CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

205029Orig1s000

OTHER REVIEW(S)



505(b)(2) ASSESSMENT

Application Information					
NDA # 205029	NDA Supplement #: S-		Efficacy Supplement Type SE-		
Proprietary Name: N/A Established/Proper Name: epinephrine injection Dosage Form: injectable for IV administration Strengths: 1 mg/mL					
Applicant: Belcher Pharmaceuticals					
Date of Receipt: 12/4/13 (resubmission received 1/29/14)					
PDUFA Goal Date: 7/29/14			Action Goal Date (if different): 7/25/14		
RPM: Russell Fortney					
Proposed Indication(s): Epinephrine Injection USP, 1:1000 (1 mg/mL) is a solution for intravenous infusion indicated for use in increasing systemic arterial blood pressure in acute hypotensive states associated with septic shock.					

	GENERAL INFORMATION						
1)	Is this application for a recombinant or biologically-derived product and/or protein or peptide product <i>OR</i> is the applicant relying on a recombinant or biologically-derived product and/or protein or peptide product to support approval of the proposed product?						
	YES \square NO \boxtimes						
	If "YES" contact the $(b)(2)$ review staff in the Immediate Office, Office of New Drugs.						



INFORMATION PROVIDED VIA RELIANCE (LISTED DRUG OR LITERATURE)

2) List the information essential to the approval of the proposed drug that is provided by reliance on our previous finding of safety and efficacy for a listed drug by reliance on published literature, or by reliance on a final OTC monograph. (If not clearly identified by the applicant, this information can usually be derived from annotated labeling.)

Source of information* (e.g.,	Information relied-upon (e.g., specific sections of the application or labeling)	
published literature, name of listed		
drug(s), OTC final drug		
monograph)		
published literature	To support the indication (to increase BP	
	in septic shock)	
NDA 20800 Twinject	FDA's previous finding of safety	

^{*}each source of information should be listed on separate rows, however individual literature articles should not be listed separately

3) Reliance on information regarding another product (whether a previously approved product or from published literature) must be scientifically appropriate. An applicant needs to provide a scientific "bridge" to demonstrate the relationship of the referenced and proposed products. Describe how the applicant bridged the proposed product to the referenced product(s). (Example: BA/BE studies)

Because the product is injectable, and is titrated to effect for the new indication, we did not require BA/BE studies.

RELIANCE ON PUBLISHED LITERATURE

4)	Regardless of whether the applicant has explicitly stated a reliance on published literature apport their application, is reliance on published literature necessary to support the oval of the proposed drug product (i.e., the application <i>cannot</i> be approved without the ished literature)?			
	YES NO			
	If "NO," proceed to question #5.			
	(b) Does any of the published literature necessary to support approval identify a specific (e.g., brand name) <i>listed</i> drug product?			
	YES NO 🖂			
	If "NO", proceed to question $\frac{1}{45}$.			
	If "YES", list the listed drug(s) identified by name and answer question #4(c).			
	(c) Are the drug product(s) listed in (b) identified by the applicant as the listed drug(s)? YES \square NO \square			



RELIANCE ON LISTED DRUG(S)

Reliance on published literature which identifies a specific approved (listed) drug constitutes reliance on that listed drug. Please answer questions #5-9 accordingly. 5) Regardless of whether the applicant has explicitly cited reliance on listed drug(s), does the application rely on the finding of safety and effectiveness for one or more listed drugs (approved drugs) to support the approval of the proposed drug product (i.e., the application cannot be approved without this reliance)? If "NO," proceed to question #10. 6) Name of listed drug(s) relied upon, and the NDA #(s). Please indicate if the applicant explicitly identified the product as being relied upon (see note below): Name of Listed Drug NDA# Did applicant specify reliance on the product? (Y/N) **Twinject** 20800 Yes Applicants should specify reliance on the 356h, in the cover letter, and/or with their patent certification/statement. If you believe there is reliance on a listed product that has not been explicitly identified as such by the applicant, please contact the (b)(2) review staff in the Immediate Office, Office of New Drugs. 7) If this is a (b)(2) supplement to an original (b)(2) application, does the supplement rely upon the same listed drug(s) as the original (b)(2) application? \boxtimes YES \square NO \square If this application is a (b)(2) supplement to an original (b)(1) application or not a supplemental application, answer "N/A". If "NO", please contact the (b)(2) review staff in the Immediate Office, Office of New Drugs. 8) Were any of the listed drug(s) relied upon for this application: a) Approved in a 505(b)(2) application? YES If "YES", please list which drug(s). Name of drug(s) approved in a 505(b)(2) application: NDA 20800 Twinject b) Approved by the DESI process? YES If "YES", please list which drug(s). Name of drug(s) approved via the DESI process: c) Described in a final OTC drug monograph?



YES

 \boxtimes

NO

Name of drug(s) described in a final OTC drug monograph:

d)	Dis	scontinued from marketing?
		YES NO
		If "YES", please list which drug(s) and answer question d) i. below.
		If "NO", proceed to question #9.
		Name of drug(s) discontinued from marketing:
	i)	Were the products discontinued for reasons related to safety or effectiveness?
		YES NO
		(Information regarding whether a drug has been discontinued from marketing for
		reasons of safety or effectiveness may be available in the Orange Book. Refer to
		section 1.11 for an explanation, and section 6.1 for the list of discontinued drugs. If a determination of the reason for discontinuation has not been published in the
		Federal Register (and noted in the Orange Book), you will need to research the
		archive file and/or consult with the review team. Do not rely solely on any
		statements made by the sponsor.)
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9) Describe the change from the listed drug(s) relied upon to support this (b)(2) application (for example, "This application provides for a new indication, otitis media" or "This application provides for a change in dosage form, from capsule to solution").

This application provides for a new indication, to increase BP in septic shock.

The purpose of the following two questions is to determine if there is an approved drug product that is equivalent or very similar to the product proposed for approval that should be referenced as a listed drug in the pending application.

The assessment of pharmaceutical equivalence for a recombinant or biologically-derived product and/or protein or peptide product is complex. If you answered **YES to question #1**, proceed to question #12; if you answered **NO to question #1**, proceed to question #10 below.

10) (a) Is there a pharmaceutical equivalent(s) to the product proposed in the 505(b)(2) application that is already approved (via an NDA or ANDA)?

(Pharmaceutical equivalents are drug products in identical dosage forms intended for the same route of administration that: (1) contain identical amounts of the identical active drug ingredient, i.e., the same salt or ester of the same therapeutic moiety, or, in the case of modified release dosage forms that require a reservoir or overage or such forms as prefilled syringes where residual volume may vary, that deliver identical amounts of the active drug ingredient over the identical dosing period; (2) do not necessarily contain the same inactive ingredients; and (3) meet the identical compendial or other applicable standard of identity, strength, quality, and purity, including potency and, where applicable, content uniformity, disintegration times, and/or dissolution rates. (21 CFR 320.1(c), FDA's "Approved Drug Products with Therapeutic Equivalence Evaluations" (the Orange Book)).

Note that for proposed combinations of one or more previously approved drugs, a pharmaceutical equivalent must also be a combination of the same drugs.



DOCKET

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