

Impurities test for Trimethoprim (USP-38 method):

SAMPLE PREPARATION:

Test Solution: Transfer about 25 mg of Trimethoprim to 25 ml volumetric flask, dissolve and dilute with mobile phase to volume.

Resolution solution: Dissolve accurately weighed quantity of Trimethoprim and Diaveridine and dilute quantitatively with mobile phase to obtain solution of 10 µg per ml and 5µg/ml respectively.

CHROMATOGRAPHIC CONDITIONS:

Instrument: UltiMate 3000 LC

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

Buffer solution: 10mM Sodium perchlorate solution in water adjust pH to 3.6 with phosphoric acid

Mobile phase: Prepare a mixture of Buffer solution and Methanol (7:3).

Separation Mode: Isocratic

Column temperature: 25°C

Flow rate: 1.3 mL/min

Injection Volume: 20 µl

Detector wavelength: UV280 nm

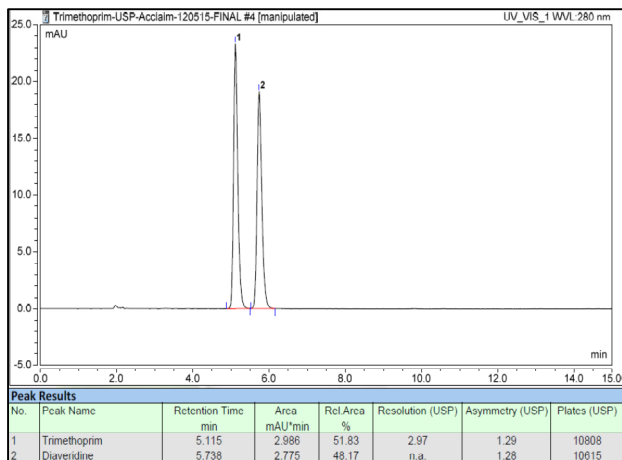
Run Time: 55min

System Suitability Results:

Sr. No.	Parameters	USP Criteria	Obtained Results
1	Resolution between Trimethoprim and Diaveridine	NLT 2.5	2.97

CHROMATOGRAMS:

System Suitability:



Impurity Mix:

