

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE106

Isolation of Aflatoxins From Grain, Corn, and Nut Meats

Spe-ed™ Cartridge

Catalog number 2006 – Octadecyl C18/14%, 500mg/6mL.
Process with *Spe-ed* Mate 10 or 30.

Sample Preparation

Grind sample to a fine meal. Homogenize 10gms of meal with 25mL of 65% acetonitrile/35% distilled water. Filter and dilute to 200mL with distilled water.

**Cartridge
Conditioning**

2 x 5mL of methanol followed immediately by 5mL of 92% distilled water/8% acetonitrile. DO NOT ALLOW CARTRIDGE TO RUN DRY!

Sample Addition

Fill cartridge 2/3 full with sample solution. Insert universal adaptor (Catalog #2402) on top of cartridge. Fill reservoir with sample solution and aspirate through cartridge at 5-8 mL/minute. Add remaining sample solution to reservoir and do not allow the reservoir to empty until the last volume of sample is added. Aspirate all sample solution from cartridge.

Cartridge Wash

2 sequential 1mL volumes of distilled water. Air dry cartridge under vacuum for 5 minutes.

Analyte Elution

3 sequential 0.5mL volumes of acetone. It may be necessary to evaporate sample and reconstitute in an analytically suitable solvent/solution.

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