

## Assay analysis for Limit of Lovastatin Related Compound-A (USP 38 method):

### SAMPLE PREPARATION:

**System Suitability Solution:** Dissolve accurately weighed quantities of lovastatin and lovastatin related compound-A in acetonitrile and dilute quantitatively to obtain a solution having known concentration of 2.0 µg/ml

**Standard solution:** Dissolve accurately weighed quantities of lovastatin in acetonitrile and dilute quantitatively to obtain the solution having a known concentration of 2.0 µg/ml.

### CHROMATOGRAPHIC CONDITIONS:

**Instrument:** UltiMate 3000 LC

**Column:** Synchronis C8 (4.6\*250mm, 5µm, p/n 97205-254630, lot no.:12105)

**Mobile phase:** Mixture of Acetonitrile and 0.01M Phosphoric Acid (13:7 v/v).

**Separation Mode:** Isocratic

**Column temperature:** 40°C

**Flow rate:** 1.5 mL/min

**Injection Volume:** 10 µl

**Detector wavelength:** UV 200nm

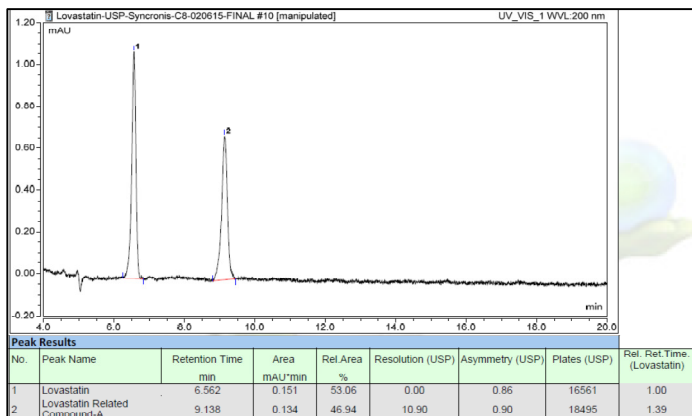
**Run Time:** 20 min

### System Suitability Results:

Sr. No.	Parameters	USP Criteria	Obtained Results
1	Resolution b/w Lovastatin and Lovastatin Related Compound-A	NLT 6.0	10.90
2	RRT of lovastatin related compound A with respect to Lovastatin	About 1.3	1.39
3	% RSD for replicate injection of standard solution	NMT 5.0%	0.9%

### CHROMATOGRAMS:

#### System Suitability:



#### Standard Solution:

