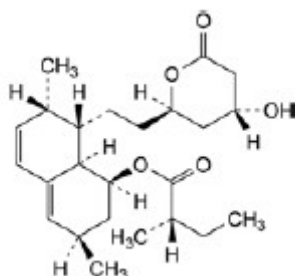


1.11 Lovastatin

European Pharmacopoeia 7.0, 2384-2385

Requirements: Resolution factor (R) for lovastatin and simvastation should be > 5.

Lovastatin



Column:

Venusil ASB C8, 4.6 ×250 mm

Venusil XBP C8(L), 4.6×250mm

Mobile Phase A: 0.1% H₃PO₄ aq., B: Acetonitrile

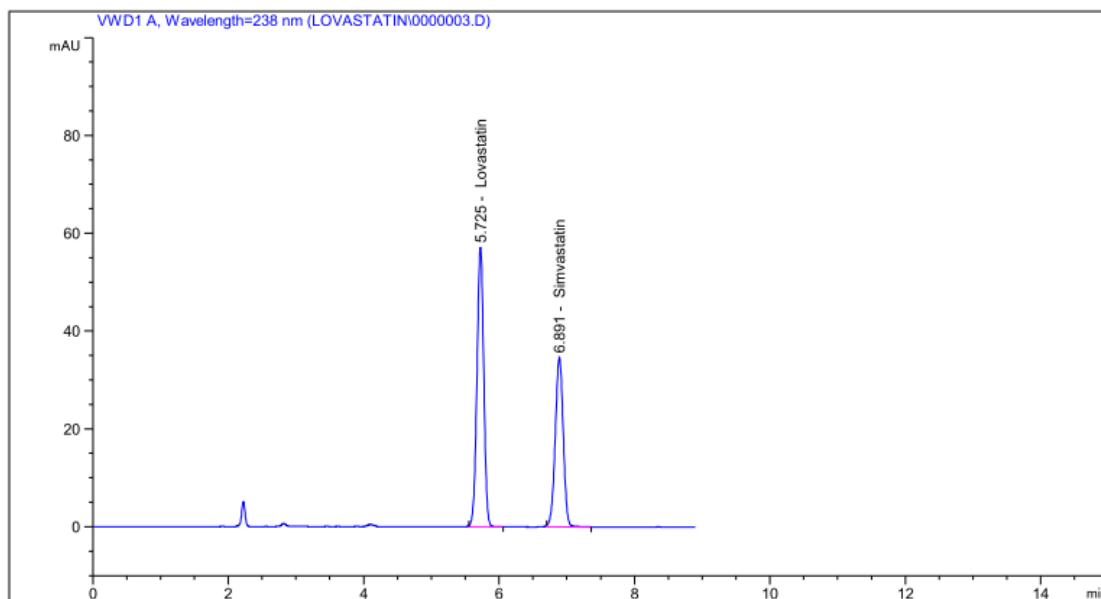
Time (min)	Mobile Phase A (%)	Mobile Phase B (%)
0-7	40	60
7-9	40→35	60→65
9-15	35→10	65→90
15-20	10	90

