

SPE103

ISOLATION OF CHROMIUM, MANGANESE, IRON,
COBALT, NICKEL, COPPER, AND ZINC
FROM AQUEOUS SOLUTIONS

Spe-ed™ Cartridge	Cat. No. 2003- Octadecyl C18/14%, 500mg/3mL. Process with <i>Spe-ed Mate</i>
Sample Preparation	Add 0.1mL of 5% 8 hydroxyquinoline in 0.5N HCl to 250mL of aqueous sample, then adjust to pH 8.5 with 5N ammonium hydroxide.
Cartridge Conditioning	2 x 3mL of methanol followed immediately by 3mL of water (pH 8.5/ammonia hydroxide). DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Fill cartridge 2/3 full with sample solution. Insert universal adaptor on top of cartridge. Insert 75mL reservoir on top of adaptor. Fill reservoir with sample solution and aspirate through cartridge at 4-5mL/min. 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 solutions from cartridge.
Cartridge Wash	2 sequential 0.5mL volumes of water (adjust pH to 8.5 with ammonium hydroxide). Air-dry cartridge under vacuum for 3-4 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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