S*PURE Application Note - Environmental

Chorlinated Pesticides in Soil

On SEClute SPE Column



SPE Conditions

Procedure using SEClute[™] C18-Max SPE tube, 500mg/6mL (Part #5138767)

Sample Treatment: Weighed out 5 grams dry soil, spike with 1µg each of 16 chlorinated pesticides, add added 25mL methanol and homogenize. Filter with 75mL filter column (Part #210775). Dilute to 200mL with DI water and shake.

Conditioning: 2 x 5mL methanol, then 5mL DI water.

Sample Application: Attach 75mL reservoir (Part #210575) with a syringe adapter (Part #210705) and apply entire sample.

Elution: Elute chlorinated pesticides with 2 x 1mL n-hexane/CH2Cl2 (70:30), evaporate to dryness and reconstitute with 1mL iso-octane.

GC Conditions

Capillary column (Part #15807), AT[™] 5ms, 30m x 0.25mm i.d., 0.25µm film thickness.

Oven: 80°C (1min) to 100°C at 15°C/min, to 160°C at 10°C/min, to 275°C at 5°C/min, column head pressure at 14.0psi on the EPC-1000, dead time of 1.91 minutes Linear Velocity: 26cm/sec

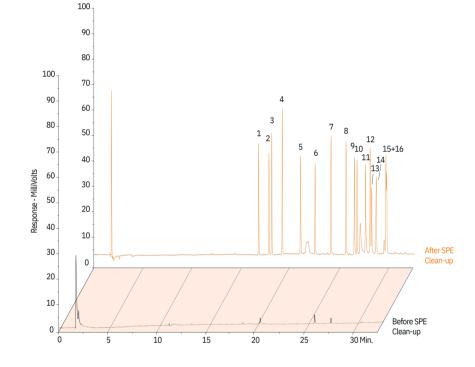
Flow: 0.77mL/minute

Split Vent Flow: 50mL/minute

Split Ratio: 65:1

Injector: 250°C

ECD: 310



l. a-BHC	9. p,p'-DDE
2.b-BHC	10. Dieldrin
3.g-BHC	11.Endrin
4.d-BHC	12.Endosulfan II
5.Heptachlor	13.p,p'-DDD
6.Aldrin	14.Endrin Aldehyde
7.Heptachlor Epoxide	15.p,p '- DDT
8.Endosulfan I	16.Endosulfan Sulfate

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