

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE174**ISOLATION OF ORGANIC ACID
FROM AQUEOUS SOLUTIONS**

Spe-ed™ Cartridge	Cat. No. 2003 – Octadecyl C18/14%, 500mg/3mL. Process with <i>Spe-ed Mate</i> .
Sample Preparation	Dilute 1mL leaf extracts (peumus boldus) to 5mL with water.
Cartridge Conditioning	2mL methanol. 2mL water. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Add 2mLs of prepared sample to cartridge.
Cartridge Wash	4mL of 0.05 M ammonium monohydrogenphosphate buffer. 2mL water.
Analyte Elution	2mL methanol. Dilute to 5mL with same solvent.
HPLC Conditions	
Column	C18 column, 30cm x 3.9mm I.D.
Mobile phase	Acetonitrile: water: triethylamine (87:15:0.2 v/v), adjust to pH 2.6 with 10% phosphoric acid.
Flow Rate	1.8mL/minute.
Detector	270nm (0.01 a.u.f.s.)

Note: *Since sample matrix interferences and concentrations may vary from sample to sample, it may be necessary to adjust the wash and elution solvent/solution strength and/or volume to optimize isolation.*

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