

Materials List for:

Extraction of Aqueous Metabolites from Cultured Adherent Cells for Metabolomic Analysis by Capillary Electrophoresis-Mass Spectrometry

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Materials

Name	Company	Catalog Number	Comments
Automated cell counter	Thermo Scientific	AMQAX1000	Countess II automated cell counter
Automatic integration software	Agilent Technologies	MassHunter G3335-60041	version B.02.00
CE system	Agilent Technologies	Agilent 7100 CE system	
CE/MS adapter kit	Agilent Technologies	G1603A	
CE-ESI-MS Sprayer kit	Agilent Technologies	G1607A	
Cell counting chamber slide	Thermo Scientific	C10282	Countess cell counting chamber slides
Centrifugal filter device, 5 kDa	Human Metabolome Technologies	ULTRAFREE MC PLHCC, UFC3LCCNB-HMT	
Conical sterile polypropylene tube, 15 ml	Thermo Scientific	N339651	
Conical sterile polypropylene tube, 50 ml	Thermo Scientific	N339653	
Costar stripette, 10 ml	Corning	4488	
Costar stripette, 5 ml	Corning	4487	
D(-)-Mannitol	Wako	133-00845	500 g
Dulbecco's phosphate buffered saline (DPBS)	Sigma-Aldrich	D8537-500ML	
Electrophoresis buffer	Human Metabolome Technologies	H3301-1001	for cation analysis
Electrophoresis buffer	Human Metabolome Technologies	H3302-1021	for anion analysis
Fetal bovine serum	Biowest	S1780	
Filter tip, 1000 µl	Watson	124P-1000S	
Filter tip, 20 µl	Watson	124P-20S	
Filter tip, 200 µl	Watson	1252-703CS	
Fused silica capillary	Polymicro Technologies	TSP050375	50 µm i.d. × 80 cm total length
HCC827	American Type Culture Collection	CRL-2868	
Internal standard solution	Human Metabolome Technologies	H3304-1002	
Isocratic pump	Agilent Technologies	Agilent 1100 Series Isocratic Pump	
Methanol	Wako	138-14521	1 L, LC/MS grade
Microtube, 1.5 ml	Watson	131-415C	
Operating Software	Agilent Technologies	ChemStation G2201AA	version B.03.01 for CE
PC-9	RIKEN Bio Resource Center	RCB4455	
RPML-1640	Sigma-Aldrich	R8758-500ML	

Sterile tissue culture dish, 100 mm	Corning	430167	
Time-of-flight mass spectrometer	Agilent Technologies	Agilent G1969A Time-of-Flight LC/MS	
Trypan blue solution, 0.4%	Thermo Scientific	T10282	
Trypsin-EDTA solution	Sigma-Aldrich	T4049-100ML	
Ultrapure water	Merck	Milli-Q water	18.2 MΩ·cm pure water
Volumetric flask, 50 ml	Iwaki	5640FK50E	TE-32