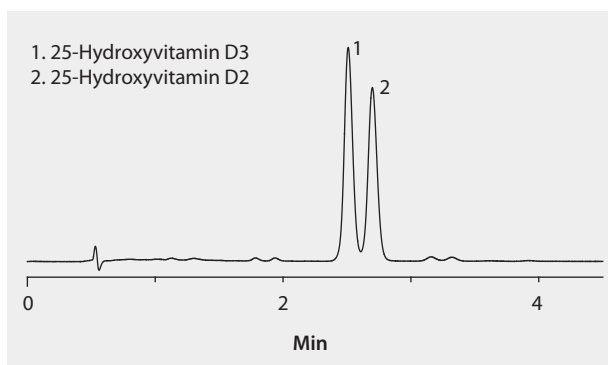


LC/MS Analysis of 25-Hydroxyvitamin D₂ and 25-Hydroxyvitamin D₃ on Ascentis® Express F5

The 25-OH forms of the secosteroids vitamin D₂ and D₃ are indicators of the vitamin D status of an individual. However, because they have different biological activity and clinical interest, they should be distinguishable. The Ascentis Express F5 phase was able to resolve the two compounds under highly LC-MS/MS compatible conditions. Fluka LC-MS Ultra CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus	Clinical; Vitamins, Nutraceuticals, and Natural Products
column	Ascentis Express F5, 10 cm x 2.1 mm I.D., 2.7 µm particles (53569-U)
mobile phase	5 mM ammonium formate in methanol:water (75:25)
flow rate	0.4 mL/min
detector	UV, 265 nm (MS, ESI(+), m/z 100-1000)
column temp.	40 °C
injection	1 µL
sample	20 µg/mL in methanol
Application No.	G005858



Related Products

analytical column

Ascentis® Express F5, 2.7 Micron HPLC Column ([Supelco 53569-U](#))

mobile phase component

Ammonium formate ([Fluka 14266](#))

Methanol ([Fluka 14262](#))

Water ([Fluka 14263](#))

standard

25-Hydroxyvitamin D₂ solution ([Cerilliant H-087](#))

25-Hydroxyvitamin D₃ solution ([Cerilliant H-083](#))