

Draft Guidance on Chlorthalidone

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA, or the Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the Office of Generic Drugs.

Active Ingredient: Chlorthalidone

Dosage Form; Route: Tablet; oral

Recommended Studies: Two studies

1. Type of study: Fasting

Design: Single-dose, two-treatment, two-period crossover in vivo

Strength: 50 mg

Subjects: Males and non-lactating, non-pregnant females, general population

Additional comments: Consider using a parallel study design due to chlorthalidone's long half-life. For long half-life drug products with low intra-subject variability in distribution and clearance, an AUC truncated to 72 hours may be used in place of AUC_{0-t} or $AUC_{0-\infty}$. For either a crossover or parallel study, sample collection time should be adequate to ensure completion of gastrointestinal transit of the drug product and absorption of the drug substance. Collect sufficient blood samples in the bioequivalence studies to adequately characterize C_{max} and T_{max} .

2. Type of study: Fed

Design: Single-dose, two-treatment, two-period crossover in vivo

Strength: 50 mg

Subjects: Males and non-lactating, non-pregnant females, general population

Additional comments: See comments above

Analyte to measure (in appropriate biological fluid): Chlorthalidone in plasma or in whole blood

Bioequivalence based on (90% CI): Chlorthalidone

Waiver request of in vivo testing: 25 mg based on (i) acceptable bioequivalence studies on the 50 mg strength (ii) proportional similarity of the formulations across all strengths, and (iii) acceptable in vitro dissolution testing of all strengths

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