

Endocrine Disruptors in Soil

HPLC Method		Oasis [®] Conc	[®] SPE Method for Endocrine Disruptors ditions for Oasis [®] HLB Cartridge, 6 cc, 200 mg Part Number WAT106202
Column: Part number: Mobile Phase A: Mobile Phase B: Gradient:	Symmetry® C ₁₈ , 3.9 x 150 mm, 5 µm WAT046970 10 mM phosphate pH 6.8 Methanol Time Profile (min) %A %B 0 60 40 20 0 100		Part Number VVAI 100202 Prepare Sample: adjust to pH 3 Condition: 3 ml. MTBE* Rinse: 3 ml. methanol Rinse: 3 ml. H ₂ O Load: up to 500 ml. sample
Flow Rate: Injection volume: Sample:	1.0 mL/min 100 μL 10 g potting soil extracted with 25 mL acetonitrile; then SPE on Oasis® HLB		Wash: 3 mL 5% methanol in H2O Elute: 6 mL 10% methanol/MTBE1*
Detection:	PDA (225 nm extracted, 0.04 AUFS)	extract or	analysis, dry For LC analysis, exchange ver Na2SO4, to acetonitrile, then djust to 1 mL adjust to 1 mL
1. Benomyl	NH O 2. Carbaryl	CI N H N H N H N H H N H H	но Ho 4. Bisphenol A
	3 2 4 4 5 5 5 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	50 ppb spik Compounds 1. benomyl 2. carbaryl 3. atrazine 4. bisphenol A	e level <u>% Recovery ± % RSD</u> 62 ± 6 91 ± 4 84 ± 5 78 ± 6

Soil samples (5 g) were spiked with the appropriate compounds and extracted with 25 mL of acetonitrile (30 minutes on shaker). A 5 mL aliquot of the acetonitrile extract was diluted to 100 mL with reagent water (MilliQ) and then processed by SPE.

10

1

5

Minutes

0