

EPA Method 8082: **Polychlorinated Biphenyls from Aqueous Matrices**

Phenomenex Strata C18-E solid phase extraction cartridges are used to extract polychlorinated biphenyl compounds (PCB's) from water samples or aqueous extracts of solid samples such as tissue and soils.

Please refer to EPA 8082 for a complete and thorough discussion of this methods capability and limitation.

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: Acetone, Acetonitrile

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 5mL 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 5mL of Acetonitrile 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.

III. Analysis

Sample should be dried and diluted to a final volume as specified by EPA method 8082.

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.