

## Draft Guidance on Diphenhydramine Citrate and Ibuprofen

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA, or the Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the Office of Generic Drugs.

**Active Ingredient:** Diphenhydramine citrate; Ibuprofen

**Dosage Form; Route:** Tablet; oral

**Recommended Studies:** Two studies

1. Type of study: Fasting  
Design: Single-dose, two-treatment, two-period crossover in vivo  
Strength: 38 mg; 200 mg  
Subjects: Males, non-lactating and non-pregnant females, general population  
Additional comments: None

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2. Type of study: Fed  
Design: Single-dose, two-treatment, two-period crossover in vivo  
Strength: 38 mg; 200 mg  
Subjects: Males, non-lactating and non-pregnant females, general population  
Additional comments: None

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**Analytes to measure (in appropriate biological fluid):** Diphenhydramine and Ibuprofen in plasma

**Bioequivalence based on (90% CI):** Diphenhydramine and Ibuprofen

**Waiver request of in vivo testing:** Not applicable

**Dissolution test method and sampling times:** The dissolution information for this drug product can be found on the FDA-Recommended Dissolution Methods web site, available to the public at the following location: <http://www.accessdata.fda.gov/scripts/cder/dissolution/>. Conduct comparative dissolution testing on 12 dosage units each of all strengths of the test and reference products. Specifications will be determined upon review of the abbreviated new drug application.