

Analysis of Organochlorine Pesticides in a Soil Sample by a Modified QuEChERS Approach Using Ammonium Formate

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Materials

Name	Company	Catalog Number	Comments
15 mL disposable glass conical centrifuge tubes	PYREX	99502-15	
2 mL centrifuge tubes	Eppendorf	30120094	
50 mL centrifuge tubes with screw caps	VWR	21008-169	
5977B mass-selective detector	Agilent Technologies	1617R019	
7820A gas chromatography system	Agilent Technologies	16162016	
Acetone	Supelco	1006582500	
Acetonitrile	VWR	83642320	
Ammonium formate	VWR	21254260	
Automatic shaker KS 3000 i control	IKA	3940000	
Balance	Sartorius Lab Instruments Gmbh & Co	ENTRIS224I-1S	
Bondesil-C18, 40 µm	Agilent Technologies	12213012	
Bondesil-PSA, 40 µm	Agilent Technologies	12213024	
Cyclohexane	VWR	85385320	
EPA TCL pesticides mix	Sigma Aldrich	48913	
Ethyl acetate	Supelco	1036492500	
G4567A automatic sampler	Agilent Technologies	19490057	
HP-5ms Ultra Inert (5%-phenyl)-methylpolysiloxane 30 m x 250 µm x 0.25 µm column	Agilent Technologies	19091S-433UI	
Magnesium sulfate monohydrate	Sigma Aldrich	434183-1KG	
Mega Star 3.R centrifuge	VWR	521-1752	
Milli-Q gradient A10	Millipore	RR400Q101	
p,p'-DDE-d8	Dr Ehrenstorfer	DRE-XA12041100AC	
Pipette tips 2 - 200 µL	BRAND	732008	

Pipette tips 5 mL	BRAND	702595	
Pipette tips 50 - 1000 µL	BRAND	732012	
Pippette Transferpette S variabel 10 - 100 µL	BRAND	704774	
Pippette Transferpette S variabel 100 - 1000 µL	BRAND	704780	
Pippette Transferpette S variabel 20 - 200 µL	BRAND	704778	
Pippette Transferpette S variabel 500 - 5000 µL	BRAND	704782	
Vials with fused-in insert	Sigma Aldrich	29398-U	
OCPs		CAS registry number	
α-BHC		319-84-6	
β-BHC		319-85-7	
Lindane		58-89-9	
δ-BHC		319-86-8	
Heptachlor		76-44-8	
Aldrin		309-00-2	
Heptachlor epoxide		1024-57-3	
α-Endosulfan		959-98-8	
4,4'-DDE-d8 (IS)		93952-19-3	
4,4'-DDE		72-55-9	
Dieldrin		60-57-1	
Endrin		72-20-8	
β-Endosulfan		33213-65-9	
4,4'-DDD		72-54-8	
Endosulfan sulfate		1031-07-8	
4,4'-DDT		50-29-3	
Endrin ketone		53494-70-5	
Methoxychlor		72-43-5	