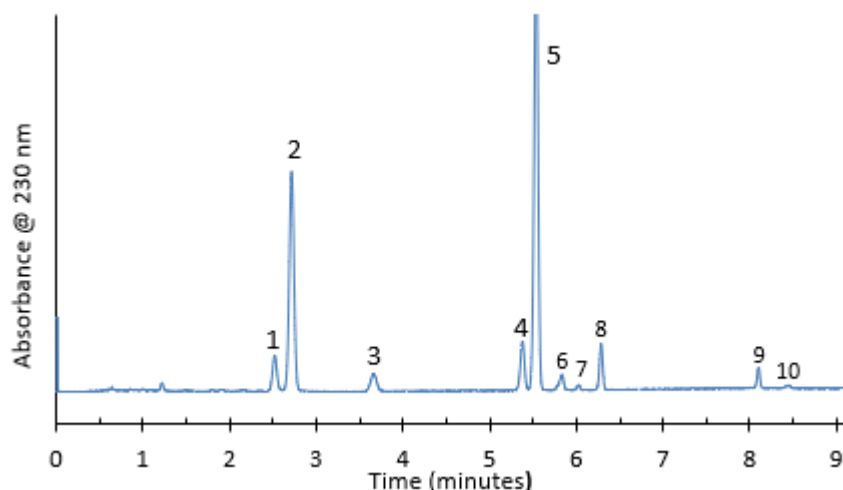




# HPLC Analysis of Pyrethrins on Ascentis® Express C18, 5 µm



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 C18, 15 cm x 3 mm I.D., 5 µm

**mobile phase:** [A] Water; [B] Acetonitrile

**gradient:** Hold at 60% B for 3 min; 60% B to 72% B in 2 min; 72% B to 90% B in 2 min; hold at 90% B for 2 min

**flow rate:** 1.1 mL/min

**column temp.:** 30 °C

**detector:** UV, 230 nm

**injection:** 3 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 C18 column provides a fast separation of six pyrethrin isomers with good resolution and a low back pressure of 170 bar.

## Materials:

Product Part Number	Description
50527-U	Ascentis® Express C18, 15 cm x 3 mm I.D., 5 µm
34851	Acetonitrile
270733	Water