

SPE

Solid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE194

ISOLATION OF PHENOLS FROM AQUEOUS SOLUTIONS

Spe-ed™ Cartridge	Cat. No. 2006- Octadecyl C18/14%, 500mg/6mL. Process with <i>Spe-ed Mate</i> .
Sample Preparation	Add 50gms of sodium chloride to 200mLs of sample. Adjust to pH2 with 1 N HCl
Cartridge Conditioning	2 x 5mLs of methanol, followed immediately by 5mLs of 0.01 N HCl. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Fill cartridge 2/3 full with sample solution. Insert universal adaptor on the top of cartridge. Insert 75mL reservoir on top of adaptor. Fill reservoir with sample solution, and aspirate through cartridge at 5-8mLs/minute. Add remaining sample solution to reservoir, and do not allow the reservoir to empty until the last volume of sample solution is added. Aspirate all sample solution from cartridge.
Cartridge Wash	2 sequential 0.5mL volumes of 0.01 N HCl. Air-dry cartridge under vacuum for 4-5 minutes.
Analyte Elution	3 sequential 0.5mL volumes of methanol. It may be necessary to evaporate sample, and reconstitute in an analytically suitable solvent/ solution.

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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