

Materials List for

# Studying the Epithelial Effects of Intestinal Inflammation *In Vitro* on Established Murine Colonoids

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## Materials

Name	Company	Catalog Number	Comments
0.4- $\mu$ M transparent transwell, 24-well	Greiner Bio-one	662-641	
15-mL conical tubes	Thermo Fisher	12-565-269	
50-mL conical tubes	Thermo Fisher	12-565-271	
70- $\mu$ M cell strainer	VWR	76327-100	
Advanced DMEM/F12	Invitrogen	12634-010	Stock Concentration (1x); Final Concentration (1x)
B-27 supplement	Invitrogen	12587-010	Stock Concentration (50x); Final Concentration (1x)
Chopsticks Electrode Set for EVO	World Precision Instruments	STX2	
Corning Matrigel GFR Membrane Mix	Corning	354-230	Stock Concentration (100%); Final Concentration (100%)
Dithiothreitol (DTT)	Sigma-Aldrich	D0632-5G	Stock Concentration (1 M); Final Concentration (1.5 mM); Solvent (ultrapure water)
DMEM high glucose	Thermo Fisher	11960-069	Stock Concentration (1x); Final Concentration (1x)
Dulbecco's phosphate-buffered saline without Calcium and Magnesium	Gibco	14190-144	Stock Concentration (1x); Final Concentration (1x)
Ethylenediaminetetraacetic acid (ETDA)	Sigma-Aldrich	E7889	Stock Concentration (0.5 M); Final Concentration (30 mM)
Fetal Bovine Serum	Bio-Techne	S11150H	Stock Concentration (100%); Final Concentration (1%)
Fisherbrand Superfrost Plus Microscope Slides, White, 25 x 75 mm	Thermo Fisher	12-550-15	
G418	InvivoGen	ant-ga-1	Final Concentration (400 $\mu$ g/ $\mu$ L)
Gentamicin Reagent	Gibco/Fisher	15750-060	Stock Concentration (50 mg/mL); Final Concentration (250 $\mu$ g/mL)

GlutaMAX-1	Fisher Scientific	35050-061	Stock Concentration (100x); Final Concentration (1x)
HEPES 1 M	Gibco	15630-080	Stock Concentration (1 M); Final Concentration (10 mM)
hIFN $\gamma$	R&D Systems	285-IF	Stock Concentration (1000 ng/ $\mu$ L); Final Concentration (10 ng/mL); Solvent (ultrapure water)
hIL-1 $\beta$	R&D Systems	201-LB	Stock Concentration (10 ng/ $\mu$ L); Final Concentration (20 ng/mL); Solvent (ultrapure water)
hTNF $\alpha$	R&D Systems	210-TA	Stock Concentration (10 ng/ $\mu$ L); Final Concentration (40 ng/mL); Solvent (ultrapure water)
Hydrogen Peroxide	Sigma	H1009	Stock Concentration (30%); Final Concentration (0.003%); Solvent (Mouse wash media)
Hygromycin B Gold	InvivoGen	ant-hg-1	Final Concentration (400 $\mu$ g/ $\mu$ L)
L-WRN Cell Line	ATCC	CRL-3276	
mEGF	Novus	NBP2-35176	Stock Concentration (0.5 $\mu$ g/ $\mu$ L); Final Concentration (50 ng/mL); Solvent (D-PBS + 1% BSA)
N-2 supplement	Invitrogen	17502-048	Stock Concentration (100x); Final Concentration (1x)
N-Acetyl-L-cysteine	Sigma	A9165-5G	Stock Concentration (500 mM); Final Concentration (1 mM); Solvent (ultrapure water)
Noggin	Peptotech	250-38	Stock Concentration (0.1 ng/ $\mu$ L); Final Concentration (100 ng/mL); Solvent (UltraPure water + 0.1% BSA)
Penicillin-Streptomycin (10,000 U/mL)	Thermo Fisher	15140-122	Stock Concentration (100x); Final Concentration (1x)
Petri dishes (sterilized; 100 mm x 15 mm) Polystyrene disposable	VWR	25384-342	
Polystyrene Microplates, 24 well tissue culture treated, sterile	Greiner Bio-one	5666-2160	
R-Spondin	R&D Systems	3474-RS-050	Stock Concentration (0.25 $\mu$ g/ $\mu$ L); Final Concentration (500 ng/mL); Solvent (D-PBS + 1% BSA)
Tryp LE Express	Thermo Fisher	12604-013	Stock Concentration (10x); Final Concentration (1x); Solvent (1 mM EDTA)
UltraPure Water	Invitrogen	10977-023	Stock Concentration (1x); Final Concentration (1x)
Y-27632 dihydrochloride	Abcam	ab120129	Stock Concentration (10 mM); Final Concentration (10 $\mu$ M); Solvent (UltraPure Water)