

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE176

ISOLATION OF CHLORINATED HYDROCARBON PESTICIDES FROM SERUM OR PLASMA

Spe-ed™ Cartridge	Cat. No. 12001- Octadecyl C18/18%, 100mg/1mL. Process with <i>Spe-ed Mate</i> .
Sample Preparation	4mL serum of plasma was placed in a 16 x 125mm test tube and mixed with 20ng aldrin (IS). Add 2mLs methanol and vortex for 30 seconds and centrifuge for 5 minutes at 1,800rpm.
Cartridge Conditioning	1mL of isooctane → allow the cartridge to dry thoroughly 1mL of methanol. 2mL of deionized water. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Aspirate supernatant from prepared sample through cartridge.
Cartridge Wash	3mL deionized water. 1mL of 20% NH ₄ OH. Air-dry cartridge under vacuum for 15 minutes.
Analyte Elution	2 x 0.5mL aliquots of isooctane.

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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