

Contains Nonbinding Recommendations
Draft – Not for Implementation
Draft Guidance on Sodium Phenylbutyrate
February 2024

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Active Ingredient:	Sodium phenylbutyrate
Dosage Form:	For suspension
Route:	Oral
Strengths:	2 gm/packet, 3 gm/packet, 4 gm/packet, 5 gm/packet, 6 gm/packet, 6.67 gm/packet
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: 5 gm/packet (at a dose of 5 gm) 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: 5 gm/packet (at a dose of 5 gm) Subjects: Healthy males and non-pregnant, non-lactating females Additional comments: None
Analyte to measure:	Phenylbutyrate in plasma
Bioequivalence based on (90% CI):	Phenylbutyrate

Waiver request of in vivo testing: 2 gm/packet, 3 gm/packet, 4 gm/packet, 6 gm/packet, and 6.67 gm/packet unit-dose strengths based upon (i) acceptable bioequivalence studies on the 5 g/Package unit-dose 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 each of all strengths of the test and reference products. Note that a dosage unit for suspension is the labeled strength (packet). Specifications will be determined upon review of the abbreviated new drug application.

Document History: Recommended February 2024

Unique Agency Identifier: PSG_214860