

Materials List for:

Post Column Derivatization Using Reaction Flow High Performance Liquid Chromatography Columns

Andrew Jones¹, Sercan Pravadali-Cekic¹, Stanley Hua¹, Danijela Kocic¹, Michelle Camenzuli², Gary Dennis¹, Andrew Shalliker¹

¹School of Science and Health, University of Western Sydney

²Van't Hoff Institute for Molecular Sciences, University of Amsterdam

Correspondence to: Andrew Shalliker at r.shalliker@uws.edu.au

URL: <https://www.jove.com/video/53462>

DOI: [doi:10.3791/53462](https://doi.org/10.3791/53462)

Materials

Name	Company	Catalog Number	Comments
HPLC instrument	Agilent	1290 Series HPLC	
Additional Pump(s) for derivatization system	Shimadzu	LC-20A	
RF colum			Non-commercial
PEEK tubing	Sigma Aldrich	Z227307	
Column stoppers			Provided with column
PEEK tube cutter	Sigma Aldrich	Z290882	
Analytical Scale Balance			4-point analytical balance
Stop watch			Non-Scientific equipment
Eluent collection vials			Any Small vial with a flat bottom will do, e.g., HPLC vials
HPLC Vials			Will depend on instrument used
Vessels for mobile phase and derivatization solution(s)	Sigma Aldrich	Z232211	
General Laboratory glassware			Volumetric Flasks, pipettes, etc. Quantity and volumes will depend on sample preparation method.
Methanol	Sigma Aldrich	34860	
DPPH	Sigma Aldrich	D9132	
Ammonium Acetate	Sigma Aldrich	17836	
Ammonia	Sigma Aldrich	320145	Corrosive
Acetonitrile	Sigma Aldrich	34998	
Fluorescamine	Sigma Aldrich	F9015	
4-aminoantipyrine	Acros Organics BVBA	AC103151000	
Potassium ferricyanide	AnalaR	B10204-30	