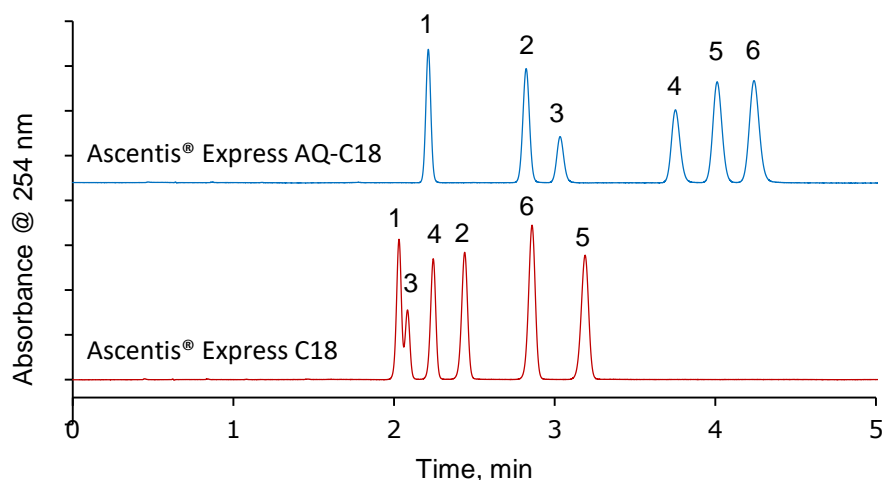




HPLC Analysis of Polar Compounds on Ascentis® Express C18 and AQ-C18, 2.7 µm



Peak Number	Compound
1	Cinnamyl alcohol
2	4-Bromoacetanilide
3	Nitrobenzene
4	3,4-Dinitrotoluene
5	Anisole
6	2,4-Dinitrotoluene

Conditions:

column: Ascentis® Express AQ-C18, 10 cm x 4.6 mm I.D., 2.7 µm;
Ascentis® Express C18, 10 cm x 4.6 mm I.D., 2.7 µm

mobile phase: [A] Water, [B] Methanol; 50:50 A:B isocratic

flow rate: 1.3 mL/min

column temp.: 35 °C

detector: UV, 254 nm

injection: 1 µL

sample: Polar compounds, varied concentration, methanol

Description:

This separation of polar compounds highlights the difference between the Ascentis® Express AQ-C18 and the Ascentis® Express C18 columns. Compared to the C18, the AQ-C18 has increased retention and provides better resolution for polar compounds. Another advantage of the AQ-C18 is its resistance to dewetting when using higher concentrations of aqueous mobile phase.

Materials:

Product Part Number	Description
577336-U	Ascentis® Express AQ-C18, 10 cm x 4.6 mm I.D., 2.7 µm
53827-U	Ascentis® Express C18, 10 cm x 4.6 mm I.D., 2.7 µm
270733	Water
34860	Methanol
108197	Cinnamyl alcohol
161659	4-Bromoacetanilide
252379	Nitrobenzene
148121	3,4-Dinitrotoluene
96109	Anisole
101397	2,4-Dinitrotoluene