

- 1 31 May 2018
- 2 EMA/CHMP/257298/2018
- 3 Committee for Medicinal Products for Human Use (CHMP)
- 4 Lapatinib film-coated tablet 250 mg product-specific
- bioequivalence guidance
- 6 Draft

Draft Agreed by Pharmacokinetics Working Party (PKWP)	April 2018
Adopted by CHMP for release for consultation	31 May 2018
Start of public consultation	27 June 2018
End of consultation (deadline for comments)	30 September 2018

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Comments should be provided using this $\underline{\text{template}}$. The completed comments form should be sent to $\underline{\text{PKWPsecretariat@ema.europa.eu}}$

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Keywords	Bioequivalence, generics, lapatinib
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12 13	Lapatinib film-coated tablet 250 mg product-specific bioequivalence guidance			
14	<u>Disclaimer</u> :			
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18	Requirements for bioequivalence demonstration (PKWP)*			
	BCS Classification**	BCS Class: I III Neither of the two Background: Lapatinib is a low solubility drug with limited absorption.		
Bioequivalence study design in case a BCS biowaiver is not feasible or applied	in case a BCS biowaiver is not feasible or	single dose cross-over		
	healthy volunteers			

☐ fasting

with food.

☐ fed

 \boxtimes both

administration of drug product and finished within 30 minutes).

☐ either fasting or fed

Background: Both fasting and fed are necessary since lapatinib should be administered in a standardised manner with regards to food as systemic exposure to lapatinib is significantly increased when administered

The fed study should be a conventional fed study (high-fat high-calorie meal given 30 minutes prior to

	Strength: 250 mg Background: This is the only available strength.
	Number of studies: Two single dose studies Background: Both a fasting and a fed study are needed.
Analyte	□ parent □ metabolite □ both
	□ plasma/serum □ blood □ urine
	Enantioselective analytical method: ☐ yes ☒ no
Bioequivalence assessment	Main pharmacokinetic variables: AUC_{0-t} and C_{max}
	90% confidence interval: 80.00 – 125.00%

^{*} As intra-subject variability of the reference product has not been reviewed to elaborate this product-specific bioequivalence guideline, it is not possible to recommend at this stage the use of a replicate design to demonstrate high intra-subject variability and widen the acceptance range of C_{max} . If high intra-individual variability ($CV_{intra} > 30$ %) is expected, the applicants might follow respective guideline recommendations.

^{**} This tentative BCS classification of the drug substance serves to define whether *in vivo* studies seems to be mandatory (BCS class II and IV) or, on the contrary (BCS Class I and III), the Applicant may choose between two options: *in vivo* approach or *in vitro* approach based on a BCS biowaiver. In this latter case, the BCS classification of the drug substance should be confirmed by the Applicant at the time of submission based on available data (solubility experiments, literature, etc.). However, a BCS-based biowaiver might not be feasible due to product specific characteristics despite the drug substance being BCS class I or III (e.g. *in vitro* dissolution being less than 85 % within 15 min (BCS class III) or 30 min (BCS class I) either for test or reference, or unacceptable differences in the excipient composition).