

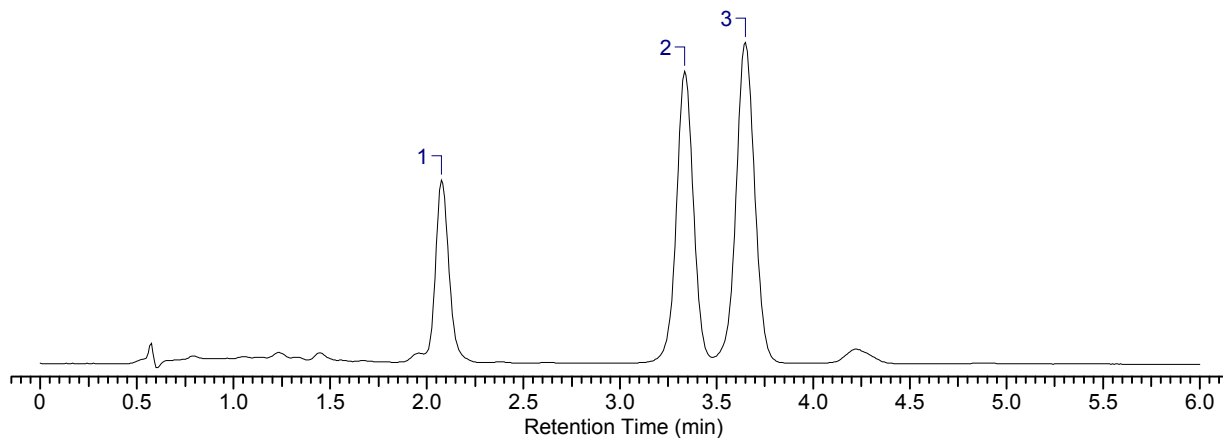
Application Report

Analysis of 25-dihydroxyvitamin D₂, 25-hydroxyvitamin D₃ and 3-epi-25-hydroxyvitamin D₃ on Ascentis Express F5

Bonded Phase pentafluorophenylpropyl
Column Name Ascentis Express F5
Instrument Name Dionex Ultimate

Key Words

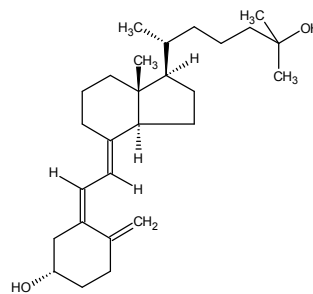
Ascentis Express F5, 53569-U, 60133-18-8, 73809-05-9, 63283-36-3



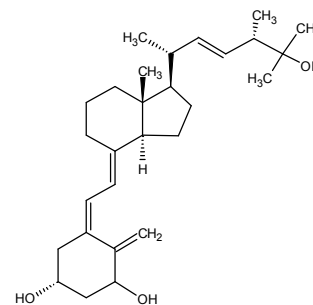
Conditions

column: Ascentis Express F5, 10 cm x 2.1 mm I.D.
2.7 μm particles (53569-U)
mobile phase A: 5 mM ammonium formate (75:25 methanol:water)
flow rate: 0.4 mL/min.
initial pressure: 290 bar
temp.: 30 °C
det.: UV 265 nm
injection: 1 μL
sample: 500 μg /mL in methanol

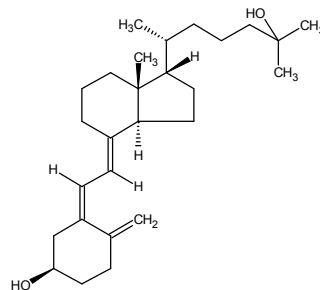
Structures



Monoisotopic Mass = 400.334131 Da
Molecular Formula = C₂₇H₄₄O₂



Monoisotopic Mass = 428.334131 Da
Molecular Formula = C₂₈H₄₆O₃



Monoisotopic Mass = 400.334131 Da
Molecular Formula = C₂₇H₄₄O₂

Peak IDs

No.	Name	tR
1	25-dihydroxyvitamin D ₂	2.1
2	25-hydroxyvitamin D ₃	3.3
3	epi-25-hydroxyvitamin D ₃	3.7