

Materials List for

A Technique to Develop Parasite Infection in Intestinal Organoids via Microinjection

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Materials

Name	Company	Catalog Number	Comments
Basement membrane extract (extracellular matrix)	amsbio	3533-010-02	
Dynamag 15 rack	ThermoFisher Scientific	12301D	
Dynamag 2 rack	ThermoFisher Scientific	12321D	
EMD Millipore Isopore Polycarbonate Membrane Filters-3µm	EMD-Millipore	TSTP02500	
Fast green dye	SIGMA	F7252-5G	
Femtojet 4i Microinjector	Eppendorf	5252000013	
Glass capillaries of 1 mm diameter	WPI	TW100F-4	
Matrigel (extracellular matrix)	Corning	356237	
Microfuge tube 1.5ml	Eppendorf	T9661-1000EA	
Micro-loader tips	Eppendorf	612-7933	
Micropipette puller P-97	Shutter instrument	P-97	
Penstrep	Gibco	15140-122	
Sodium hypochlorite (use 5%)	Clorox	50371478	
Super stick slides	Waterborne, Inc	S100-3	
Swinnex-25 47mm Polycarbonate filter holder	EMD-Millipore	SX0002500	
Taurocholic acid sodium salt hydrate	SIGMA	T4009-5G	
Tween-20	Merck	8221840500	
Vortex Genie 2	Scientific industries, Inc	SI0236	
Adv+++ (DMEM+Penstrep +Glutamax+Hepes)			Final amount
DMEM	Invitrogen	12634-010	500ml
Penstrep	Gibco	15140-122	5ml of stock in 500ml DMEM
Glutamax	Gibco	35050038	5ml of stock in 500ml DMEM
Hepes	Gibco	15630056	5ml of stock in 500ml DMEM
INTESTINAL ORGANOID MEDIA-OME (Expansion media)			Final concentration
A83-01	Tocris	2939-50mg	0.5µM
Adv+++			make upto 100 ml
B27	Invitrogen	17504044	1X
EGF	Peptotech	AF-100-15	50ng/mL
Gastrin	Tocris	3006-1mg	10 nM
NAC	Sigma	A9125-25G	1.25mM

NIC	Sigma	N0636-100G	10mM
Noggin CM	In house*		10%
P38 inhibitor (SB202190)	Sigma	S7076-25 mg	10µM
PGE2	Tocris	2296-10	10 nM
Primocin	InvivoGen	ant-pm-1	1ml/500ml media
RSpol CM	In house*		20%
Wnt3a CM	In house*		50%
In house* - cell lines will be provided upon request			
INTESTINAL ORGANOID MEDIA-OMD (Differentiation media)			To differentiate organoids, expanding small intestinal organoids were grown in a Wnt-rich medium for six to seven days after splitting, and then grown in a differentiation medium (withdrawal of Wnt, nicotinamide, SB202190, in a differentiation medium (withdrawal of Wnt, nicotinamide, SB202190, prostaglandin E2 from a Wnt-rich medium or OME)
Reducing buffer (for resuspension of oocysts and sporozoites for injection)			Final concentration
L-Glutathione reduced	Sigma	G4251-10MG	0.5 µg/µl of OME/OMD/LOM
Betaine	Sigma	61962	0.5 µg/µl of OME/OMD/LOM
L-Cysteine	Sigma	168149-2.5G	0.5 µg/µl of OME/OMD/LOM
Linoleic acid	Sigma	L1376-10MG	6.8 µg/ml of OME/OMD /LOM
Taurine	Sigma	T0625-10MG	0.5 µg/µl of OME/OMD/LOM