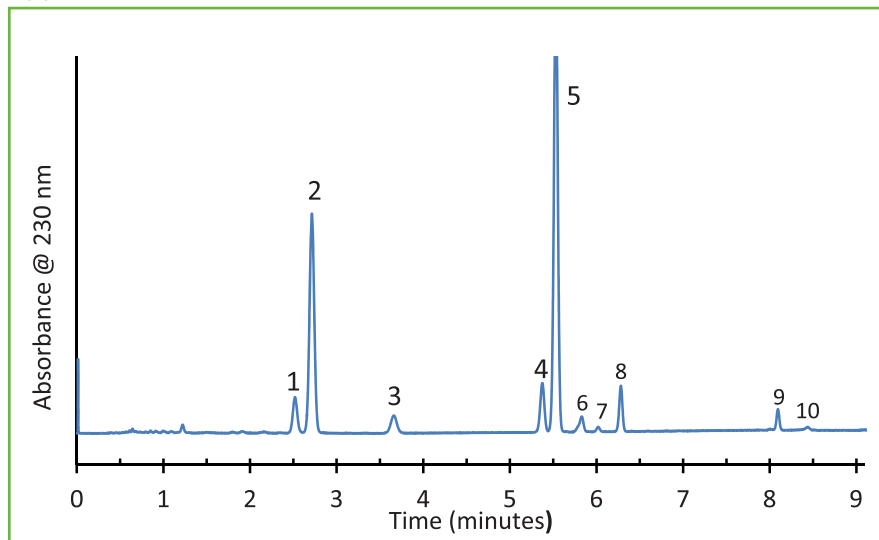




Separation of Six Pyrethrins on HALO® C18, 5 µm

Application Note 161-PS



PEAK IDENTITIES:

1. Cinerin II
2. Pyrethrin II
3. Jasmolin II
4. Cinerin I
5. Pyrethrin I
6. Unknown
7. Unknown
8. Jasmolin I
9. Unknown
10. Unknown

Pyrethrins are potent insecticides that affect the nervous systems of insects. These six pyrethrin isomers can be separated rapidly using a HALO® 5 µm C18 column with low back pressure and good resolution.

TEST CONDITIONS:

Column: HALO 90 Å C18, 5 µm,
3.0 x 150 mm

Part Number: 95813-702

Mobile Phase:

A: Water

B: Acetonitrile

Gradient: Time (min)	% B
0.0	60
3.0	60
5.0	72
7.0	90
9.0	90

Flow Rate: 1.1 mL/min

Pressure: 170 bar

Temperature: 30 °C

Detection: UV 230 nm, VWD

Injection Volume: 3.0 µL

Sample Solvent: Acetonitrile

Response Time: 0.02 sec

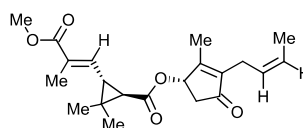
Data Rate: 17 Hz

Flow Cell: 2.5 µL semi-micro

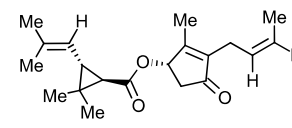
LC System: Shimadzu Prominence UFLC XR

Extra Column Volume: ~14 µL

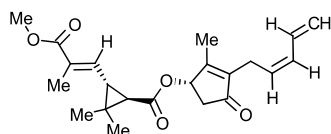
STRUCTURES:



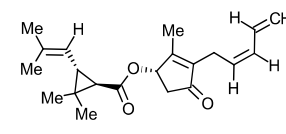
Cinerin II



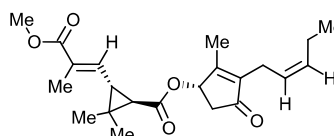
Cinerin I



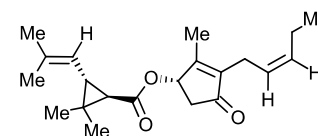
Pyrethrin II



Pyrethrin I



Jasmolin II



Jasmolin I

