

Guidance on Hydrocodone bitartrate; Ibuprofen

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Active Ingredient: Hydrocodone bitartrate; Ibuprofen

Dosage Form; Route: Tablet; oral

Recommended Studies: Two studies

1. Type of study: Fasting
Design: Single-dose, two-way crossover in vivo
Strength: 7.5 mg/200 mg
Subjects: Healthy males and nonpregnant females, general population.
Additional Comments:

2. Type of study: Fed
Design: Single-dose, two-way crossover in vivo
Strength: 7.5 mg/200 mg
Subjects: Healthy males and nonpregnant females, general population
Additional Comments:

Analytes to measure (in appropriate biological fluid): Hydrocodone and ibuprofen in plasma

Bioequivalence based on (90% CI): Hydrocodone and ibuprofen

Waiver request of in vivo testing: 2.5 mg/200 mg, 5 mg/200 mg, and 10 mg/200 mg tablets are eligible based on (i) acceptable bioequivalence studies on the 7.5 mg/200 mg strength, (ii) proportional similarity of the formulations across all strengths, and (iii) acceptable in vitro dissolution testing of all strengths.

Suitability petitions should be submitted for strengths (Eq 2.5 mg/200 mg, 5 mg/200 mg, and 10 mg/200 mg) which the reference product does not contain.

Dissolution test method and sampling times: The dissolution information for this drug product can be found on the FDA-Recommended Dissolution Methods website, 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 (ANDA).