Approval Package for:

APPLICATION NUMBER: 20-800/S023

Trade Name: ADRENACLICK®

Generic Name: EPINEPHRINE

Sponsor: Amedra Pharmaceuticals LLC

Approval Date: 9/6/2013

APPLICATION NUMBER: 20-800/S023

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Reviews / Information Included in this NDA Review.

Approval Letter	✓
Other Action Letters	
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Medical Review(s)	
Chemistry Review(s)	✓
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APPLICATION NUMBER: 20-800/S023

APPROVAL LETTER

Food and Drug Administration Silver Spring MD 20993

NDA 20800/S-023

APPROVAL LETTER

Amedra Pharmaceuticals LLC Attention: Michele Roy, RN, MS Senior Director, Regulatory Affairs 2 Walnut Grove Drive, Suite 190 Horsham, PA 19044-7707

Dear Ms. Roy:

Please refer to your Supplemental New Drug Application (sNDA) dated and received June 12, 2013, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act (FDCA) for Twinject/Adrenaclick Auto-Injector (epinephrine) Injection.

This "Prior Approval" supplemental new drug application proposes changes to (DMF (1) Change in manufacturing process and process controls; (2) Change in specification for (b) (4).

We have completed our review of this supplemental new drug application. This supplement is approved.

We remind you that you must comply with the requirements for an approved NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, call Youbang Liu, Regulatory Project Manager, at (301) 796-1926.

Sincerely,

{See appended electronic signature page}

Ramesh Raghavachari, Ph.D. Acting Branch Chief, Branch IX Division of New Drug Quality Assessment III Office of New Drug Quality Assessment Center for Drug Evaluation and Research

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/s/
RAMESH RAGHAVACHARI 09/06/2013

APPLICATION NUMBER: 20-800/S023

CHEMISTRY REVIEW(S)

Chemistry Review:# 1	1. Division: ONDQA-DPARP	2. NDA Number:	20800	
3. Name and Address of Applic	`	4. Supplement(s): PAS		
Amedra		Number:023		
2 Walnut Grove Drive		Date(s): 10/12/2013		
Suite 190				
Horsham, PA, 19044-7707				
5. Name of Drug: Twinject [®] /Adrenaclick [®] auto-		6. Nonproprietary name:		
injector		Epinephrine injection, USP 1:1000		
7. Supplement Provides for: Ch			8. Amendment(s):	
of the These changes are described in DMF (b) (4)				
9. Pharmacological Category: I	Emergency treatment	10. How	11. Related Documents:	
of severe allergic reactions (Type	_ ,	Dispensed:		
well as anaphylaxis to unknown s	,	R_{x}		
anaphylaxis) or exercise-induced				
	1 3			
12. Dosage Form: sterile injection		13. Potency: 0.15 mg, 0.3 mg		
14. Chemical Name and Structu		•		
HO OH N				
15. Comments:				
 This supplement references to changes in the manufacture of A letter of authorization was provided on 06-Dec-2012 DMF was reviewed by Erika Englund on 07/15/2013 and found adequate 				
16. Conclusion: This supplement is recommended for approval from CMC perspective				
17. Name:		Signature:	Date:	
Erika Englund, Ph.D., Chemist				
18. Concurrence:		Signature:	Date:	
Ramesh Raghavachari, Ph.D., Acting Branch Chief, Div., IX, ONDQA				
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07/15/2013

APPLICATION NUMBER: 20-800/S023

ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS



Food and Drug Administration Silver Spring MD 20993

NDA 20800/S-023

ACKNOWLEDGEMENT --PRIOR APPROVAL SUPPLEMENT

Amedra Pharmaceuticals LLC Attention: Michele Roy, RN, MS Senior Director, Regulatory Affairs 2 Walnut Grove Drive, Suite 190 Horsham, PA 19044-7707

Dear Ms. Roy:

We have received your Supplemental New Drug Application (sNDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for the following:

NDA Number: 20800

Supplement number: S-023

Name of Drug Product: Twinject/Adrenaclick Auto-Injector (epinephrine) Injection

Date of supplement: June 12, 2013

Date of receipt: June 12, 2013

Unless we notify you within 60 days of the receipt date that the application is not sufficiently complete to permit a substantive review, we will file the application on August 11, 2013 in accordance with 21 CFR 314.101(a). If the application is filed, the user fee goal date will be October 12, 2013.

Please cite the application number listed above at the top of the first page of all submissions to this application. Send all submissions, electronic or paper, including those sent by overnight mail or courier, to the following address:

Reference ID: 3339964

NDA 20800/S-023 Page 2

> Food and Drug Administration Center for Drug Evaluation and Research Division of Pulmonary, Allergy, and Rheumatology Products 5901-B Ammendale Road Beltsville, MD 20705-1266

If you have questions, please call me at (301) 796-1926.

Sincerely,

{See appended electronic signature page}

Youbang Liu Regulatory Project Manager Division III of New Drug Quality Assessment Office of New Drug Quality Assessment Center for Drug Evaluation and Research

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/s/			
YOUBANG LIU 07/11/2013			