## CENTER FOR DRUG EVALUATION AND RESEARCH

**APPLICATION NUMBER:** 

## 205434Orig1s000

## **CHEMISTRY REVIEW(S)**

#### M E M O R A N D U M DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE:	July 24, 2014
FROM:	Nina Ni, Ph.D., Review Chemist, Branch IV, DNDQA II/ONDQA
THROUGH:	Danae Christodoulou, Ph.D., Acting Branch Chief, Branch VII, DNDQA
	III/ONDQA
SUBJECT:	Addendum to CMC Review #1 for NDA 205434
TO:	NDA 205434

In my CMC Review #1, dated 06/13/2014, this NDA was recommended for approval pending on the following issue:

• The overall recommendation regarding manufacturing sites from the Office of Compliance was pending.

Recently, the Office of Compliance has issued an overall "Acceptable" recommendation in the EES (establishment evaluation system), see the attachment. Since the pending issue has been resolved on 07/17/2014, this NDA is recommended for approval.

#### Attachment: EER reports

Application:	1	NDA 205434/	/000	Sponsor:	(	GLAXOSMITHKLINE CO	ONS
Org. Code:	5	560			1	500 LITTLETON RD	
Priority:	8	3			F	PARSIPPANY, NJ 0705	43884
Stamp Date:	2	23-SEP-2013	3	Brand Na		LONASE ALLERGY RE	ELIEF (FLUTICASONE
PDUFA Date:	2	23-JUL-2014		Estab. Na		KOP	
Action Goal:				Generic M	lame:		
District Goal:	2	24-MAY-2014	4	Product N	Number; Dosa	age Form; Ingredient;	Strengths
				001;	SPRAY, METE	ERED; FLUTICASONE	PROPIONATE; .05MG
FDA Contacts:	N. NI		Prod Qual Review	ver			3017965296
	R. MCK	NIGHT	Product Quality P	M			3017961765
	J. LEE		Regulatory Project	ct Mgr			3017963599
	S. DE		Team Leader				3017961664
Overall Recomm	nendation	n:	ACCEPTABLE	on 17-JUL-2014	by E. DOBBIN	0	2404024266
			PENDING	on 21-FEB-2014 t	by EES_PROD		
			PENDING	on 07-NOV-2013 b	y EES_PROD		
			PENDING	on 24-OCT-2013 t	y EES_PROD		
			PENDING	on 23-OCT-2013 b	y EES_PROD		
Establishment:		CFN:	9610411 FEI:	3003262904			
			O OPERATIONS UK LIMITED				
DMF No:		WARE,	HERTFORDSHIRE, UNITED		ADA:		
Responsibilities		DRUG	SUBSTANCE (b) (4)				
Profile:		NON-S	TERILE API BY CHEMICAL SY	NTHESIS OF	Al Status:	NONE	
Last Milestone:		OC RE	COMMENDATION				
Milestone Date:		28-OCT	T-2013				
Decision:		ACCEP	PTABLE				
Reason:		BASED	ON PROFILE				

Establishment:	CFN: 9611205 FEI: 3002807079	
	GLAXO WELLCOME MANUFACTURING PTE LIMITED 1 PIONEER, SECTOR 1	
	SINGAPORE, , SINGAPORE	
DMF No:		AADA:
Responsibilities:	DRUG SUBSTANCE MANUFACTURER	
Profile:	NON-STERILE API BY CHEMICAL SYNTHESIS	OAI Status: NONE
Last Milestone:	OC RECOMMENDATION	
Milestone Date:	28-OCT-2013	
Decision:	ACCEPTABLE	
Reason:	BASED ON PROFILE	
Establishment:	CFN: 9610421 FEI: 3002807078	
	GLAXOSMITHKLINE HARMIRE ROAD	
DMF No:	BARNARD CASTLE, , UNITED KINGDOM	AADA:
Responsibilities:	FINISHED DOSAGE STABILITY TESTER	ADA.
Profile:	CONTROL TESTING LABORATORY	OAI Status: NONE
Frome.		OAI Status. NONE
Last Milestone:	OC RECOMMENDATION	
Milestone Date:	24-OCT-2013	
Decision:	ACCEPTABLE	
Reason:	BASED ON PROFILE	
Establishment:	CFN: FEI: 3003215057	
	GLAXOSMITHKLINE COBDEN STREET	
	MONTROSE, , UNITED KINGDOM	
DMF No:		AADA:
Responsibilities:	DRUG SUBSTANCE MANUFACTURER	
Profile:	NON-STERILE API BY CHEMICAL SYNTHESIS	OAI Status: NONE
Last Milestone:	OC RECOMMENDATION	
Milestone Date:	25-FEB-2014	
Decision:	ACCEPTABLE	
Reason:	DISTRICT RECOMMENDATION	

