

Contains Nonbinding Recommendations

Draft Guidance on Metoprolol Tartrate; Hydrochlorothiazide

This draft guidance, once finalized, will represent the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the Office of Generic Drugs.

Active ingredient: Metoprolol Tartrate; Hydrochlorothiazide

Form/Route: Tablet/Oral

Recommended study: 2 studies

1. Type of study: Fasting
Design: Single-dose, two-way crossover in-vivo
Strength: 100 mg; 25 mg
Subjects: Healthy males and nonpregnant females, general population
Additional comments:

2. Type of study: Fed
Design: Single-dose, two-way crossover in-vivo
Strength: 100 mg; 25 mg
Subjects: Healthy males and nonpregnant females, general population
Additional comments:

Analytes to measure (in appropriate biological fluid): Metoprolol and Hydrochlorothiazide in plasma

Bioequivalence based on (90% CI): Metoprolol and Hydrochlorothiazide

Waiver request of in-vivo testing: 50 mg/25 mg based on (i) acceptable bioequivalence studies on the 100 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:

Please note that a **Dissolution Methods Database** is available to the public at the OGD website <http://www.accessdata.fda.gov/scripts/cder/dissolution/>. Please find the dissolution information for this product at this website. Please 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 application.