

Materials List for

Applications of Liquid Chromatography-Tandem Mass Spectrometry in Natural Products Research: Tropane Alkaloids as a Case Study

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Materials

Name	Company	Catalog Number	Comments
Acetonitrile, For UHPLC, suitable for mass spectrometry	Sigma-Aldrich	900667	HPLC solvent
Argon gas	AirGas	AR UHP300	CID gas
Formic acid, 99% for analysis	Thermo Scientific	AC270480010	HPLC additive
Guard column holder	Restek	25812	
HPLC, Shimadzu LC-2030C 3D Plus	Shimadzu	228-65802-58	HPLC column
LCMS, Shimadzu LCMS-8045	Shimadzu	225-31800-44	Mass spectrometer; we ran LabSolutions software, which is standard for Shimadzu instruments
Liquid nitrogen	AirGas	NI 180LT22	
Methanol, for HPLC/UHPLC/LCMS	VWR	BDH 85800.400	For making extraction solvent
Microcentrifuge	VWR	2400-37	
Microcentrifuge tubes, 1.5 mL	Fisher Scientific	05-408-129	
Mortar	Fisher Scientific	FB961C	For grinding plant tissues
Pestle	Fisher Scientific	FB961M	For grinding plant tissues
Pipette 1000 mL	Gilson	F144059M	
Pipette tip 1000 mL	Fisher scientific	02-707-404	
Plant tissues	Various sources	N/A	Can be anything wild or cultivated
Polypropylene conical tubes, 15 mL	Fisher Scientific	05-539-4	
Polystyrene cooler	ULINE	S-18312	The type of coolers that reagents for molecular biology are shipped in would be appropriate
Roc C18 3 μ m, 100 mm x 4.6 mm	Restek	9534315	HPLC column
Roc C18, 10 mm x 4 mm	Restek	953450210	Guard column
Rocking shaker	Thermo Scientific	11-676-680	
Screw thread vial convenience kit (9 mm)	Fisher scientific	13-622-190	LCMS autosampler vials
Syringe, 3 mL	Fisher Scientific	03-377-27	

Syringe filter 0.45 µm	Avantor/VWR	76479-008	
Water, for use in liquid chromatography and mass spectrometry	JT Baker	9831-03	For making extraction solvent
Water solution, contains 0.1% v/v formic acid, For UHPLC, suitable for mass spectrometry	Sigma-Aldrich	900687-1L	HPLC solvent