Establishment:	CFN: 9615283 FEI: 30028070	86
	GLAXOSMITHKLINE INC 7333 MISSISSAUGA NORTH ROAD	
DMF No:	MISSISSAUGA, ONTARIO, CANADA	AADA:
Responsibilities:	FINISHED DOSAGE MANUFACTURER	
Profile:	(b) (4)	OAI Status: NONE
Last Milestone:	OC RECOMMENDATION	
Milestone Date:	25-FEB-2014	
Decision:	ACCEPTABLE	
Reason:	DISTRICT RECOMMENDATION	
Establishment:	CFN: 9611905 FEI: 30028074	36
	GLAXOWELLCOME PRODUCTION 23 RUE LAVOISIER B.P. 118	
	EVREUX, , FRANCE	
DMF No:		AADA:
Responsibilities:	DRUG SUBSTANCE (b) (4)	
Profile:	NON-STERILE API BY CHEMICAL SYNTHESIS	OAI Status: NONE
Last Milestone:	OC RECOMMENDATION	
Milestone Date:	17-JUL-2014	
Decision:	ACCEPTABLE	
Reason:	DISTRICT RECOMMENDATION	

### This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

\_\_\_\_\_

-----

/s/

\_\_\_\_\_

NINA NI 07/24/2014

SWAPAN K DE 07/24/2014





## NDA 205434

## FLONASE<sup>®</sup> Allergy Relief (fluticasone propionate) Nasal Spray

## **GlaxoSmithKline Consumer Healthcare**

## Nina Ni, Ph. D. Office of New Drug Quality Assessment Division II, Branch IV

For the Division of Nonprescription Clinical Evaluation

## **CHEMISTRY REVIEW #1**





## **Table of Contents**

Table of Contents i
Chemistry Review Data Sheet
1. NDA 205434
2. REVIEW #: 1
3. REVIEW DATE: 13-Jun-2014
4. REVIEWER: Nina Ni
5. PREVIOUS DOCUMENTS:
6. SUBMISSION(S) BEING REVIEWED:
7. NAME & ADDRESS OF APPLICANT:
8. DRUG PRODUCT NAME/CODE/TYPE:
9. LEGAL BASIS FOR SUBMISSION: 505(b)(1)
10. PHARMACOL. CATEGORY: Corticosteroid with anti-inflammatory activity
11. DOSAGE FORM: Nasal Spray 4
12. STRENGTH/POTENCY: 50 μg/actuation
13. ROUTE OF ADMINISTRATION: Intranasal 4
14. Rx/OTC DISPENSED:RxX_OTC
15a. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM): 4
15b. NANOTECHNOLOGY PRODUCT TRACKING: 4
16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:
17. RELATED/SUPPORTING DOCUMENTS:
18. STATUS
19. ORDER OF REVIEW
20. EES INFORMATION
I. Recommendations
A. Recommendation and Conclusion on Approvability
B. Recommendation on Phase 4 (Post-Marketing) Commitments, Agreements, and/or Risk Management Steps, if Approvable
II. Summary of Chemistry Assessments
A. Description of the Drug Product(s) and Drug Substance(s) 8





