

HPLC Application

ID No.: 23803

Rapid Analysis of 125 Pesticides from Groundwater using UHPLC-MS/MS using Luna Omega 1.6 μ m C18

Column: Luna Omega 1.6 μ m C18 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID

Order No: 00B-4742-AN

Elution Type: Gradient

Eluent A: 2.5 mM Ammonium acetate + 0.05% acetic acid in water

Eluent B: 0.05% Acetic acid in acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	85	15
	2	0.5	85	15
	3	2.5	60	40
	4	5.75	25	75
	5	6.25	0	100
	6	7	0	100
	7	7.1	85	15
	8	8	85	15

Flow Rate: 0.55 mL/min

Col. Temp.: ambient

Detection: Tandem Mass Spec (MS-MS) @ (ambient)

Detector Info: Agilent 6495 Triple Quadrupole



Products used in this application:



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ANALYTES:

1 2,4,5-T	41 Dichlorprop	81 Metribuzin
2 2,4,5-TP	42 Dichlorvos	82 Metribuzin DA
3 2,4-D	43 Dicrotophos	83 Metribuzin DADK
4 2,4-DB	44 Difenoconazole	84 Metsulfuron-methyl
5 Acetamiprid	45 Dimethenamid	85 Myclobutanil
6 Acetochlor	46 Dimethenamid ESA	86 Nicosulfuron
7 Acetochlor ESA	47 Dimethenamid OXA	87 Norflurazon
8 Acetochlor OXA	48 Dimethoate	88 Norflurazon-desmethyl
9 Alachlor	49 Dinotefuran	89 Oxadiazon
10 Alachlor ESA	50 Disulfoton Sulfone	90 Oxydemeton-methyl
11 Alachlor OXA	51 Diuron	91 Parathion-methyl
12 Aldicarb Sulfone	52 Ethalfluralin	92 Parathion-methyl Oxon
13 Aldicarb Sulfoxide	53 Ethofumesate	93 Pendimethalin
14 Atrazine	54 Flufenacet OXA	94 Phorate
15 Azoxystrobin	55 Flumetsulam	95 Picloram
16 Bensulfuron-methyl	56 Flutriafol	96 Picoxystrobin
17 Bensulide	57 Fluxapyroxad	97 Prometon
18 Bentazon	58 Fonofos	98 Prometryn
19 Boscalid	59 Halosulfuron-methyl	99 Propachlor
20 Bromacil	60 Hexazinone	100 Propachlor ESA
21 Bromoxynil	61 Hydroxyatrazine	101 Propachlor OXA
22 Carbaryl	62 Imazamethabenz acid	102 Propazine
23 Carbendazim	63 Imazamethabenz-methyl	103 Propiconazole
24 Carbofuran	64 Imazamox	104 Pyraclostrobin
25 Chlorantraniliprole	65 Imazapic	105 Pyroxasulfone
26 Chlorimuron-ethyl	66 Imazapyr	106 Saflufenacil
27 Chlorpyrifos	67 Imazaquin	107 Sedaxane
28 Chlorpyrifos Oxon	68 Imazethapyr	108 Siduron
29 Clomazone	69 Imidacloprid	109 Simazine
30 Clopyralid	70 Isoxaflutole	110 Sulfometuron-methyl
31 Clothianidin	71 Linuron	111 Tebuconazole
32 Cyanazine	72 Malathion	112 Tebuprimiphos
33 Cyantraniliprole	73 MCPA	113 Tembotrione
34 Cyfluthrin	74 MCPB	114 Terbufos
35 DEDI Atrazine	75 MCPP	115 Tetraconazole
36 Deisopropylatrazine	76 Mesotrione	116 Thiacloprid
37 Desethylatrazine	77 Metalaxyl	117 Thiamethoxam
38 Diazinon	78 Metolachlor	118 Thifensulfuron-methyl
39 Diazinon Oxon	79 Metolachlor ESA	119 Thiobencarb
40 Dicamba	80 Metolachlor OXA	120 Tolfenpyrad
		121 Triallate
		122 Triasulfuron
		123 Triclopyr
		124 zeta-Cypermethrin
		125 Metribuzin DK

