

**SPE**Solid Phase  
Extraction

# Application Note

**World Leaders in Sample Preparation****SPE124****ISOLATION OF ORGANO CHLORINE PESTICIDES  
FROM SOIL OR LOW FAT TISSUE**

<b>Spe-ed™ Cartridge</b>	Cat. No. 2006- Octadecyl C18/14%, 500mg/6mL. Process with <i>Spe-ed Mate</i>
<b>Sample Preparation</b>	Homogenize 10gms. Of sample with 50mL of methanol. Filter and dilute 25ml of filtrate to 200mL with distilled water. Adjust pH to 7.
<b>Cartridge Conditioning</b>	2 x 5mL of methanol, followed immediately by 5mL of distilled water. <b>DO NOT ALLOW CARTRIDGE TO RUN DRY!</b>
<b>Sample Addition</b>	Fill cartridge 2/3 full with sample solution. Insert universal adaptor on top of cartridge. Insert 75mL reservoir on top adaptor. Fill reservoir with sample solution and aspirate through cartridge at 5- 8/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..
<b>Cartridge Wash</b>	2 sequential 0.5mL volumes of distilled water.
<b>Analyte Elution</b>	2 sequential 0.5mL volumes of 70% hexane/30% methylene chloride. 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.*

The logo for Applied Separations, featuring the company name in a bold, italicized sans-serif font. The word "Applied" is positioned above "Separations". To the left of the text is a stylized graphic consisting of several horizontal, slightly curved lines of varying lengths, resembling a flag or a series of steps.

930 Hamilton Street · Allentown, PA 18101  
610-770-0900 · 610-740-5520 (fax)  
[www.appliedseparations.com](http://www.appliedseparations.com)