B. Descrip	tion of How the Drug Product is Intended to be Used	10
I. Review of Com	non Technical Document-Quality (Ctd-Q) Module 3.2	11
3.2.S DR	UG SUBSTANCE [Fluticasone Propionate, Glaxo Wellcome]	11
3.2.S.1	General Information	
3.2.S.2	Manufacture	13
3.2.S.3	Characterization	13
3.2.S.4	Control of Drug Substance	13
3.2.S.5	Reference Standards or Materials	14
3.2.S.6	Container Closure System	14
3.2.S.7	Stability	14
3.2.P DI	RUG PRODUCT [FLONASE <sup>®</sup> Allergy Relief Nasal Spray]	15
3.2.P.1	Description and Composition of the Drug Product	15
3.2.P.2	Pharmaceutical Development	15
3.2.P.3	Manufacture	21
3.2.P.5	Control of Drug Product	24
3.2.P.6	Reference Standards or Materials	34
3.2.P.7	Container Closure System	34
3.2.P.8	Stability	39
A APP	ENDICES	46
A.1 I	Facilities and Equipment (biotech only)	46
	Adventitious Agents Safety Evaluation	
	Novel Excipients	
	Vanotechnology Product Information	
R REG	IONAL INFORMATION	47
	Executed Batch Records	
R.2 (	Comparability Protocols	47
R.3 M	Methods Validation Package	47
III. List of Deficie	ncies To Be Communicated	56





Chemistry Review Data Sheet

## **Chemistry Review Data Sheet**

- **1. NDA** 205434
- 2. **REVIEW** #: 1
- 3. REVIEW DATE: 13-Jun-2014

#### 4. **REVIEWER:** Nina Ni

#### 5. PREVIOUS DOCUMENTS:

Previous Document(s)	Document Date	
Rx NDA 20121	20-Nov-1991	

### 6. SUBMISSION(S) BEING REVIEWED:

Submission(s) Reviewed	Document Date
Original	23-Sept-2013
Amendment 0005	07-Jan-2014
Amendment 0007	17-Jan-2014

#### 7. NAME & ADDRESS OF APPLICANT:

Name:	GlaxoSmithKline Consumer Healthcare
Address:	1500 Littleton Rd. Parsippany, NJ 07054
Representative:	Gregory D. Smith
Telephone:	973-889-2540

#### 8. DRUG PRODUCT NAME/CODE/TYPE:





Chemistry Review Data Sheet

Proprietary Name: Flonase<sup>®</sup> Allergy Relief Non-Proprietary Name (USAN): Fluticasone Propionate Chem Type: Type 8 – Partial Rx to OTC Switch Submission Priority: Standard

#### 9. LEGAL BASIS FOR SUBMISSION: 505(b)(1)

# 10. PHARMACOL. CATEGORY: Corticosteroid with anti-inflammatory activity

#### 11. DOSAGE FORM: Nasal Spray

**12. STRENGTH/POTENCY:** 50 µg/actuation

#### **13. ROUTE OF ADMINISTRATION:** Intranasal

**14. Rx/OTC DISPENSED:** Rx <u>X</u>OTC

#### 15a. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM):

\_\_\_\_SPOTS product – Form Completed

X Not a SPOTS product

#### **15b. NANOTECHNOLOGY PRODUCT TRACKING:**

\_\_\_\_NANO product – Form Completed (See Appendix A.4)

X Not a NANO product

#### 16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:

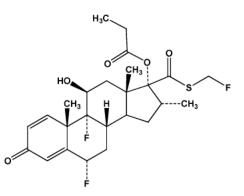
Chemical Name: S-(fluoromethyl)6α,9-difluoro-11β-17-dihydroxy-16α-methyl-3oxoandrosta-1,4-diene-17β-carbothioate, 17-propionate

Structural Formula:





Chemistry Review Data Sheet



Molecular Formula: C<sub>25</sub>H<sub>31</sub>F<sub>3</sub>O<sub>5</sub>S

Molecular Weight: 500.6 g/mol

#### 17. RELATED/SUPPORTING DOCUMENTS: A. DMFs:

DMF #	Туре	Holder	Item Referenced	Code <sup>1</sup>	Status <sup>2</sup>	Date Review Completed	Comments
" (b) (4)	III		(b) (4)	1&4	Adequate	7/16/2009	Reviewed by Z. Ling
	III			4	Adequate	NA	NA
	III			1&4	Adequate	06/24/2013	Reviewed by Y. Lin
	III			1&4	Adequate	10/30/2013	Reviewed by E. Englund
	III			1&4	Adequate	07/30/2010	Reviewed by C. Bertha
	III			1&4	Adequate	10/30/2013	Reviewed by E. Englund
	III			1&4	Adequate	10/03/2011	Reviewed by C. Bertha





#### Chemistry Review Data Sheet

<sup>1</sup>Action codes for DMF Table:

1 – DMF Reviewed.

