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Draft Guidance on Mycophenolate Mofetil February 2022

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This guidance, which interprets the Agency's regulations on bioequivalence at 21 CFR part 320, provides product-specific recommendations on, among other things, the design of bioequivalence studies to support abbreviated new drug applications (ANDAs) for the referenced drug product. FDA is publishing this guidance to further facilitate generic drug product availability and to assist the generic pharmaceutical industry with identifying the most appropriate methodology for developing drugs and generating evidence needed to support ANDA approval for generic versions of this product.

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In November 2019, FDA issued a draft product-specific guidance for industry on generic mycophenolate mofetil. We are now issuing revised draft guidance for industry that replaces the previously issued guidance.

Active Ingredient: Mycophenolate mofetil

Dosage Form; Route: For suspension; oral

Recommended Studies: Two studies

1. Type of study: Fasting

Design: Single-dose, two-treatment, two-period crossover in vivo Strength: 200 mg/mL [Recommended dose: 1000 mg (5 mL)]

Subjects: Healthy males, and healthy females not of reproductive potential Additional comments: Male subjects with female partners of reproductive potential should use effective contraception during the study and for 90 days after the last dose. Male subjects should not donate semen during the study and for 90 days after the last dose. Subjects should not donate blood during the study and for 6 weeks after the last dose. Subjects should not receive any live attenuated vaccines while participating in the study.

2. Type of study: Fed

Design: Single-dose, two-treatment, two-period crossover in vivo Strength: 200 mg/mL [Recommended dose: 1000 mg (5 mL)]

Subjects: Healthy males, and healthy females not of reproductive potential

Additional comments: See comments above.

Analytes to measure: Mycophenolate mofetil, and the active metabolite, mycophenolic acid in plasma

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 Cmax.

Bioequivalence based on (90% CI): Mycophenolate mofetil

Waiver request of in vivo testing: Not applicable

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 of the test and reference products. Specifications will be determined upon review of the abbreviated new drug application (ANDA).

Product-specific testing conditions for in vitro feeding tube studies: The approved labeling for the reference product states that the product may be administered by a nasogastric (NG) tube. Using the constituted suspension product, conduct the in vitro feeding tube studies including comparative recovery testing and sedimentation volume and redispersibility testing. For general procedures of in vitro feeding tube studies, refer to the most recent version of the FDA guidance for industry on *Oral Drug Products Administered Via Enteral Feeding Tube: In Vitro Testing and Labeling Recommendations*.^a

Testing tube: NG tube (8 French; minimum 1.7 mm interior diameter)

Testing strength: 200 mg/mL [Recommended quantity: 1500 mg (7.5 mL)]

<u>Incubation times</u>: 0 and 15 minutes

Additional Information:

Device:

This product is a drug-device combination product. Refer to the most recent version of the FDA guidance for industry on *Comparative Analyses and Related Comparative Use Human Factors Studies for a Drug-Device Combination Product Submitted in an ANDA*. An ANDA for a proposed generic drug-device combination product should include complete comparative analyses.

Revision History: Recommended June 2010; Revised February 2014, October 2017,

November 2019, February 2022

Unique Agency Identifier: PSG_050759

^a For the most recent version of a guidance, check the FDA guidance web page at https://www.fda.gov/regulatory-information/search-fda-guidance-documents