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Draft Guidance on Dexmethylphenidate Hydrochloride; Serdexmethylphenidate Chloride February 2023

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In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

Active Ingredients: Dexmethylphenidate hydrochloride; Serdexmethylphenidate

chloride

Dosage Form; Route: Capsule; oral

Recommended Studies: Two in vivo bioequivalence studies with pharmacokinetic endpoints

1. Type of study: Fasting

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

Strength: EQ 10.4 mg Base; EQ 52.3 mg Base

Subjects: Healthy males and non-pregnant, non-lactating females

Additional comments: None

2. Type of study: Fed

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

Strength: EQ 10.4 mg Base; EQ 52.3 mg Base

Subjects: Healthy males and non-pregnant, non-lactating females

Additional comments: None

Analytes to measure: Dexmethylphenidate and serdexmethylphenidate in plasma

Bioequivalence based on (90% CI): Dexmethylphenidate

Submit serdexmethylphenidate data as supportive evidence of comparable therapeutic outcome. For serdexmethylphenidate, 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.

Waiver request of in vivo testing: EQ 5.2 mg Base; EQ 26.1 mg Base and EQ 7.8 mg Base; EQ 39.2 mg Base strengths based on (i) acceptable bioequivalence studies on the EQ 10.4 mg Base; EQ 52.3 mg Base 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 and reference products. Specifications will be determined upon review of the Abbreviated New Drug Application (ANDA).

Unique Agency Identifier: PSG_212994

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