Other codes indicate why the DMF was not reviewed, as follows:

2 – Type 1 DMF

3 - Reviewed previously and no revision since last review

- 4 Sufficient information in application
- 5 Authority to reference not granted
- 6 DMF not available
- 7 Other (explain under "Comments")

<sup>2</sup>Adequate, Inadequate, or N/A (There is enough data in the application, therefore the DMF did not need to be reviewed)

#### **B. Other Documents:**

Document	Application Number	Description
NDA	20121	Flonase <sup>®</sup> Nasal Spray

#### **18. STATUS**

Consults/ CMC Related Reviews	Recommendation	Date	Reviewer
Microbiology	Approval	05/30/2014	John Metcalfe, Ph.D.
EES	Pending		
Biopharm	N/A		
Methods Validation	Not required. No novel methods.		
Toxicology/Clinical	N/A		
EA	Conducted by CMC reviewer. Granting the categorical exclusion as per 21 CFR 25.31(b).	03/12/2014	Nina Ni, Ph.D.

#### **19. ORDER OF REVIEW**

The application submission(s) covered by this review was taken in the date order of receipt. \_\_X\_Yes \_\_\_\_No If no, explain reason(s) below:

#### **20. EES INFORMATION**

	Drug Substance		
Function	Site Information	FEI/CFN#	Status



(

### CHEMISTRY REVIEW



### Chemistry Review Data Sheet

C1 W 11	FEI	
		Accepted
		based on
	CFN: 9611205	profile
Jurong, Singapore 628413		28-Oct-2013
ClavoSmithVline	EEI.	Accepted
		based on
	5005215057	profile
Monuose, UK		21-Feb-2013
Glaxo Wellcome Production	FEI:	Inspected on
Zone Industrielle No. 2	3002807436	Inspected on 04/07/14 to
23 Rue Lavoisier, France	CFN: 9611905	
27091		04/11/14
Glaxo Wellcome Operations	EEL	Accepted
Priory Street		based on
Ware, Hertfordshire, UK		profile
SG12 0DJ	CFN: 9610411	28-Oct-2013
Drug Product		
Site Information	FEI/CFN#	Status
GlavoSmithKline Inc	FEI	Accepted
-	- 21.	based on
		profile
	CFIN. 9013203	19-Feb-2014
LJN 0L4		19-FC0-2014
Clave Operations LIV 1 td	FEI:	Accepted
	3003722390	based on
	merged into	profile
-	3002807078	24-Oct-2013
DL12 8D1		
	GlaxoSmithKline Cobden St. Montrose, UK Glaxo Wellcome Production Zone Industrielle No. 2 23 Rue Lavoisier, France 27091 Glaxo Wellcome Operations Priory Street Ware, Hertfordshire, UK SG12 0DJ <b>Drug Product</b>	Manufacturing Pte Ltd 1 Pioneer Sector 1 Jurong, Singapore 6284133002807079 CFN: 9611205GlaxoSmithKline Cobden St. Montrose, UKFEI: 3003215057Glaxo Wellcome Production Zone Industrielle No. 2 23 Rue Lavoisier, France 27091FEI: 3002807436 CFN: 9611905Glaxo Wellcome Operations Priory Street Ware, Hertfordshire, UK SG12 0DJFEI: 3003262904 CFN: 9610411Drug ProductFEI/CFN#GlaxoSmithKline, Inc. 7333 Mississauga North Road Mississauga, Ontario Canada L5N 6L4FEI: 3003722390 merged into 3002807078





**Executive Summary Section** 

## **Chemistry Review for NDA 205434**

## **Executive Summary**

#### I. Recommendations

#### A. Recommendation and Conclusion on Approvability

This NDA has provided sufficient information to assure the identity, strength, purity, and quality of the drug product.

