

Screening of 535 Pesticides by QuEChERS and LC/MS/MS

Column: Synergi™ 2.5 µm Fusion-RP 100 Å, LC Column 50 x 2 mm, Ea

Dimensions: 50 x 2 mm ID

Order No: 00B-4423-B0

Elution Type: Gradient

Eluent A: Water/Methanol (90:10) + 5 mM ammonium formate

Eluent B: Methanol/Water (90:10) + 5 mM ammonium formate

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	100	0
	2	1	100	0
	3	15	0	100
	4	18	0	100
	5	18.05	100	0
	6	20	100	0



Flow Rate: 0.4 mL/min

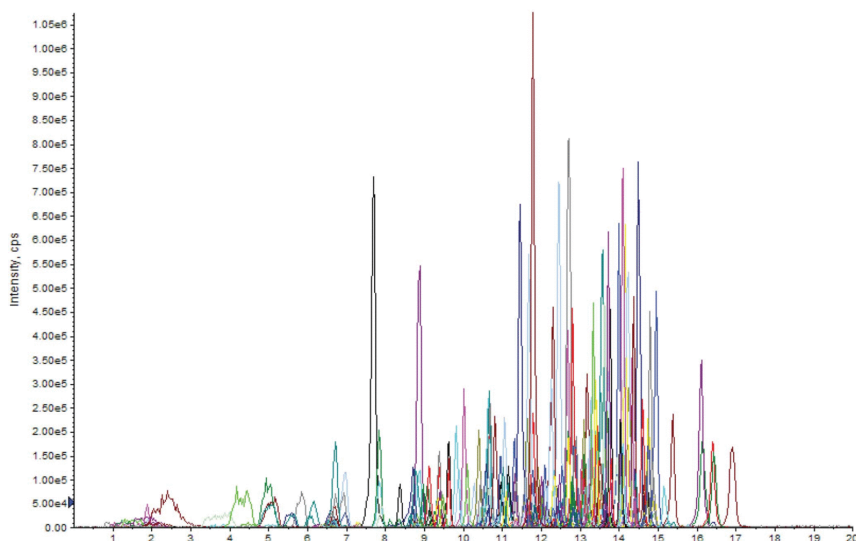
Col. Temp.: 40 °C

Detection: Tandem Mass Spec (MS-MS) @ (400 °C)

Detector Info: <a target="_blank"

href="https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20search&utm_source=phenomenex&utm_medium=referral">SCIEX
Phenomenex SecurityGuard Guard Cartridge kit (P/N KJ0-4282) with C18 4 x 2.0 mm cartridge (P/N AJ0-4286)

Analyst Note:



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ANALYTES:

- | | | |
|------------------------------------|--------------------------------|-----------------------------|
| 1 Aminopyralid | 41 Monocrotophos | 81 Clethodim-imin-sulfoxide |
| 2 Glufosinate | 42 5-Hydroxy-imidacloprid | 82 Isocarbamid |
| 3 Maleic hydrazide | 43 Imidacloprid-Olefin | 83 Atrazine-desethyl |
| 4 Amitrol | 44 Benazolin | 84 Cymoxanil |
| 5 Daminozide | 45 Pymetrozine | 85 Diflufenzopyr |
| 6 Prohexadione | 46 Nicotine | 86 Flazasulfuron |
| 7 Ethylenthiourea | 47 Thiofanox-sulfoxide | 87 Oxasulfuron |
| 8 Clopyralid | 48 2-Naphthyloxyacetic acid | 88 Propoxycarbazone |
| 9 Methamidophos | 49 Ethiofencarb-sulfone | 89 Carbenfendazim |
| 10 Acephate | 50 Imazaquin | 90 Pyroxsulam |
| 11 Imazapyr | 51 Propamocarb | 91 Dimetilan |
| 12 Mesotrione | 52 Fenuron | 92 Sulfometuron-methyl |
| 13 Methomyl-oxime | 53 5-Hydroxy-clethodim-sulfone | 93 Sulfosulfuron |
| 14 Omethoate | 54 Diquat | 94 Clethodim-sulfone |
| 15 Oxamyl-oxime | 55 Ethiofencarb-sulfoxide | 95 Clethodim-sulfoxide |
| 16 Atrazine-desethyl-2-hydroxy | 56 Metsulfuron-methyl | 96 Triasulfuron |
| 17 Cyromazine | 57 Rimsulfuron | 97 Atrazine-2-hydroxy |
| 18 Aldoxycarb | 58 Simazine-2-hydroxy | 98 Thiacloprid |
| 19 Aldicarb-sulfoxide | 59 Thifensulfuron-methyl | 99 Aldicarb |
| 20 Dinotefuran | 60 Dicrotophos | 100 Foramsulfuron |
| 21 Butocarboxim-sulfoxide | 61 Trichlorfon | 101 Mevinphos |
| 22 Sulcotrione | 62 Clothianidin | 102 Tricyclazole |
| 23 Butoxycarboxim | 63 Metamitron | 103 Tribenuron-methyl |
| 24 Quinmerac | 64 Dioxacarb | 104 3-Keto-carbofuran |
| 25 6-Chlor-3-phenyl-pyridazin-4-ol | 65 Imidacloprid | 105 Metoxuron |
| 26 Nitenpyram | 66 Imazethapyr | 106 Halosulfuron-methyl |
| 27 Flumetsulam | 67 Thiofanox-sulfone | 107 Iodosulfuron-methyl |
| 28 Methomyl | 68 Azimsulfuron | 108 Metolcarb |
| 29 Oxamyl | 69 Chlorsulfuron | 109 Desmethyl-pirimicarb |
| 30 Fluroxypyr | 70 Diamidafos | 110 Ethametsulfuron-methyl |
| 31 Flonicamid | 71 Dimethoate | 111 Paraoxon-methyl |
| 32 Imazapic | 72 Ethidimuron | 112 Amicarbazone |
| 33 Oxydemeton-methyl | 73 5-Hydroxythiabenzazole | 113 Carbetamide |
| 34 Demeton-S-methyl sulfone | 74 Chloridazon | 114 Flupyr-sulfuron-methyl |
| 35 Thiamethoxam | 75 Flucarbazone | 115 Sebuthylazine-desethyl |
| 36 Formetanate | 76 3-Hydroxycarbofuran | 116 Thiabenzazole |
| 37 Amidosulfuron | 77 Acetamiprid | 117 Difenzoquat |
| 38 Dicyclanil | 78 Chlorthiamid | 118 Mesosulfuron-methyl |
| 39 Atrazine-desisopropyl | 79 Vamidothion | 119 Monuron |
| 40 Thien-carbazone-methyl | 80 Clethodim-imin-sulfone | 120 Pyroquilon |
| | | 121 Metribuzin |
| | | 122 Oxadixyl |
| | | 123 Fuberidazole |
| | | 124 Penoxsulam |
| | | 125 Quinclamine |
| | | 126 Bromacil |
| | | 127 Carbofuran |
| | | 128 Demeton-S-methyl |
| | | 129 Dichlorvos |
| | | 130 Phosphamidon |
| | | 131 TERP |

