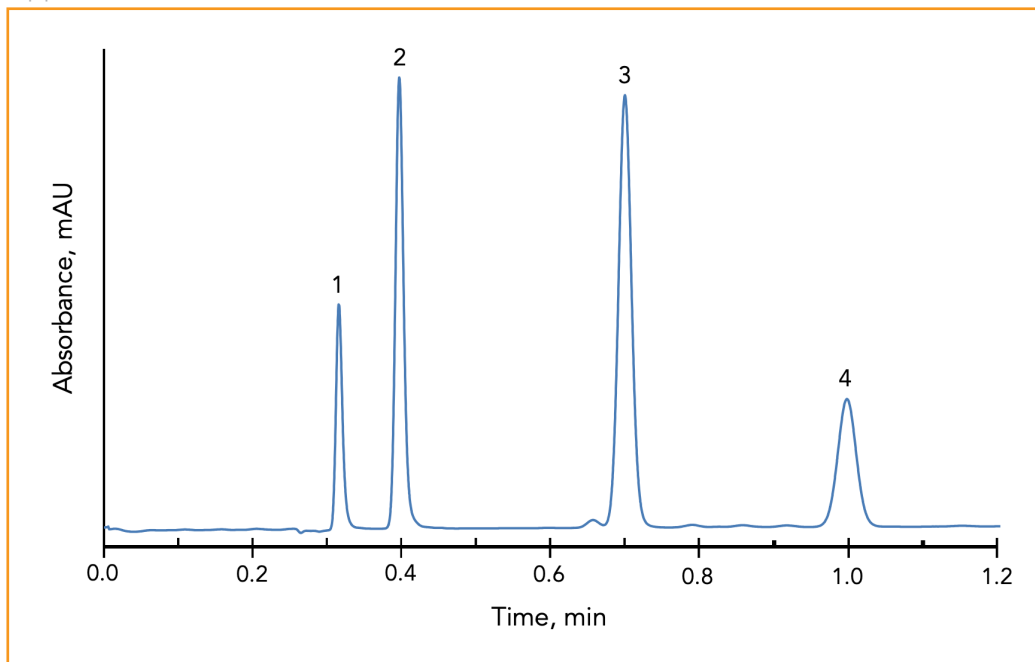




Separation of Statin Drugs on HALO® C8

Application Note 43-ST



PEAK IDENTITIES:

1. Pravastatin
2. Atorvastatin
3. Mevastatin
4. Simvastatin

The statin drugs are widely used to reduce the levels of cholesterol in the blood, thereby reducing the risk of cardiovascular disease and stroke. In this separation, four common statin drugs are analyzed on an efficient HALO® C8 column in about one minute.

TEST CONDITIONS:

Column: HALO 90 Å C8, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-408

Mobile Phase: 20/80 - A/B

A: 0.02 M formic acid in water

B: 0.02 M formic acid in methanol

Flow Rate: 2.0 mL/min

Pressure: 240 bar

Temperature: 30 °C

Detection: UV 240 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Mobile phase

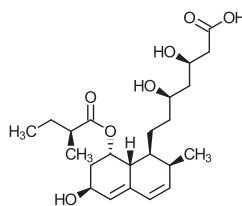
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

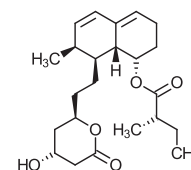
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

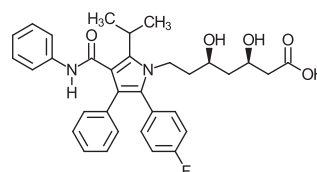
STRUCTURES:



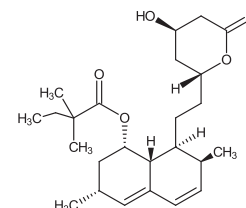
Pravastatin



Mevastatin



Atorvastatin



Simvastatin

