

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE198

ISOLATION OF ORGANIC ACID FROM SEA WATER

Spe-ed™ Cartridge	Cat. No. 12007- Octadecyl C18/18%, 1,000mg/6mL. Process with <i>Spe-ed Mate</i> .
Sample Preparation	Adjust pH of 100mL sea water to pH2 (Suppress ionization of organic acids). Add 5mLs of methanol to sample.
Cartridge Conditioning	5mL of methanol, followed by 5mL of water. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Attach 75mL reservoir to C18 column, and add 100mL of prepared sample to column, aspirate slowly through the column.
Cartridge Wash	5mL of water (pH 2.0) Air dry cartridge for 10 minutes at 15in. hg vacuum.
Analyte Elution	1mL of organic solvent –ex: methanol methylene chloride, or hexane (choose solvent that will dissolve non-ionized organic acid).

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.*

The logo for Applied Separations, featuring the word "Applied" in a bold, italicized font above the word "Separations" in a similar font, with a stylized graphic of horizontal lines to the left.

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