

Assay Analysis for Cefalexin (EP- method):

SAMPLE PREPARATION:

Reference solution-a: Dissolve 50 mg of Cefalexin monohydrate in water and dilute to 100 ml with water.

Reference solution-b: Dissolve 10 mg of Cefradine in 20 ml of reference solution (a) and dilute to 100 ml with water.

CHROMATOGRAPHIC CONDITIONS:

Instrument: UltiMate 3000 LC

Column: Acclaim 120-C18 (4.6*250mm, 5 um, p/n 059149, lot no.:018-01-152)

Mobile phase A: Methanol: Acetonitrile: 13.6gm/l solution of potassium Dihydrogen phosphate: Water (2:5:10:83 v/v/v/v)

Separation Mode: Isocratic

Column temperature: 25°C

Flow rate: 1.5 mL/min

Injection Volume: 20 µl

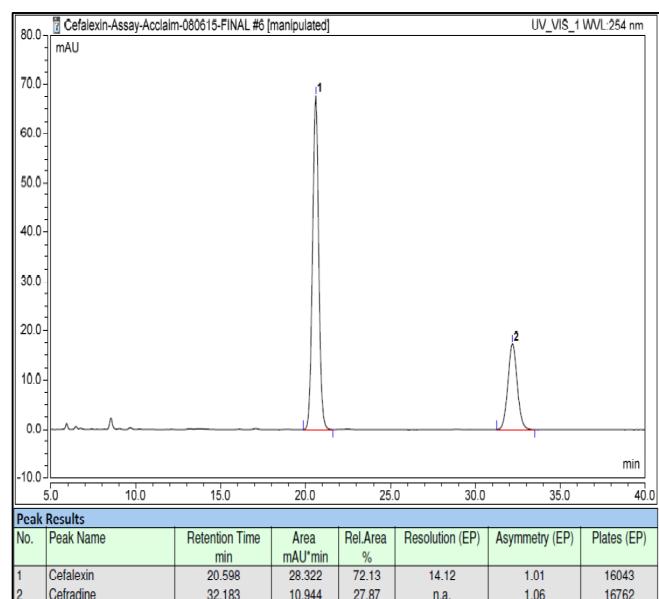
Detector wavelength: UV 254nm

Run Time: 40 min

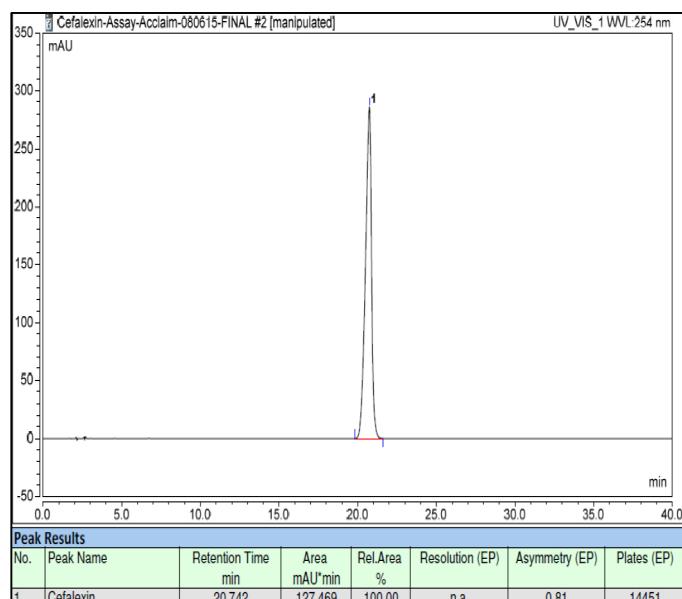
System Suitability Results:

Sr. No.	Parameters	EP Criteria	Obtained Results
1	Resolution between Cefalexin and Cefradine	Minimum 4.0	14.12

CHROMATOGRAMS:



Reference solution –b (System Suitability)



Reference solution-a