

## Guidance on Ciprofloxacin

This guidance represents the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the Office of Generic Drugs.

**Active ingredient:** Ciprofloxacin

**Form/Route:** Suspension/Oral

**Recommended studies:** 2 studies

1. Type of study: Fasting  
Design: Single-dose, two-way, crossover *in-vivo*  
Strength: 500 mg/5 ml  
Subjects: Healthy males and nonpregnant females, general population.  
Additional Comments:

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2. Type of study: Fed  
Design: Single-dose, two-way, crossover *in-vivo*  
Strength: 500 mg/5 ml  
Subjects: Healthy males and nonpregnant females, general population.  
Additional comments:

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**Analytes to measure:** Ciprofloxacin in plasma

**Bioequivalence based on (90% CI):** Ciprofloxacin

**Waiver request of in-vivo testing:** 250 mg/5 ml based on (i) acceptable bioequivalence studies on the 500 mg/5 ml strength, (ii) acceptable dissolution testing across all strengths, and (iii) proportional similarity in the formulations across all strengths.

**Dissolution test method and sampling times:**

Please note that a **Dissolution Methods Database** is available to the public at the OGD website at <http://www.accessdata.fda.gov/scripts/cder/dissolution/>. Please find the dissolution information for this product at this website. Please note that a dosage unit is based on the labeled concentration of the suspension product. Please use the dosage unit (5 ml). A total of 12 units from 12 different bottles should be used. Specifications will be determined upon review of the application.