Government of Nepal
Ministry of Health and Population
Department of Drug Administration
National Medicines Laboratory
Quality and Method Validation Section

Analytical Profile of Norfloxacin Solution

Analytical Profile No.: Norflo S 082/083 AP 180

Norfloxacin Solution contains not less than 90.0% and not more than 110.0% of the stated amount of Norfloxacin.

Usual Strength: 20% W/V

1. Identification:

In the assay, the absorbance of the sample solution is the maximum at about 277 nm, and its spectrum corresponds to the spectrum of the reference solution.

2. Assay: *Determine by UV Spectrophotometry*

2.1 Test solution: Weigh the sample solution equivalent to 50 mg of Norfloxacin in a 100 ml dry volumetric flask, add 70 ml of 0.1 M Hydrochloric acid, and dissolve. Make up the volume with the same solvent, and mix. Dilute 1 ml of the resulting solution to 100 ml with 0.1 M Hydrochloric acid.

2.2 Standard solution: Weigh accurately about 50 mg of Norfloxacin RS in a 100 ml dry volumetric flask, add 70 ml of 0.1 M Hydrochloric acid, and dissolve. Make up the volume with the same solvent, and mix. Dilute 1 ml of the resulting solution to 100 ml with 0.1 M Hydrochloric acid.

2.3 Procedure: Measure the absorbance of both the standard and test solution at the maximum at about 277 nm against 0.1 M Hydrochloric acid as a blank. Calculate the content of Norfloxacin in the solution.

3. Other tests: As per Pharmacopoeial requirements.