

40 Pesticides out of a multi-target screening method for 300 compounds

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Column: Synergi 4u Fusion-RP 80A

Dimensions: 50 x 2 mm ID

Order No: 00B-4424-B0

Elution Type: Gradient

Eluent A: H₂O + 5mM NH₄formateEluent B: CH₃OH + 5mM NH₄formate

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	80	20
	2	11	10	90
	3	23	10	90

Flow Rate: 0.2 mL/min

Col. Temp.: 20 °C

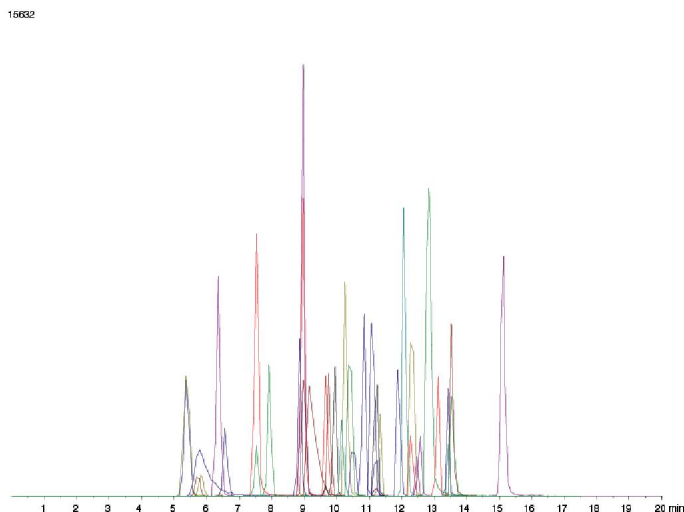
Detection: Mass Spectrometer (MS) (ambient)

Comment: Applied Biosystems/MDS Sciex 4000 QTRAP® LC/MS/MS system, Turbo V, source with TurbolonSpray® probe
 TEM = 450°C, IS= 5000V, Declustering Potential (DP) = 30V, Collision Energy (CE) = optimized for each compound

Positive polarity, Multiple Reaction Monitoring of 297 transitions (MRMs of example see table)

Information Dependent Acquisition of 3 Enhanced Product Ion spectra to confirm detected compound at CE = 20, 35, and 50V, Dynamic fill time to avoid linear ion trap saturation, Dynamic background subtraction to allow detection of co-eluting peaks, Mass spectral library searching

Products used in this Application:

ANALYTES:

- | | |
|--|----------------------------------|
| 1 Ethiofencarbsulfone (MRM: 275.0/107.0) | 5 Propamocarb (MRM: 189.2/102.1) |
| 2 Ethiofencarbsulfoxide (MRM: 242.0/107.0) | 6 Vamidithion (MRM: 288.1/146.0) |
| 3 Imidacloprid (MRM: 256.2/209.2) | 7 Dimethoate (MRM: 230.0/199.0) |
| 4 Cinosulfurone (MRM: 414.2/183.0) | 8 Carbendazim (MRM: 192.1/160.1) |

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- 9 Thiacloprid (MRM: 253.2/126.0)
- 10 Desmethyl-pirimicarb (MRM: 225.2/168.1)
- 11 Propoxur (MRM: 210.1/111.1)
- 12 Carbofuran (MRM: 222.2/165.2)
- 13 Desmethyl-formamido-pirimicarb (MRM: 253.0/72.0)
- 14 Thiophanate-methyl (MRM: 343.2/151.0)
- 15 Thiabendazole (MRM: 202.1/175.1)
- 16 Ethiofencarb (MRM: 226.1/107.0)
- 17 Pirimicarb (MRM: 239.2/182.3)
- 18 Thiodicarb (MRM: 355.1/88.1)
- 19 Atrazine (MRM: 216.2/174.0)
- 20 Metalaxyl (MRM: 280.2/220.2)
- 21 3,4,5 Trimethacarb (MRM: 194.1/137.0)
- 22 Diuron (MRM: 233.1/72.0)
- 23 Desmedipham (MRM: 318.1/182.1)
- 24 Azoxystrobin (MRM: 404.0/372.0)
- 25 Linuron (MRM: 249.1/182.1)
- 26 Methiocarb (MRM: 243.0/169.1)
- 27 Promecarb (MRM: 208.0/109.1)
- 28 Iprovalicarb (MRM: 321.0/119.0)
- 29 Metolachlor (MRM: 284.1/252.0)
- 30 Diflubenzurone (MRM: 311.1/158.0)
- 31 Tebufenozid (MRM: 353.2/133.0)
- 32 Tebuconazole (MRM: 308.0/70.1)
- 33 Cyprodinil (MRM: 226.0/93.1)
- 34 Spiroxamine (MRM: 298.1/144.1)
- 35 Haloxyfop-methyl (MRM: 376.0/316.1)
- 36 Haloxyfop-etotyl (MRM: 434.1/316.1)
- 37 Quizalofop-ethyl (MRM: 373.1/299.2)
- 38 Fluazifop-P-butyl (MRM: 384.1/282.1)
- 39 Furathiocarb (MRM: 383.1/195.1)
- 40 Fenpropimorph (MRM: 304.2/147.1)

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