

EPA Method 608 / 8080: Organochlorine Pesticides from Waste Water

I. Materials

Strata SPE Phase C18-E 1g/6mL
Part Number: 8B-S001-JCH
Conditioning Solvent: Methanol, DI Water
Wash Solvent: DI Water
Extraction Solvent: Methylene Chloride

II. Sample Preparation

Prepare the sample for analysis by acidifying the matrix to pH 2 using 50% H₂SO₄ and adding 10% NaCl. Fortify the solution with the desired analytes and surrogates dissolved in acetone.

III. Method

A. Condition:

1. 1 column volume of Methanol
2. 1 column volume of DI Water

B. Load:

Pass the sample through the Strata cartridge.
Large volume samples may be processed by following suggestions outlined in the Phenomenex document entitled "Large Volume SPE Processing".

A. Wash:

Wash the sample with three 5mL portions of DI Water. Dry thoroughly under full vacuum for 30 – 60 seconds to insure removal of aqueous wash.

B. Elute:

1. Insert appropriate collection tube into SPE manifold.
2. Rinse the inside of the sample bottle with 5 mL of methylene chloride and apply to the Strata SPE cartridge. Pull through at a rate not to exceed 3 ml/min. Repeat 2 x for a total of 15 ml methylene chloride elution.



IV. Analysis

- A. Eluate may contain traces of water which can be removed with anhydrous sodium sulfate. Evaporate sample to a final volume as specified by EPA method 8080.
- B. Analyze by GC using a Zebron ZB-5.

Note: This information is designed to serve as a convenient summary of the solid phase extraction protocol contained in the referenced US EPA method. Phenomenex makes no guarantee regarding the accuracy or completeness of the method. Please contact the US EPA for a copy of the original, complete method.

