

**Draft Guidance on Hydrochlorothiazide; Valsartan**

**October 2024**

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<b>Active Ingredients:</b>	Hydrochlorothiazide; Valsartan
<b>Dosage Form:</b>	Tablet
<b>Route:</b>	Oral
<b>Strengths:</b>	12.5 mg; 80 mg, 12.5 mg; 160 mg, 12.5 mg; 320 mg, 25 mg; 160 mg, 25 mg; 320 mg
<b>Recommended Study:</b>	One in vivo bioequivalence study with pharmacokinetic endpoints
1.	Type of study: Fasting Design: Randomized, single-dose, two-treatment, two-period crossover in vivo Strength: 25 mg; 320 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:** Valsartan and hydrochlorothiazide in plasma

**Bioequivalence based on (90% CI):** Valsartan and hydrochlorothiazide

**Waiver request of in vivo testing:** 12.5 mg; 80 mg, 12.5 mg; 160 mg, 12.5 mg; 320 mg, 25 mg; 160 mg strengths based on (i) acceptable bioequivalence study on the 25 mg; 320 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).<sup>1</sup> Specifications will be determined upon review of the abbreviated new drug application.

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**Document History:** Recommended May 2007; Revised July 2008; Finalized August 2017; Revised October 2024

**Unique Agency Identifier:** PSG\_020818

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<sup>1</sup> 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*.