

Materials List for:

# An In Vitro Batch-culture Model to Estimate the Effects of Interventional Regimens on Human Fecal Microbiota

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## Materials

Name	Company	Catalog Number	Comments
Ammonium Bicarbonate (NH <sub>4</sub> HCO <sub>3</sub> )	Sigma-Aldrich	217255	
Ammonium Sulfate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	TGI	C2388	Toxic
Calcium Chloride Dihydrate (CaCl <sub>2</sub> •2H <sub>2</sub> O)	Sigma-Aldrich	C3306	Irritating
Cobaltous Chloride Hexahydrate (CoCl <sub>2</sub> •6H <sub>2</sub> O)	Sigma-Aldrich	255599	
Cupric Chloride Dihydrate (CuCl <sub>2</sub> •2H <sub>2</sub> O)	Acros organics	2063450000	Toxic, Irritating
Cysteine-HCl	Sigma-Aldrich	C121800	
D-biotin	Sigma-Aldrich	B4501	
D-Pantothenic acid	Alfa Aesar	A16609	
Disodium Ethylenediaminetetraacetate Dihydrate (Na <sub>2</sub> EDTA)	Biorad	1610729	
DL-α-methylbutyrate	Sigma-Aldrich	W271918	
Ferrous Sulfate Heptahydrate (FeSO <sub>4</sub> •7H <sub>2</sub> O)	Sigma-Aldrich	F8263	Toxic
Folic acid	Alfa Aesar	J62937	
Glucose	Sigma-Aldrich	G8270	
Hemin	Sigma-Aldrich	H9039	
Hepes	Alfa Aesar	A14777	
Isobutyrate	Alfa Aesar	L04038	
Isovalerate	Alfa Aesar	A18642	
Magnesium Chloride Hexahydrate (MgCl <sub>2</sub> •6H <sub>2</sub> O)	Sigma-Aldrich	M8266	
Manganese Chloride Tetrahydrate (MnCl <sub>2</sub> •4H <sub>2</sub> O)	Sigma-Aldrich	221279	
Niacin (Nicotinic acid)	Sigma-Aldrich	N4126	
Nickel(II) Chloride Hexahydrate (NiCl <sub>2</sub> •6H <sub>2</sub> O)	Alfa Aesar	A14366	Toxic
N-valerate	Sigma-Aldrich	240370	

P-aminobenzoic acid	MP China	102569	Toxic, Irritating
Phosphoric Acid (H <sub>3</sub> PO <sub>4</sub> )	Sigma-Aldrich	P5811	
Potassium Dihydrogen Phosphate (KH <sub>2</sub> PO <sub>4</sub> )	Sigma-Aldrich	P5504	
Potassium Hydrogen Phosphate (K <sub>2</sub> HPO <sub>4</sub> )	Sigma-Aldrich	1551128	
Pyridoxine	Alfa Aesar	A12041	
Resazurin	Sigma-Aldrich	R7017	
Riboflavin	Alfa Aesar	A11764	
Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> )	Sigma-Aldrich	1613757	
Sodium chloride (NaCl)	Fisher BioReagents	7647-14-5	
Sodium hydroxide (NaOH)	Fisher Chemicals	S320	
Sodium Molybdate Dihydrate (Na <sub>2</sub> MoO <sub>4</sub> •2H <sub>2</sub> O)	Acros organics	206375000	
Thiamine Hydrochloride (Thiamin-HCl)	Acros organics	148991000	
Trypticase	BD Biosciences	211921	
Vitamin B12	Sigma-Aldrich	V2876	
Yeast extract	Sigma-Aldrich	70161	
Zinc Sulfate Heptahydrate (ZnSO <sub>4</sub> •7H <sub>2</sub> O)	Sigma-Aldrich	Z0251	
0.22 µm membrane filter			
AMPure magnetic purification beads	Agencourt		
Anaerobic chamber with incubatore	Forma anaerobic system, Thermo Scientific, USA		
Bottle filter	Corning		
Cheesecloth			
Illumina MiSeq sequencer	Miseq reagent kit v3		
pH meter			
Qiagen PowerFecal kit	Qiagen		
Quantitative Insights into Microbial Ecology (QIIME) software			
Qubit-3 fluorimeter	InVitrogen		
Vortex	Thermoscientific		
Waters-2695 Alliance HPLC system	Waters Corporation		