The Office of Compliance has <u>not</u> made an overall "Acceptable" recommendation for the facilities involved in this NDA.

The labeling is under review by DMEPA and the Clinical Division of Nonprescription Clinical Evaluation. CMC information provided in the labeling is consistent with the information provided in the NDA.

From CMC perspective, this NDA is recommended for approval pending cGMP recommendation. A final recommendation will be made after OC issues an overall cGMP recommendation.

#### B. Recommendation on Phase 4 (Post-Marketing) Commitments, Agreements, and/or Risk Management Steps, if Approvable

None

#### **II. Summary of Chemistry Assessments**

#### A. Description of the Drug Product(s) and Drug Substance(s)

NDA 205434 was submitted for a partial switch from prescription (Rx) to over the counter (OTC) use. Thus, the original Rx NDA 20121 as well as its CMC supplements and annual reports, which are reviewed and found satisfactory up to date, are referenced for the CMC section of this NDA.

#### (1) Drug Substance

The drug substance fluticasone propionate used to manufacture the proposed OTC product Flonase<sup>®</sup> Allergy Relief in this application is unchanged from that used for the approved Rx Flonase<sup>®</sup> Nasal Spray.





(b) (4)

**Executive Summary Section** 

Information for the drug substance is cross referenced to the Applicant's approved Flonase Nasal Spray NDA 20121, which are reviewed and found satisfactory up to date.

#### (2) Drug Product

The proposed OTC Flonase Allergy Relief Nasal Spray, 50  $\mu$ g is exactly the same in components and composition as the approved Rx Flonase Nasal Spray, 50  $\mu$ g, with spray configurations of  ${}^{(b)}_{(4)}$ , 60,  ${}^{(b)}_{(4)}$ , 120, and  ${}^{(b)(4)}$  actuations. The spray configurations for the approved Rx drug product marketed in US are 50 actuations for the physician sample and 120 actuations for commercial use. The Flonase Allergy Relief Nasal Spray, 50  $\mu$ g is a white, aqueous suspension of  ${}^{(b)(6)}_{(5)}$  fluticasone propionate  ${}^{(b)(4)}_{(6)}$  for topical administration to the nasal mucosa by means of a metering, atomizing spray pump.

All stability batches were manufactured using the proposed commercial manufacturing process at the intended commercial manufacturing site. The





**Executive Summary Section** 

stability data indicate that the drug product physically and chemically stable with no significant change when stored at 30°C for up to 18 months<sup>(b) (4)</sup>

All tested attributes are within the specification. The stability data support the proposed expiration dating period of 24 months for the other actuation configurations when stored at 4 to 30 C (39 to 86°F). The proposed shelf life and storage condition for 60, <sup>(b)</sup> (120, <sup>(b)(4)</sup> actuation configurations in bottles are identical to the approved Rx product. <sup>(b)(4)</sup>

#### B. Description of How the Drug Product is Intended to be Used

Flonase Allergy Relief Nasal Spray, 50  $\mu$ g for topical administration to the nasal mucosa by means of a metering, atomizing spray pump.

#### C. Basis for Approvability or Not-Approval Recommendation

The NDA submission and amendments ultimately provided adequate information on the chemistry, manufacturing, and controls to assure identity, strength, purity, and quality of the drug product, Flonase Allergy Relief Nasal Spray, 50  $\mu$ g. The CMC deficiencies communicated to the applicant during the review have been resolved satisfactorily.

An acceptable cGMP recommendation by the Office of Compliance has <u>not</u> been made yet up to date.

The labeling is under review by DMEPA and the Clinical Division of Nonprescription Clinical Evaluation. CMC information provided in the labeling is consistent with the information provided in the NDA.

From CMC perspective, this NDA is recommended for approval pending cGMP recommendation. A final recommendation will be made after OC issues an overall cGMP recommendation.

46 Page(s) has been Withheld in Full as b4 (CCI/TS) immediately following this page

### This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

\_\_\_\_\_

-----

/s/

\_\_\_\_\_

NINA NI 06/13/2014

DANAE D CHRISTODOULOU

06/13/2014 I concur with the reviewer's conclusion and recommendation

#### Lee, Jung E (OND)

om:	ees_admin@fda.gov
Sent:	Thursday, July 17, 2014 1:12 PM
То:	Godwin, Francis; Lee, Jung E (OND); Salganik, Maria*; Spain, Nancy *; Ni, Nina; McKnight, Rebecca; De, Swapan K; Kyada, Yogesh*
Subject:	Overall OC Recommendation NDA 205434/000 Decision: ACCEPTABLE, Decision Date: 07/17/2014, Re-evaluation Date: 09/25/2015
Follow Up Flag:	Follow up
Flag Status:	Flagged
Categories:	Print

This is a system generated email message to notify you that the Overall Compliance Recommendation has been made for the above Application.

For general questions about how to use EES in your work, send an email to EESQUESTIONS (EESQUESTIONS@cder.fda.gov). To contact the EES technical staff, send an email to CDER EES Help (EESHELP@fda.hhs.gov). Thank you.

<b>ation</b> :	ND	A 205434/0	000		Spons	ior:	GLAXOSM	ITHKLINE	CONS
ode:	560	)					1500 LITTI	LETON RD	
Priority:	8						PARSIPPA	NY, NJ 07	0543884
Stamp Date:	23-	SEP-2013			Brand	Name:	FLONASE PROP	ALLERGY	RELIEF (FLUTICASONE
PDUFA Date:	23-	JUL-2014			Estab.	. Name:	11101		
Action Goal:					Gener	ic Name:			
District Goal:	24-	MAY-2014			Produ	ct Number; D	osage Form	; ingredie	nt; Strengths
					00	01; SPRAY, ME	TERED; FLU	JTICASON	E PROPIONATE; .05MG
FDA Contacts:	N. NI		Prod Qu	al Review	er				3017965296
	R. MCKNK	ЭНТ	Product	Quality Pl	м				3017961765
	J. LEE		Regulat	ory Projec	t Mgr				3017963599
	S. DE		Team Lo	eader					3017961664
Overall Recomm	nendation:		ACCEPTABLE		on 17-JUL-2014	by E. DOBB	IN	0	2404024266
			PENDING		on 21-FEB-2014	by EES_PR	DD		
			PENDING		on 07-NOV-2013	•			
			PENDING		on 24-OCT-2013				
			PENDING		on 23-OCT-2013	by EES_PRO	50		
Establishment:		CFN:	9610411	FEI:	3003262904				
			OPERATIONS UK LI	MITED					
DMF No:		WARE,	HERTFORDSHIRE, U	JNITED K	INGDOM	AADA:			
Responsibilities	u.	DRUG	UBSTANCE	(b) (4)					
Profile:	-		ERILE API BY CHEM	AICAL SY	NTHESIS	OAI Status:	NONE		
Last Milestone:			OMMENDATION						
Milestone Date:		28-OCT	-2013						
Decision:		ACCEP	TABLE						
Reason:		BASED	ON PROFILE						
							· · · · · · · · · · · · · · · · · · ·		

