

- 1 24 September 2015
- 2 EMA/CHMP/PKWP/152216/2015
- 3 Committee for Medicinal Products for Human Use (CHMP)
- Lenalidomide hard gelatine capsules 2.5, 5, 7.5, 10, 15
- 5 and 25mg product-specific bioequivalence guidance
- 6 Draft

Draft Agreed by Pharmacokinetics Working Party	July 2015
Adoption by CHMP for release for consultation	24 September 2015
Start of public consultation	1 October 2015
End of consultation (deadline for comments)	1 January 2016

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Comments should be provided using this <u>template</u>. The completed comments form should be sent to <u>PKWPsecretariat@ema.europa.eu</u>.

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Manusarda.	Biography and a second local description
Kevwords	Bioequivalence, generics, lenalidomide



- Lenalidomide hard gelatine capsules 2.5, 5, 7.5, 10, 15 and 25mg product-specific bioequivalence guidance
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Disclaimer:

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- 14 This guidance should not be understood as being legally enforceable and is without prejudice to the need to ensure that the data submitted in support of a
- marketing authorisation application complies with the appropriate scientific, regulatory and legal requirements.
- 17 Requirements for bioequivalence demonstration (PKWP)*

BCS Classification**	BCS Class:	
	Background: Lenalidomide is a compound with complete absorption but the available data on solubility	
	does not allow its BCS classification. If the applicant generates the solubility data and classifies the drug	
	according to the BCS criteria as highly soluble, lenalidomide could be classified as class I and a BCS	
	biowaiver could be applicable.	
BE Study design	single dose	
in case a BCS biowaiver is not feasible or applied	cross-over	
	healthy volunteers	

	Strength: 25 mg Background: highest strength to be used for a drug with linear pharmacokinetics with limited information on solubility available.	
Analyte	Number of studies: one single dose study	
	Enantioselective analytical method: yes no	
Bioequivalence assessment	Main pharmacokinetic variables: AUC _{0-t} , Cmax	
	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 (CVintra > 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).