

Contains Nonbinding Recommendations

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Draft Guidance on Ciprofloxacin

October 2024

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Active Ingredient: Ciprofloxacin

Dosage Form: For suspension

Route: Oral

Strengths: 250 mg/5 mL, 500 mg/5 mL

Recommended Study: One in vivo bioequivalence study with pharmacokinetic endpoints

1. Type of study: Fasting
Design: Single-dose, two-treatment, two-period crossover in vivo
Strength: 500 mg/5 mL
Subjects: Healthy males and non-pregnant, non-lactating females
Additional comments: None

Analyte to measure: Ciprofloxacin in plasma

Bioequivalence based on (90% CI): Ciprofloxacin

Waiver request of in vivo testing: 250 mg/5 mL strength based on (i) acceptable bioequivalence study on the 500 mg/5 mL strength, (ii) acceptable dissolution testing of both strengths, and (iii) proportional similarity of the formulations between both strengths

Dissolution test method and sampling times: The dissolution information for this drug product can be found in the FDA's Dissolution Methods database, <http://www.accessdata.fda.gov/scripts/cder/dissolution>. Conduct comparative dissolution testing on 12 dosage units for each of both strengths of the test product and reference listed drug (RLD).¹ Specifications will be determined upon review of the abbreviated new drug application.

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¹ If the RLD is not available, refer to the most recent version of the FDA guidance for industry on *Referencing Approved Drug Products in ANDA Submissions*.