

Impurities test for Metronidazole (USP 38 method):

SAMPLE PREPARATION:

Standard solution (System Suitability): 1ug/ml of Metronidazole + 2ug/ml of Tinidazole Related compound-A in Mobile Phase.

Sample solution: 1.0 mg/ml of Metronidazole in Mobile Phase.

CHROMATOGRAPHIC CONDITIONS:

Instrument: UltiMate 3000 LC

Column: Acclaim 120 C8 (4.6*150mm, 5um, p/n 059140, lot no.: 018-01-158)

Mobile phase: Methanol: Water (1:4) Took 200ml of Methanol and added 800ml of Deionized water, mixed well.

Separation Mode: Isocratic

Column temperature: 30°C

Flow rate: 1.0 mL/min

Injection Volume: 30 µl

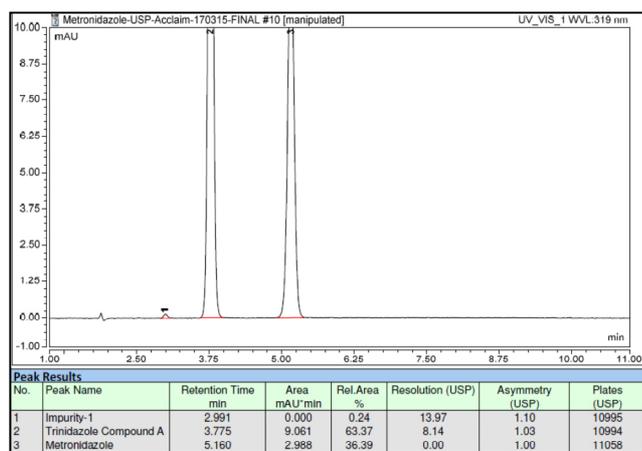
Detector wavelength: UV319 nm

System Suitability Results:

Sr. No.	Parameters	USP Criteria	Obtained Results
1	Resolution b/w Tinidazole compound A and Metronidazole	NLT 2.0	8.14
2	Tailing Factor for Metronidazole peak	NMT 2.0	1.0

CHROMATOGRAMS:

System Suitability:



Impurity Mix:

