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Bahagian Regulatori Farmasi Negara (NPRA) National Pharmaceutical Regulatory Agency (NPRA)

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CENTRE OF PRODUCT AND COSMETIC EVALUATION

APPLICATION FOR A BIOWAIVER: ADDITIONAL STRENGTH

Adopted from the:

"WHO/PQT: medicines; Application for a Biowaiver: Additional Strength (Application from 01 May 2010)". With some adaptation for MALAYSIA application.

General Instructions

- Please review all the instructions thoroughly and carefully prior to completing the current application form.
- This form is not to be used other than biowaiver requested for additional strength(s) of the submitted product(s).
- One form is only for the application of one strength. If there are several strengths requested for biowaiver, please fill in this form separately.
- Please submit this application form together with the relevant documents including bioequivalence (BE) submission checklist, BE report, comparative dissolution profile (CDP) report in QUEST 3+ system under section P9 for product screening and evaluation.
- Provide / fill in as much detailed, accurate and final information as possible.
- All the appended documents should be clearly identifiable by their location and tagging of the file names. Kindly refer to the 'Guide on how to upload the BE study report and other relevant documents in QUEST 3+ system under section P9'.
- Kindly check that you have signed on the checklist, provided all requested information and enclosed all requested documents.
- Should you have any questions regarding this procedure or the checklist, kindly contact Generic Medicine Section (Bioequivalence Evaluation) via e-mail <u>be_sug@npra.gov.my</u>

*Reminder:

- i. Please be informed that all data submitted to support the registration application for this product will be subjected to further evaluation
- ii. Please refrain from changing/removing all submitted data unless requested by NPRA or the data has been updated as per latest registration requirements.
- iii. Kindly be reminded that decision whether the dossier is allowed for registration will be subjected to full evaluation and the final decision by the Drug Control Authority (DCA).
- iv. Kindly also note that satisfactory and complete documentation must be submitted within 180 working days, after first evaluation remark is received to avoid rejection.

I, the undersigned, certify, that the info	ormation provided in this application and the attached documents is correct and
Signed on behalf of:	
	(Product registration holder)
	(Date)

(Name & title)

1. TEST PRODUCT

1.1 Information of the biowaiver batch

- Attach the certificate of analysis (COA) of biowaiver batch.
- Attach the formulation page and manufacturing process summary in the batch manufacturing records (BMRs) of biowaiver batch.
- Biowaiver batches should be at least of pilot scale (≥100 000s @ 1/10 X full production scale, whichever greater. In case of production batch smaller than 100 000s, a full production batch will be required)

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J	Jnit Dose (mg)	Biowaiver batch (kg)
		tics
	composition U ys linear or	stance

2. REFERENCE STRENGTH (test product used in the bioequivalence (BE) study)

2.1 Information of the reference strength

In this context, reference strength is referred to the strength of the BE test product that was used in the in vivo BE study. The same batch of the test product used in the BE study should be used in the comparative dissolution profile (CDP) studies.

Active ingredient, strength and dosage for	orm		
Batch number			
Batch size (number of unit doses)			
Date of manufacture			
Expiry date			
Potency (Assayed content)			
Name and full address of the drug substa	ince		
manufacturing site			
Name and full address of the test product	t		
manufacturing site			
	omposition	and batch manufacturing	
Ingredients		Unit Dose (mg)	Biowaiver batch (kg)
			<u> </u>
2.2 Batch confirmation			
If the hotels of the maduet used in common	estiva dicas	lution studios was not the sam	a batab as tast modust used in DE

If the batch of the product used in comparative dissolution studies was <u>not the same</u> batch as test product used in BE study, the following information should be provided:

- Justification on the use of different batch in comparative dissolution studies
- The certificate of analysis (COA) of reference strength used in comparative dissolution studies
- The formulation page and manufacturing process summary from BMRs of reference strength used in

comparativ	ve dissolution studies		

3. COMPARATIVE FORMULATION TABLE

3.1 Tabulation of batch information for the test and reference strengths

Ingredients	Function	Strength (label claim)				
		Reference Strength		Test Product		
		(should be same bat		(the additional strength test product		
		product	ι)	used in CDP study)		
		•••••	mg	•••••	mg	
		Quantity per	% of total	Quantity per	% of total	
		unit	core	unit	core	
Total						
	1	1	1	1	1	

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•	Applicant should confirm whether the test and reference strength formulation are directly proportional.
•	Any deviations from direct proportionality should be identified and justified in detail.

4. COMPARATIVE MANUFACTURING PROCESS

4.1 Tabulation of manufacturing process for the test product and reference strengths

Test Product	Reference Strength (BE test product)
4.5.0	
4.2 Confirmation of manufacturing process	
 Applicant should confirm whether the test produ 	act and reference strength are manufactured by the same
manufacturing process.	act and reference strength are manufactured by the same

5. COMPARATIVE IN VITRO DISSOLUTION STUDIES BETWEEN TEST AND REFERENCE STRENGTH

- Comparative dissolution studies should be conducted in pH 1.2, 4.5 and 6.8 media. If the proposed dissolution medium for release of the products differs from these media, comparative in vitro data in dissolution medium for release should also be provided.
- Attach the dissolution study protocol and dissolution study report

Attach the dissolution study proto-	tor and dissolution study report
Name and address of laboratory or	
contract research organization(s) where	
the biowaiver dissolution studies were conducted	
conducted	
1.1 Summary of the dissolution condition	ons and method (please state for each medium used)
Composition of dissolution medium	
Temperature of dissolution medium	
Volume of dissolution medium	
Type of apparatus	
Agitation Detection method	
Number of units employed	
Number of units employed	
5.2 Summarize the results of the diss	olution study
	ry of individual and mean results with %CV, graphic summary and any
	similarity of profiles for each set of experimental conditions.