Contains Nonbinding Recommendations

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Draft Guidance on Benazepril Hydrochloride; Hydrochlorothiazide

October 2024

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Active Ingredients: Benazepril hydrochloride; Hydrochlorothiazide

Dosage Form: Tablet

Route: Oral

Strengths: 5 mg; 6.25 mg, 10 mg; 12.5 mg, 20 mg; 12.5 mg, 20 mg; 25 mg

Recommended Study: One in vivo bioequivalence study with pharmacokinetic endpoints

1. Type of study: Fasting
   Design: Single-dose, two-period, two-sequence, two-treatment crossover in vivo
   Strength: 20 mg; 25 mg
   Subjects: Healthy males and non-pregnant, non-lactating females
   Additional comments: Females of reproductive potential should use effective contraception during the study.

Analytes to measure: Benazepril, its active metabolite, benazeprilat, and hydrochlorothiazide in plasma

Bioequivalence based on (90% CI): Benazepril and hydrochlorothiazide

Submit the metabolite data as supportive evidence of comparable therapeutic outcome. For the metabolite, the following data should be submitted: individual and mean concentrations, individual and mean pharmacokinetic parameters, and geometric means and ratios of means for AUC and C_{max}.

Waiver request of in vivo testing: 5 mg; 6.25 mg, 10 mg; 12.5 mg, and 20 mg; 12.5 mg strengths, based on (i) acceptable bioequivalence study on the 20 mg; 25 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*.