

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:** Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient)**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	Ethalfuralin	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

