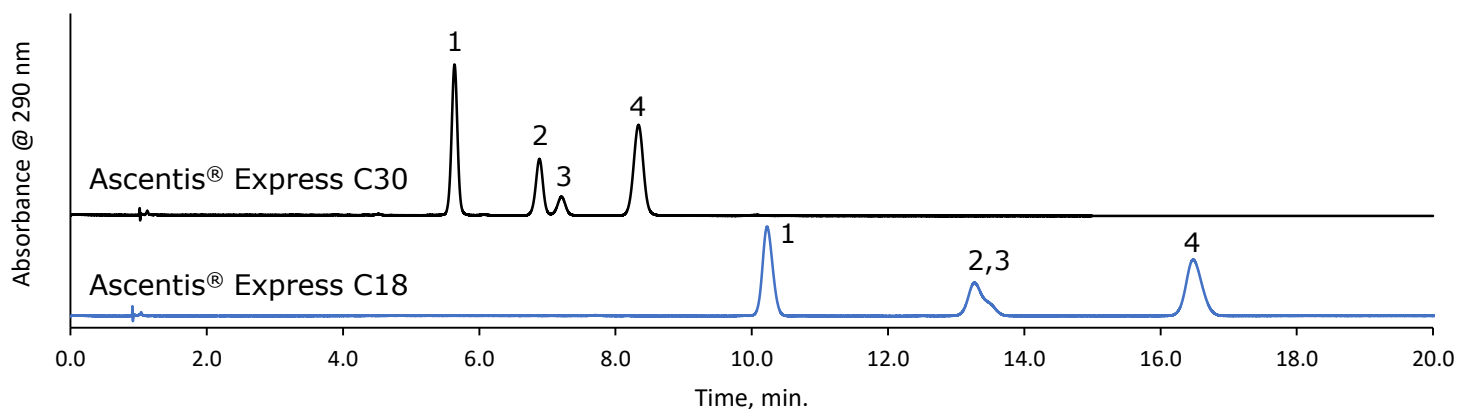




HPLC Analysis of Tocopherols on Ascentis® Express C30, 2.7 µm



Conditions:

column: Ascentis® Express C30, 15 cm x 4.6 mm I.D., 2.7 µm

mobile phase: [A] Water; [B] Methanol; (5:95 A:B)

flow rate: 1.5 mL/min

column temp.: 10 °C

detector: UV, 290 nm

injection: 1.5 µL

sample: Tocopherols, varied concentration, in ethanol or methanol

Peak Number	Compound
1	Delta tocopherol
2	Gamma tocopherol
3	Beta tocopherol
4	Alpha tocopherol

Description:

Tocopherols are a group of compounds that comprise Vitamin E, a fat soluble vitamin with antioxidant properties. Vitamin E is found in many foods including leafy vegetables and is important in the stabilization of cell membranes. It can also be used topically in the form of cosmetics. The Ascentis® Express C30 is ideal for the separation of hydrophobic compounds such as these due to its increased shape selectivity compared to C18. The C30 achieves the separation with better resolution in approximately half the run time compared to C18.

Materials:

Product Part Number	Description
577136-U	Ascentis® Express C30, 15 cm x 4.6 mm I.D., 2.7 µm
47784	Delta tocopherol
47785	(+)-Gamma tocopherol
46401-U	<i>rac</i> -Beta tocopherol solution, 50 mg/mL, hexane
258024	Alpha tocopherol
34860	Methanol
1.11727	Ethanol
270733	Water