

Materials List for:

Methods to Study Epithelial Transport Protein Function and Expression in Native Intestine and Caco-2 Cells Grown in 3D

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Materials

Name	Company	Catalog Number	Comments
10x PBS	ATCC	ATCC® HTB37™	Cells
10x PBS	Carl Zeiss		Microscope for confocal Imaging
³ [H]-5-HT	LabtekII	152453	Culturing cells for microscopy
5-HT	Gibco	70013-032	Not a hazardous substance
95% O ₂ - 5% CO ₂ cylinder	KPL	71-00-27	Not a hazardous substance
Agar (for Agar plates)	Fischer	BP151-100	Acute toxicity, Ora
Agar (for electrode)	Sigma	G7126-1KG	Not a hazardous substance
Alexa Fluor Phalloidin	Sigma	C3867-1VL	Not a hazardous substance
Bovine Serum Albumin (BSA)	Sigma	P6148-500G	Harmful if swallowed or if inhaled
CaCl ₂	LifeTechnologies	A12380	Not a hazardous substance
Caco-2 Cells	Sigma	A8806-5G	Not a hazardous substance
Cell lysis Buffer	Fischer	BP337-100	Not a hazardous substance
Chabered slides	Sigma	S5886-1KG	Not a hazardous substance
Collagen Type-1 Solution	Sigma	S8045-500G	
Electrodes	Sigma	S-0876	
EMEM	Gibco by Life Technologies	25200-056	
Fetal bovine serum (FBS)	Corning	356234	Used as Extracellular matrix
Fluoxetine	Qiagen	74104	
Gentamicin	ATCC	30-2003	Cell culture Media
Glycin	Cell Signaling, Danvers, MA		
Hepes	Roche	11836145001	
Indomethacin	Gibco by Life Technologies	15070-063	
K ₂ HPO ₄	Gibco by Life Technologies	15710-064	
KOH	Gibco by Life Technologies	15630-080	
L-ascorbic acid	Gibco by Life Technologies	10082147	
Liquid scintillation counter	Gibco by Life Technologies	70013--032	
LSM710 Meta	Physiologic Instruments, San Diego, CA	EM-CSYS-8	
Mannitol	Physiologic Instruments, San Diego, CA	P2304	
Matrigel	Physiologic Instruments, San Diego, CA	VCC MC8	

MgCl ₂	Physiologic Instruments, San Diego, CA	DM MC6	
Multichannel Voltage/current Clamp	Physiologic Instruments, San Diego, CA	P2300	
NaCl	Physiologic Instruments, San Diego, CA	P2023-100	
NaCl	Fisher Scientific, Hampton, NH	BP1423	
NaHCO ₃	Sigma-Aldrich, St Louis, MO	S5886	
Normal Goat Serum (NGS, 10%)	Fisher Scientific, Hampton, NH	S233	
Paraformaldehyde (PFA)	Sigma-Aldrich, St Louis, MO	P288	
Pen-Strp	Sigma-Aldrich, St Louis, MO	C3881	
Protein assay reagent	Sigma-Aldrich, St Louis, MO	10420	
Proteinase Inhibitor Cocktail	MEDOX, Chicago, IL	style G- 12300	
RNA easy Mini kit	Sigma-Aldrich, St Louis, MO	M4125	
Single Channel Electrode Input Module	Sigma-Aldrich, St Louis, MO	A92902	
Sliders for snapwell Chambers	Sigma-Aldrich, St Louis, MO	H9523	
Sodium Phosphate (Na ₂ HPO ₄)	Sigma-Aldrich, St Louis, MO	F132	
Sodium-Hydroxide (NaOH)	Sigma-Aldrich, St Louis, MO	T7039	
TGF-β1	Perkin-Elmer, Waltham, MA	NFT1167250UC	
Triton X-100	Packard Instruments, Downers Grove, IL	B1600	
Trypsin EDTA	Sigma-Aldrich, St Louis, MO	221473	
Tween-20	Bio Rad Laboratories, Hercules, CA	5000006	
Ussing Chamber (chamber only)	Sigma-Aldrich, St Louis, MO	I7378	
Ussing Chamber Systems	Sigma-Aldrich, St Louis, MO	A1296	