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Draft Guidance on Lamotrigine

October 2024

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Active Ingredient: Lamotrigine

Dosage Form: Tablet, orally disintegrating

Route: Oral

Strengths: 25 mg, 50 mg, 100 mg, 200 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: 50 mg
   Subjects: Healthy males and non-pregnant, non-lactating females
   Additional comments: The orally disintegrating tablet should be placed on the tongue, allowed to disintegrate, and swallowed without water. Ensure an adequate washout period between treatments in the crossover study due to the long elimination half-life of lamotrigine. Alternatively, a parallel study design may be considered.

Analyte to measure: Lamotrigine in plasma

Bioequivalence based on (90% CI): Lamotrigine

Waiver request of in vivo testing: 25 mg, 100 mg, and 200 mg strengths based on (i) acceptable bioequivalence study on the 50 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*.