

Materials List for:

Real Time Analysis of Metabolic Profile in *Ex Vivo* Mouse Intestinal Crypt Organoid Cultures

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Materials

Name	Company	Catalog Number	Comments
BD Matrigel Basement Membrane Matrix, GFR, Phenol Red-free, LDEV-free	BD Biosciences	356231	
PBS (phosphate buffered saline), no magnesium, no calcium, pH 7.2	Life Technologies	20012-027	
Advanced DMEM/F-12 (1x)	Life Technologies	12634-028	
Dulbecco's Modified Eagle's Medium w/o glucose, L-glutamine, phenol red, sodium pyruvate, and sodium bicarbonate	Sigma-Aldrich	D5030	
Phenol red sodium salt	Sigma-Aldrich	P4758	Final Concentration 15 mg/l in DMEM (D5030) - step 2.2.2
Antibiotic-Antimycotic, 100x, 100 ml	Life Technologies	15240-062	Final concentration 1x or 2x
Penicillin-Streptomycin, liquid	Life Technologies	15140-122	Final concentration 1x
Gibco® GlutaMAX™ supplement	Life Technologies	35050061	Final concentration 1x
Gibco® HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid), 1 M	Life Technologies	15630-080	Final concentration 10 mM
N-acetyl-L-cysteine, 25 g	Sigma-Aldrich	A9165-25G	Final concentration 1 mM
100x N-2 supplement, liquid	Invitrogen	17502-048	Final concentration 1x
50x B-27® supplement minus Vitamin A, liquid	Invitrogen	12587-010	Final concentration 1x
Recombinant Mouse R-Spondin 1, CF, 50 µg	R&D Systems	3474-RS-050	Final concentration 500 ng/ml
Recombinant Murine EGF, 100 µg	Peptotech	315-09	Final concentration 50 ng/ml
Recombinant Murine Noggin, 20 µg	Peptotech	250-38	Final concentration 100 ng/ml
Gibco® L-glutamine, 200 mM	Life Technologies	25030-081	Final concentration 2 mM
Gibco® glucose powder	Life Technologies	15023-021	Final concentration 5 mM
Ambion® 0.5 M EDTA (ethylenediaminetetraacetic acid), pH 8.0	Life Technologies	AM9260G	Final concentration 3 mM for step 1.1.5 ; 2 mM for step 1.1.8
Name	Company	Catalog Number	Comments
DTT (dithiothreitol), 1M	Life Technologies	P2325	Final concentration 3 mM
Albumin from bovine serum (BSA)	Sigma-Aldrich	A2058	0.1% in PBS
Fetal Bovine Serum (FBS)	Life Technologies	16000-044	1% in PBS

Recovery™ Cell Culture Freezing Medium	Life Technologies	12648-010	
ROCK inhibitor (Y-27632)	Sigma-Aldrich	Y0503	Final concentration 10 μ M
Oligomycin	Sigma-Aldrich	O4876	Final concentration 1 μ M
Carbonyl cyanide-p-trifluoromethoxy-phenyl-hydrazone (FCCP)	Sigma-Aldrich	C2920	Final concentration 1 μ M
Rotenone	Sigma-Aldrich	R8875	Final concentration 1 μ M
Sodium hydroxide	Sigma-Aldrich	221465	Final concentration 0.1 N in PBS
XF24 Extracellular Flux Analyzer (XF Analyzer)	Seahorse Bioscience		