

## Impurities test for Levofloxacin (USP-38 method):

### SAMPLE PREPARATION:

**System Suitability Solution:** 1 mg/ml of Levofloxacin in Mobile Phase.

**Sensitivity solution:** 0.3 µg/ml of Levofloxacin in Mobile Phase.

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### CHROMATOGRAPHIC CONDITIONS:

**Instrument:** UltiMate 3000 LC

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

**Buffer:** 8.5gm/lit of ammonium acetate, 1.25 gm/lit of cupric sulphate pentahydrate and 1.3gm/lit of L-Isoleucine in water

**Mobile phase:** 3:7 (Methanol: Buffer).

**Separation Mode:** Isocratic

**Column temperature:** 45°C

**Flow rate:** 0.8 mL/min

**Injection Volume:** 25 µl

**Detector wavelength:** UV 360 nm

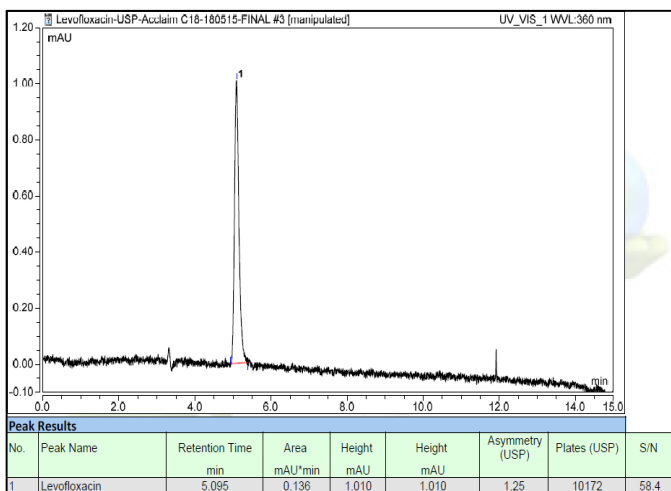
**Run Time:** 15min

### System Suitability Results:

Sr. No.	Parameters	USP Criteria	Obtained Results
1	Relative standard deviation for System suitability solution	NMT 1.0%	0.06%
2	Signal to noise ratio for sensitivity solution	NLT 10	58.4

### CHROMATOGRAMS:

**Sensitivity Solution:**



**Impurity Mix:**

