

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE215**ISOLATION OF TRACE CAFFEINE
FROM AQUEOUS SOLUTIONS**

Spe-ed™ Cartridge	Cat. No.2083- PH Phenyl, 500mg/3mL. Process with <i>Spe-ed Mate</i> 10 or 30.
Cartridge Conditioning	1 cartridge volume of methanol, followed by 1 cartridge volume of distilled water.
Sample Addition	With vacuum OFF, add 2mL of distilled water to the extraction cartridge. Attach 75mL reservoir to top of cartridge using column adaptor. Add 50mL of sample reservoir, and aspirate through cartridge at 5mLs/minute.
Cartridge Wash	Wash cartridge with 2 cartridge volumes of 90% 0.15 M ammonium hydroxide/ 10% methanol. Allow each wash to remain on the packing for 30 seconds prior to aspiration through the cartridge. Air dry cartridge under vacuum for 30 seconds.
Analyte Elution	Using the volumetric collection rack, and 2mL volumetric(s), elute with 2 x 1mL aliquots of 30% acetonitrile / 70% of 1% acetic acid in distilled water. Dilute to volume with eluting solvent, and mix well.

The logo for Applied Separations, featuring the company name in a bold, italicized sans-serif font with horizontal lines above the word "Applied".930 Hamilton Street · Allentown, PA 18101
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