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

Analytical profile of Enrofloxacin Tablets (Veterinary)

Analytical Profile No.: Enro 080/81/AP 142

Enrofloxacin Tablets contains not less than 90.0% and not more than 110.0% of the stated amount of Enrofloxacin.

Usual Strength: 150 mg

1. Identification:

The solution prepared for assay exhibits maxima at 277 nm when scanned in the range 200 nm to 400 nm.

2. Assay: *Determine by UV Spectrometry*

2.1 Test solution: Finely Powder 20 tablets. Transfer a portion of powder, nominally equivalent to 45 mg (about 240 mg) of Enrofloxacin to a 100 ml volumetric flask. Add 60 ml of 0.1M Hydrochloric acid, sonicate for 10 minutes and make up the volume with the same solvent. Filter and dilute 1 ml of the resulting solution to 100 ml with 0.1 M hydrochloric acid.

2.2 Reference solution: Weigh accurately about 45 mg of Enrofloxacin working standard, dissolve in 60 ml of 0.1M hydrochloric acid and make up the volume with same solvent. Dilute 1 ml of the resulting solution to 100 ml with 0.1 M hydrochloric acid.

2.3 Procedure: Measure the absorbance of both test solution and reference solution at the maximum about 277 nm and calculate the result by comparison.

3. Other tests: As per pharmacopoeial requirements.