaRG Medium	Sigma-Aldrich		William's Medium E 10% FCS 100 U/ml penicillin 100 µg/ml streptomycin 5 µg/ml human insulin 2 mM L-glutamine 5 x 10 ⁻⁵ M hydrocortisone hemisuccinate
HDMEC Medium	PromoCell		Endothelial Cell Growth Medium MV2 with Supplement-Pack MV2 and 1% penicillin-streptomycin
Dimethyl sulfoxide	Carl Roth		add 2% to HepaRG media
Trypsin/EDTA	Biowest		
Trypsininhibitor	Carl Roth		
MAXYMum Recovery Tips	Corning		1,000 µl Pipet Tips Wide Bore
384-Well Hanging Drop Plate	3D Biomatrix		Perfecta 3D 384-Well Hanging Drop Plate
Tissue culture flasks	Corning		75 cm ²
Ultra-low attachment plate	Corning		24-well
Transwell cell culture inserts	Corning		96-well unit, 0.4 µm pore size
Deep well plates	Corning		96-well, 1 ml
Biopsy punch	Stusche		4.5 mm
Glass microscope slide	Menzel		footprint of 75 x 25 mm
Polydimethylsiloxane	Dow Corning		Sylgard 184
Silicon rubber additive	Wacker Chemie		Wacker Primer G790
Tubes for air pressure	SMC Pneumatik GmbH		Polyurethan-Schlauch, metrisch
Alumin ELISA	Bethyl Laboratories		Human Albumin ELISA Quantitation Set
Lactate dehydrogenase assay	Stanbio Laboratory		LDH Liqui-UV kit
Alexa Fluor 594 acetylated LDL	Invitrogen		1 mg/ml