Detector: UV 238 nm

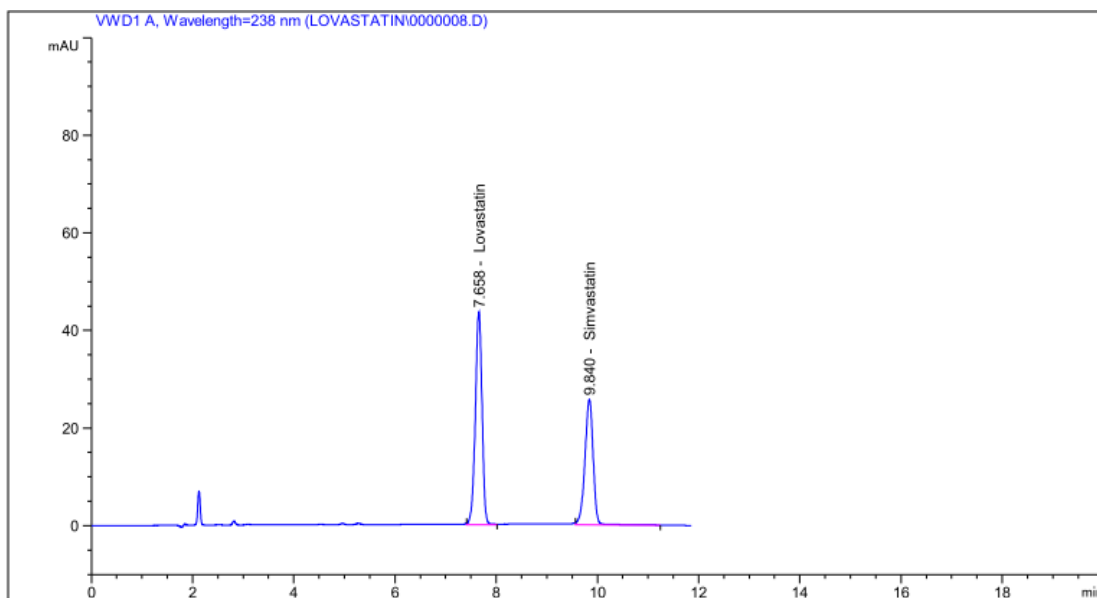
Column Temperature: 35 °C

Flow Rate: 1.5 mL/min

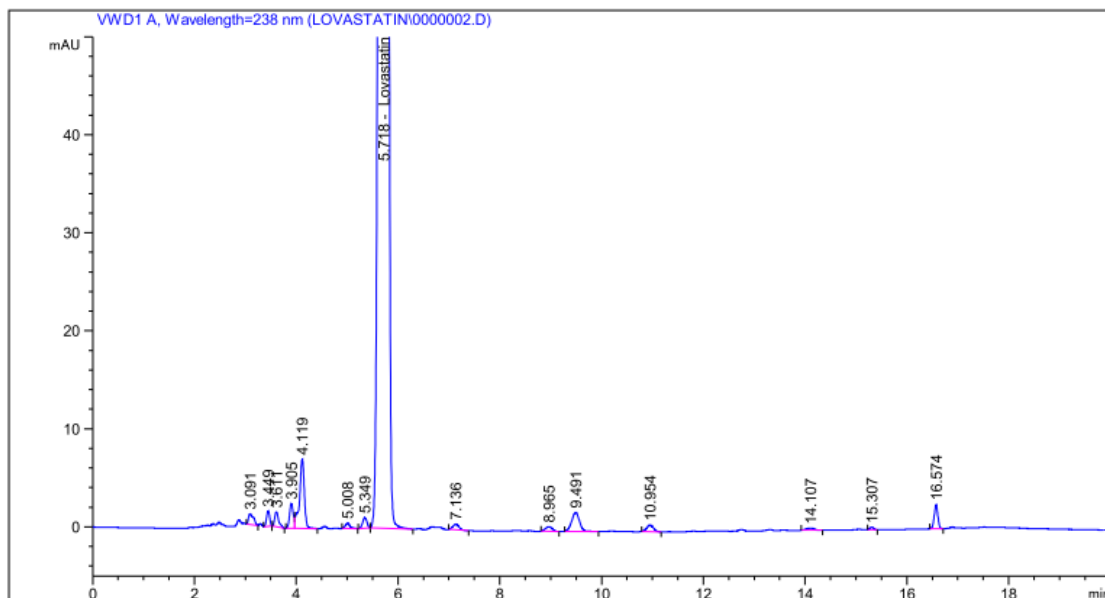
Sample Loading: 10 µl



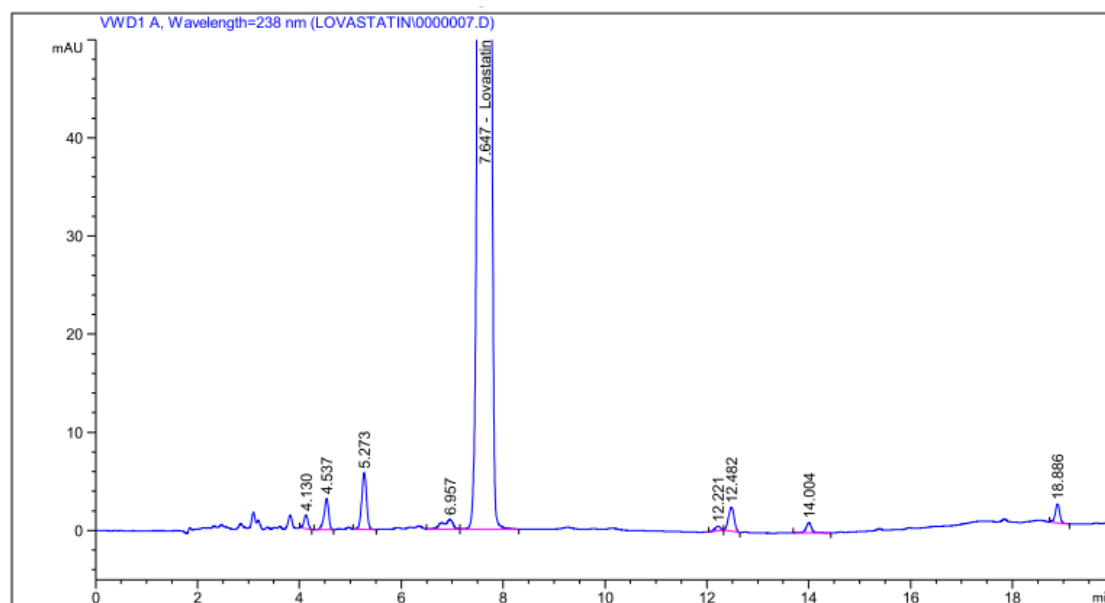
Chromatogram of system suitability test(ASB C8)



Chromatogram of system suitability test(Venusil XBP C8(L))



Profile of lovastatin and simvastatin sample (Venusil ASB C8)



Profile of lovastatin and simvastatin sample(Venusil XBP C8(L))

	Venusil ASB C8	Venusil XBP C8(L)
Rt (min) of lovastatin	5.725	7.658
Rt (min) of simvastatin	6.891	9.840
Reslution	5.87	8.13
Plate counts (for lovastatin)	15754	16053