

Basic Three-Dimensional (3D) Intestinal Model System with an Immune Component

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Materials

Name	Company	Catalog Number	Comments
Alcian Blue/PAS kit	ScyTek Laboratories, Inc.	APS-1, APS-2	kit for immunohistochemical staining
Blue Trypan solution	Thermo Fisher	15250061	cell count analyses
Caco-2 colorectal adenocarcinoma cells	ATCC	ATCC HTB-37	cell line
Citro-Histo-Clear Limonene based	Histoline laboratories	R0050CITRO	reagent for paraffin embedding
Dulbecco's Modified Eagle Medium (DMEM)	GIBCO	11965092	cell culture reagent
Embedding Center	Histoline laboratories	TEC2900	instrument for paraffin embedding
Fetal Bovine Serum (FBS)	GIBCO	A5256701	cell culture reagent
Hanks' Balanced Salt Solution (HBSS)	GIBCO	12350039	cell culture reagent
Human Midkine ELISA kit	Cohesion Biosciences	CEK1270	kit ELISA
Inverted microscope	Eclipse Ts2, Nikon	MFA34100	microscope
L929 mouse fibroblasts	ATCC	ATCC ®-CCL1	cell line
LC3-II	Novus Biologicals	NB910-40752SuperNovusPack	antibody
L-Glutamine	GIBCO	A2916801	cell culture reagent
Occludin	Novus Biologicals	NBP1-87402	antibody
Paraffin Lab-O-Wax PLUS 56 °C–58 °C	Histoline laboratories	R0040 PLUS	instrument for paraffin embedding
Penicillin-Streptomycin	GIBCO	15070063	cell culture reagent
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rat tail collagen type I	GIBCO	A1048301	cell culture reagent
Roswell Park Memorial Institute Medium (RPMI)	GIBCO	21870076	cell culture reagent
Sodium pyruvate	GIBCO	11360070	cell culture reagent
Thermo Fisher Countess II FL Automated Cell Counter	Thermo Fisher	TF-CACC2FL	cell counting instrument
Transwell	Costar Corning	3413	plastic for cell culture
Trypsin	GIBCO	15090046	cell culture reagent

U937 a pro-monocytic, human myeloid leukemia cell line	ATCC	ATCC CRL-1593.2	cell line
UltraTek Alk-Phos Anti-Polyvalent (permanent red) Stain Kit	ScyTek Laboratories, Inc.	AMH080	kit for immunohistochemical staining