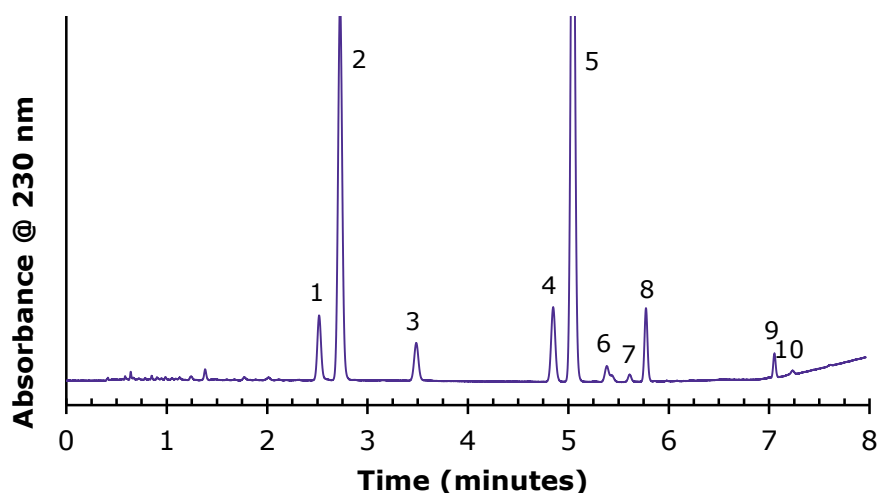




# U/HPLC Analysis of Pyrethrins on Ascentis® Express AQ-C18, 2.7 µm



Peak Number	Compound
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

## Conditions:

**column:** Ascentis® Express AQ-C18, 10 cm x 3 mm I.D., 2.7 µm

**mobile phase:** [A] 0.02 M sodium phosphate buffer, pH 3.0; [B] Acetonitrile

**gradient:** Hold at 65% B for 2.5 min; 65% B to 75% B in 2.5 min; 75% B to 90% B in 1 min; hold at 90% B for 2 min

**flow rate:** 2.2 mL/min

**column temp.:** 30 °C

**detector:** UV, 230 nm

**injection:** 4 µL

**sample:** Pyrethrins, varied concentration, acetonitrile

## Description:

Pyrethrins are naturally occurring compounds found in chrysanthemum flowers and have powerful insecticidal properties. They act by paralyzing the nervous system of insects, causing them to die. They are an ideal insecticide because they are safer for humans than most synthetic alternatives. The Ascentis® Express AQ-C18 is ideal for separations of these compounds, providing good peak shape and resolution.

## Materials:

Product Part Number	Description
577330-U	Ascentis® Express AQ-C18, 10 cm x 3 mm I.D., 2.7 µm
34851	Acetonitrile
52074	Sodium phosphate monobasic
795410	Sodium phosphate dibasic