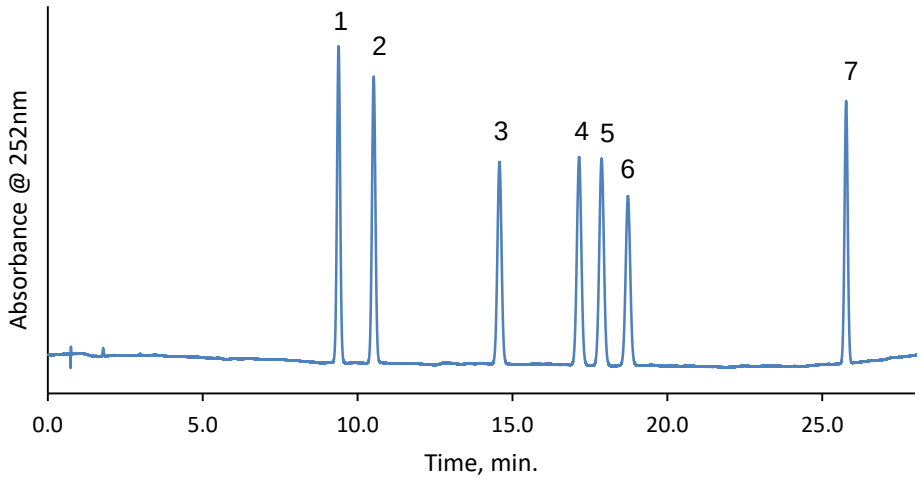
HPLC Analysis of Parabens on Ascentis® Express C18, 2.7 µm



Peak Number	Compound	Concentration µg/mL
1	Isopropyl paraben	71
2	Propyl paraben	71
3	Phenyl paraben	71
4	Isobutyl paraben	71
5	Butyl paraben	71
6	Benzyl paraben	71
7	Pentyl paraben	71

Conditions:

column: Ascentis® Express C18, 10 cm x 4.6 mm I.D., 2.7 µm
mobile phase: [A] Water; [B] Methanol
gradient: 40% B to 55% B in 23 min; 55% B to 70% B in 5 min
flow rate: 1.2 mL/min
column temp.: 30 °C
detector: UV, 252 nm
injection: 1.5 µL
sample: Parabens, 71 µg/mL, 50:50 methanol:water

Description:

Parabens are used as preservatives for cosmetics and pharmaceuticals, primarily for their antifungal and antibacterial properties. There are some health and environmental concerns surrounding these compounds due to their ability to act as endocrine disruptors, but more research is needed. The Ascentis® Express C18 column is an ideal choice for paraben separations, providing excellent peak shape and resolution.

Materials:

Product Part Number	Description
53827-U	Ascentis® Express C18, 10 cm x 4.6 mm I.D., 2.7 µm
05828	Isopropyl paraben
P53357	Propyl paraben
90668	Phenyl paraben
715077	Isobutyl paraben
W220302	Butyl paraben
380709	Benzyl paraben
90744	Pentyl paraben
34860	Methanol
270733	Water

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