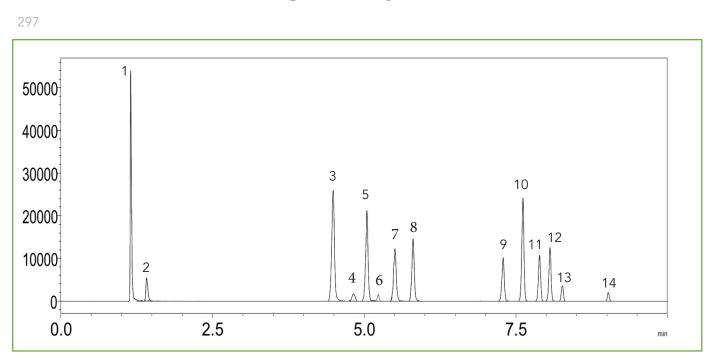


ENVIRONMENTAL

Pesticide Screening of Barley: HALO 90 Å LPH-C18



TEST CONDITIONS:

Column: HALO 90 Å LPH-C18 2 µm, 2.1 x 100 mm Part Number: 91822-616 Mobile Phase A: Water, 0.1% Formic Acid Mobile Phase B: Acetonitrile, 0.1% Formic Acid Gradient: Time %B 0.0 30 1.0 30 12.0 100 16.0 100 Flow Rate: 0.2 mL/min Pressure: 235 bar Temperature: 30 °C **Detection:** +ESI MS/MS Injection Volume: 2 µL Sample Solvent: Methanol MS System: Shimadzu 8040 LC System: Shimadzu Nexera X2

MS CONDITIONS:

Nebulizer Gas Flow: 3 L/min DL Temperature: 250 °C Heat Block Temperature: 400 °C Drying Gas Flow: 18 L/min

Pesticide screening methods can help show whether there is a concern with your soil, crops, and even water supply. A pesticide screening is performed on a sample of barley using a HALO 90 Å LPH-C18 column. This column is ideal for low pH testing conditions based on its sterically protected ligand which helps reduce acid hydrolysis of the stationary phase leading to an increase in column lifetime.

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| Peak # | Compound | Transition | CE |
|--------|-----------------|--------------|-----|
| 1 | Carbendazim | 192>160.1 | -21 |
| 2 | Dicrotophos | 238>112 | -22 |
| 3 | Azamethiphos | 324.9>183 | -17 |
| 4 | Pyrimethanil | 200.10>107.2 | -25 |
| 5 | Carbofuran | 222>123 | -22 |
| 6 | Dodemorph | 282.2>116.1 | -25 |
| 7 | Atrazine | 216.03>174.1 | -17 |
| 8 | Diuron | 232.94>72 | -17 |
| 9 | Iprovalicarb | 321.1>119 | -30 |
| 10 | Azoxystrobin | 404.04>372.1 | -14 |
| 11 | Fluopram | 396.98>208 | -25 |
| 12 | Methoxyfenozide | 369.1>149.1 | -25 |
| 13 | Flutolanil | 324>242.1 | -28 |
| 14 | Picoxystrobin | 368>145.1 | -25 |



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