

Materials List for:

Real-time Measurement of Epithelial Barrier Permeability in Human Intestinal Organoids

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URL: <https://www.jove.com/video/56960>

DOI: [doi:10.3791/56960](https://doi.org/10.3791/56960)

Materials

Name	Company	Catalog Number	Comments
EGTA 0.5 M sterile (pH 8.0)	Bioworld	405200081	
Cell matrix solution (Matrigel)	Corning	354230	
Deltavision RT live cell imaging system	GE Life Sciences	29065728	http://www.gelifesciences.com/webapp/wcs/stores/servlet/catalog/en/GELifeSciences/brands/deltavision/
Camera	GE Life Sciences	29065728	Included with Deltavision system
softWoRx Imaging software	GE Life Sciences	29065728	Included with Deltavision system
Biosafety cabinet	Labconco	Cell Logic+	http://www.labconco.com/product/purifier-cell-logic-class-ii-type-a2-biosafety-cabinets-2/4262
1X PBS	Life Technologies	10010-023	
Advanced DMEM-F12	Life Technologies	12634-010	Component of ENR media; see McCracken et al. ²⁴
B27 supplement (50X)	Life Technologies	17504044	Component of ENR media; see McCracken et al. ²⁴
L-glutamine (100X)	Life Technologies	25030-081	Component of ENR media; see McCracken et al. ²⁴
HEPES buffer	Life Technologies	15630080	Component of ENR media; see McCracken et al. ²⁴
Manipulator	Narshge	UM-3C	
Micromanipulator	Narshge	UM-1PF	
Pipette Holder	Narshge	UP-1	Alternate to Xenoworks pipette holder
Magnetic stand	Narshge	GJ-1	
Dissecting scope	Olympus	SX61	Recommended scope, although other models are likely compatible
Olympus IX71 Fluorescent microscope	Olympus	IX71	Included with Deltavision system
CoolSNAP HQ2	Photometrics	29065728	Included with Deltavision system
Recombinant <i>C. difficile</i> Toxin A/ TcdA Protein	R&D Systems	8619-GT-020	
EGF	R&D Systems	236-EG	Component of ENR media; see McCracken et al. ²⁴
R-spondin 1	R&D Systems	4645-RS	Component of ENR media; see McCracken et al. ²⁴

Noggin	R&D Systems	6057-NG	Component of ENR media; see McCracken et al. ²⁴
Mineral oil	Sigma-Aldrich	M8410	
FITC-dextran (4 kDa)	Sigma-Aldrich	46944	
Micropipette puller	Sutter Instruments	P-30	
Nunc Lab-Tek II Chamber Slides	ThermoFisher Scientific	154526PK	
Glass filaments	WPI	TW100F-4	
Micropipette holder	Xenoworks	BR-MH2	Preferred device
Analog Tubing kit	Xenoworks	BR-AT	
1/16 in clear ferrule	Xenoworks	V001104	
1-1.2 mm O-ring	Xenoworks	V300450	