

## Draft Guidance on Doxycycline Hyclate

This draft guidance, once finalized, will represent the Food and Drug Administration's (FDA's) current thinking on this topic.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:** Doxycycline Hyclate

**Form/Route:** Capsules/Oral

**Recommended studies:** 2 studies

1. Type of study: Fasting  
Design: Single-dose, two-way, crossover *in-vivo*  
Strength: 100 mg  
Subjects: Normal healthy males and females, general population  
Additional Comments: Females should not be pregnant or lactating, and if applicable, should practice abstention or contraception during the study.

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2. Type of study: Fed  
Design: Single-dose, two-way, crossover *in-vivo*  
Strength: 100 mg  
Subjects: Normal healthy males and females, general population  
Additional comments: Please see comment above.

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**Analytes to measure:** Doxycycline in plasma

**Bioequivalence based on (90% CI):** Doxycycline

**Waiver request of in-vivo testing:** 50 mg based on (i) acceptable bioequivalence studies on the 100 mg strength, (ii) acceptable dissolution testing across all strengths, and (iii) proportional similarity in 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 at <http://www.fda.gov/cder/ogd/index.htm>. 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.