

## **EPA Method 8081:** **Organochlorine Pesticides from TCLP Leachates**

Phenomenex Strata SDBL solid phase extraction cartridges are used to extract Organochlorine pesticides from aqueous TCLP extracts of solid and liquid matrices. Analyte detection and quantitation is done by GC / ECD using a Phenomenex Zebron ZB 1701 or ZB-5.

Please refer to EPA 8081 for a complete and thorough discussion of this methods capability and its limitations.

### *I. Materials*

Strata SPE Phase: SDBL 500mg/6mL  
Part Number: 8B-S014-HCH  
Conditioning Solvent: Methanol, DI Water  
Wash Solvent: DI Water  
Extraction Solvent: Acetone, Ethyl Acetate  
Optional: Adapter Cap (AH0-7191) and 75 ml Reservoir (AH0-7005).

### *II. Method*

#### *A. Condition:*

1. 5mL of Methanol
2. 5mL of DI Water

#### *B. Load:*

Pass sample through cartridge.  
Large volume samples may be processed by using an adapter cap to which an empty reservoir or solvent suction line is attached. (See Phenomenex Strata Document "Processing Large Volume Samples" for more information.)

#### *C. Wash:*

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

#### *D. Elute:*

1. Fill the syringe barrel with 5mL of Acetone and pull it through at a rate not to exceed 3 ml/min.



2. Rinse the sample bottle with two 5 ml of Ethyl Acetate and decant the portions into the syringe barrel. Pull the volumes through under vacuum at a rate not to exceed 3 ml/min. Combine eluents.

## *II. Analysis*

- A. Sample should be dried and diluted to a final volume as specified by EPA method 8081.
- B. Analyze by GC using Zebron ZB 1701 or 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.

