

TGA use only

This form, when completed, will be classified as 'For official use only'. For guidance on how your information will be treated by the TGA see: Treatment of information provided to the TGA at https://www.tga.gov.au/treatment-information-provided-tga>.

Additional strengths biowaiver template

- Refer to guidance document '<u>Completing the biowaiver templates</u>' when completing this template.
- Do not include any text in fields or text boxes indicated for "TGA use only".

For more information, refer to TGA website regarding bioequivalence data summary templates

1. Administrative information

Active Pharmaceutical Ingredient (API) in Australian Approved Name format	
Dosage form	
Proposed strength(s)	

2. Summary of requirements and outcomes

Select the finding in the outcome column that applies to your proposed products (test products)

Requirements	Outcome	
Therapeutic range and dose	☐ Narrow	☐ Non-narrow
Solubility	☐ High	Low



Requirements	Outcome			
Pharmacokinetic Characteristics	☐ Linear ☐ Non-linear (less than proportional) ☐ Non-linear (greater than proportional)			
Qualitative composition of the excipients of the different strengths	☐ Sufficiently similar ☐ Unacceptable differences			
Quantitative composition of the excipients of the different strengths	☐ Proportional ☐ Identical amount of excipients ☐ Identical amount of excipients except filler (diluent) ☐ Others:			
Dissolution profiles	 ☐ Similar and rapidly dissolving ☐ Similar and very rapidly dissolving ☐ Similar and non-rapidly dissolving ☐ Non-similar 			
Certificates of Analysis (CoAs)	Difference between biobatch test product and reference product assays within 5% Yes No			
TGA use only - Comments for Section 2				
Conclusion	☐ Acceptable ☐ Not acceptable			
3. Additional strength biowaiver 3.1 Application objective Reason for the application of a biowaiver for not providing bioequivalence study data for all proposed dose strengths TGA use only - Comments from review of Section 3.1				

3.2	Nature	of the	dosage form		
What	was the	dosage	form of the additional strength test product(s)?		
	addition oduct(s)		oths have the same dosage form and mechanism	m of release as the	biobatch
	Yes		Go to question 3.3		
	No		Justify differences in the nature of the dosage	form below.	
TGA	use onl	ly - Com	ments from review of Section 3.2		
3.3 What i	Solubi	•	f the drug substance?		
TGA	use onl	ly - Com	ments from review of Section 3.3		
3.4	Pharm	acokine	etic characteristics		
Were I	linear ph	narmaco	kinetics observed over the dose range?		
	Yes		Provide source of the evidence:		
	No		State at which concentrations non-linearity occephanations:	cur and provide any	known
Is the	API a r	narrow th	nerapeutic index (NTI) drug substance?	Yes 🗌	No 🗌
Provi	de evide	ence on	whether the API is NTI below.		
TGA	use onl	ly - Com	ments from review of Section 3.4		

3.5 Test product formulation(s)

3.5.1 Product details

	Test product (Biobatch)	Additional strength 1	Additional strength 2	Additional strength 3
Drug Product Batch number				
Batch size and number of dose units				
Date of manufacture				
Expiry date				
Assay /Potency				
API lot number				

3.5.2 Product formulation(s)

O.O.E TTOGGGCTOT				
Ingredients	Test product (Biobatch)	Additional strength 1	Additional strength 2	Additional strength 3
		Quantity in formula	tion (e.g. mg and %)	

3.5.3	Assurances	
a.	Were the diffe ☐ Yes	erent strengths manufactured by the same manufacturing process?
TGAι	use only - Con	nments from review of Section 3.5.1a
b.	Was the qual ☐ Yes	itative composition of the different strengths the same?
TGA	use only - Con	nments from review of Section 3.5.1b
C.	Were the con	npositions of the strengths quantitatively proportional?
	(not applicab	atio between the amount of drug substances(s) the same for all strengths le to immediate release products, the coating components, capsule shell, s, and flavours)?
d.	Was the com	position of the strengths quantitatively identical in excipients?
§	If so:	
		quantities of all excipients identical and the amount of drug substance as less than 5% of the weight (excluding coating components and capsule
	or	
	with a diffe	ifference in the quantity of drug substance between strengths compensated erence in the quantity of the filler to maintain the same core weight for all and the amount of drug substance change was less than 5% of the core
TGA	use only - Con	nments from review of Section 3.5.1c and 3.5.1d
3.6	<i>In vitro</i> dissol	ution comparison between the different strengths of the test product
Locatio	n of the inform	ation
Dissol report	ution study	
Dissol	ution study	

Additional strengths biowaiver template (March 2020)
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Validation of experimental analytical methods	
Individual and mean results and respective summary statistics	
Certificate of analysis of the reference product	
Certificate of analysis of the test products	
3.6.1 Summary of disso	olution test method parameters
Apparatus	Are sinkers used?
Rate of operation	☐ 50 rpm for paddle☐ 100 rpm for basket☐ other system:If other system was selected, provide explanation:
Dissolution media	
Volume	
Temperature	
Sampling times	
Sample handling and storage	
Number of Dosage Units	
Sampling time (release)	
Filtration methods	
(in-line filtration or immediately after sampling)	
De-aeration method	

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Reference pharmacopoeia (e.g. EP, BP, USP)

3.6.2 Dissolution results of the biobatch test product

Strength:		
Batch number:	n =	dosage units/ pH medium

n	% Label Claim Released				
pH of medium	(Mins)	(Mins)	(Mins)	(Mins)	(Mins)
pH:					
Mean					
Range					
%RSD					
pH:					
Mean					
Range					
%RSD					
pH:					
Mean					
Range					
%RSD					
Release medium (if different to above):					
Mean					
Range					
%RSD					

Additional strengths biowaiver template (March 2020)

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		additional strer	ngths of the tes	t products	
Additional strength	:				
Batch number:		n =	dosage u	ınits/ pH medium	1
n		% La	abel Claim Relea	sed	
pH of medium	(Mins)	(Mins)	(Mins)	(Mins)	(Mins)
pH:					
Mean					
Range					
%RSD					
pH:					
Mean					
Range					
%RSD					
pH:		,			
Mean					
Range					
%RSD					
Release medium (if di	fferent to above):				
Mean					
Range					
%RSD					
3.6.4 Dissolution	3.6.4 Dissolution profile comparison				
Additional test pro			Biobatch test pro	duct strength:	
Batch number:		E	Batch number:		

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рН	Similarity factor (f2)	Time points used for f2 calculation
TGA use only - C	comments from review of Section	n 3.6
4. List of o	questions to the applic	ant
	· · · ·	
TGA use only – L	ist of questions	
L		
5. Applica	nt's response to the li	st of questions
6. TGA's a	ssessment and concl	usion
TGA's assessment	of applicant's responses	
TGA use only – A	Assessment of applicant's answe	ers to the list of questions
	accoording of applicant of allow	
TGA's overall conc	lusion and recommendations	
TGA use only – C	Conclusion and recommendation	ns
- ron asconly - c	sonoration and recommendation	
		