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Draft Guidance on Phentermine Hydrochloride

October 2024

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Active Ingredient: Phentermine hydrochloride

Dosage Form: Tablet, orally disintegrating

Route: Oral

Strengths: 15 mg, 30 mg, 37.5 mg

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: 37.5 mg
   Subjects: Healthy males and non-pregnant, non-lactating females
   Additional comments: The whole tablet should be placed on top of the tongue and allowed to disintegrate for 30 seconds then swallowed without water.

Analyte to measure: Phentermine in plasma

Bioequivalence based on (90% CI): Phentermine

Waiver request of in vivo testing: 15 mg and 30 mg strengths based on (i) acceptable bioequivalence study on the 37.5 mg strength, (ii) acceptable in vitro dissolution testing of all strengths, and (iii) proportional similarity of the formulations across all 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 all 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*.