

Materials List for:

Untargeted Metabolomics from Biological Sources Using Ultraperformance Liquid Chromatography-High Resolution Mass Spectrometry (UPLC-HRMS)

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Materials

Name	Company	Catalog Number	Comments
Reagent			
Phosphate Buffered Saline	Mediatech	21-031-CM	
Water (H ₂ O)	Fisher Scientific	W7-4	(optima)
Acetonitrile (CH ₃ CN)	Fisher Scientific	A996-4	(optima)
Methanol (CH ₃ OH)	Fisher Scientific	A454-4	(optima)
Isopropanol	Fisher Scientific	A464-4	(optima)
Chloroform (CH ₃ Cl)	Sigma-Aldrich	366927	Hazard
Dichloromethane (CH ₂ Cl ₂)	Acros Organics	61030-1000	To replace chloroform
Diethyl Ether	Sigma-Aldrich	346136	To replace chloroform
Formic Acid (FA)	Fisher Scientific		(optima)
NH ₄ OH	Fisher Scientific	A470-250	(optima)
Ammonium formate (HCOONH ₄)	Sigma-Aldrich	78314	
MicroSpin C18 Columns	Nest Group Inc	SS18V	
Pasteur Pipettes	Fisher Scientific	13-678-200	
10 ml Glass Centrifuge Tubes	Kimble Chase	73785-10	
10 ml Plastic Centrifuge Tubes	CellTreat	CLS-4301-015	
LC Vials (glass)	Waters	60000751CV	
LC Inserts (glass)	Waters	WAT094171	
LC Vials (plastic)	Waters	186002640	
0.22 µm Filters	Corning	8169	nylon
2 ml Eppendorf Tubes	BioExpress	C-3229-1	Low Retention
Equipment			
High Resolution Mass Spectrometer	Thermo Scientific	LTQ XL-Orbitrap	
HPLC/UPLC	Waters	nanoACQUITY UPLC	
Source	Michrom	Thermo Advance Source	
Differential Analysis Software	Thermo Scientific	SIEVE 2.0	
nanoACQUITY C18 BEH130	Waters	186003546	1.7 µm particle size, 150 mm x 100 µm
Acentis Express C8	Sigma-Aldrich	54262	2.7 µm particle size, 15 cm x 200 µm