Establishment:	CFN: 9611205	FEI: 3002807079		
	GLAXO WELLCOME MANUFAC 1 PIONEER, SECTOR 1	TURING PTE LIMITED		
DMF No:	SINGAPORE, , SINGAPORE		AADA:	
Responsibilities:	DRUG SUBSTANCE MANUFAC	TURER	~~~~.	
Profile:	NON-STERILE API BY CHEMIC		OAI Status:	NONE
	OC RECOMMENDATION			
Last Milestone:	28-OCT-2013			
Milestone Date:				
Decision:	ACCEPTABLE			
Reason:	BASED ON PROFILE			
Establishment:	CFN: 9610421	FEI: 3002807078	· · · · · · · · · · · · · · · · · · ·	·····
	GLAXOSMITHKLINE HARMIRE ROAD			
	BARNARD CASTLE, , UNITED	KINGDOM		
DMF No: Responsibilities:	FINISHED DOSAGE STABILITY	TERTED	AADA:	
Profile:	CONTROL TESTING LABORAT		OAI Status:	NONE
			OAI Olalus.	NONE
Last Milestone:				
Milestone Date:	24-OCT-2013			
Decision:	ACCEPTABLE			
Reason:	BASED ON PROFILE			
Establishment:	CFN:	FEI: 3003215057		<u> </u>
	GLAXOSMITHKLINE COBDEN STREET			
	MONTROSE, , UNITED KINGDO	M		
DMF No:			AADA:	
Responsibilities:			O & Bachura	NONE
Profile:	NON-STERILE API BY CHEMIC	al otninesis	OAI Status:	NONE
Last Milestone:	OC RECOMMENDATION			
Milestone Date:	25-FEB-2014			
Decision:	ACCEPTABLE			
Reason:	DISTRICT RECOMMENDATION	l		

.

"shment:	CFN: 9615283	FEI: 3002807086		
	GLAXOSMITHKLINE INC 7333 MISSISSAUGA NORTH R	OAD		
	MISSISSAUGA, ONTARIO, CAI	NADA		
DMF No:			AADA:	
Responsibilities:	FINISHED DOSAGE MANUFAC			
Profile:		(b) (4)	OAI Status:	NONE
Last Milestone:	OC RECOMMENDATION			
Milestone Date:	25-FEB-2014			
Decision:	ACCEPTABLE			
Reason:	DISTRICT RECOMMENDATION	N		
Establishment:	CFN: 9611905	FEI: 3002807436		· · · · · · · · · · · · · · · · · · ·
	GLAXOWELLCOME PRODUCT 23 RUE LAVOISIER B.P. 118	ΓΙΟΝ		
	EVREUX, , FRANCE			
DMF No:			AADA:	
Responsibilities:	DRUG SUBSTANCE (t	b) (4)		
Profile:	NON-STERILE API BY CHEMIC	CAL SYNTHESIS	OAI Status:	NONE
Last Milestone:	OC RECOMMENDATION			
Milestone Date:	17-JUL-2014			
″ 'on:	ACCEPTABLE			
A:	DISTRICT RECOMMENDATION	N		

## Initial Manufacturing (CGMP/Facilities) Assessment (IMA) and Filing Review for Pre-Marketing Applications (Original)

- I. Review Cover Sheet
- II. Application Detail
- III. Filing Checklist
- IV. Manufacturing Summary
- V. Overall Conclusions and Recommendations

### I. Review Cover Sheet

- 1. OMPQ Reviewer: Juandria Williams/Robert H. Wittorf
- NDA/BLA Number: NDA 205434
   Submission Date: September 23, 2013
   21<sup>st</sup> C. Review Goal Date: TBD
   PDUFA Goal Date: July 23, 2014

#### 3. PRODUCT PROPERTIES:

Trade or Proprietary Name:	Flonase® Allergy Relief				
Established or Non-Proprietary Name (USAN) and strength:	Fluticasone Propionate Nasal Spray, 50 mcg				
Dosage Form:	Spray, metered				

#### 4. SUBMISSION PROPERTIES:

Review Priority :	STANDARD					
Applicant Name:	GlaxoSmithKline Consumer Healthcare					
Responsible Organization (OND Division):	DNCE					

## II. Application Detail

- 1. INDICATION: For the relief of the nasal and ocular symptoms associated with allergic <sup>(b) (4)</sup> rhinitis <sup>(b) (4)</sup> years and older.
- 2. ROUTE OF ADMINISTRATION: Intranasal
- 3. STRENGTH/POTENCY: 50 mcg
- 4. Rx/OTC DISPENSED: Rx xOTC
- 5. ELECTRONIC SUBMISSION (yes/no)? Yes
- 6. PRIORITY CONSIDERATIONS:

	Damaged	X	NT -	TT	Comment.
	Parameter	Yes	No	Unk	Comment
1.	NME / PDUFA V		х		
2.	Breakthrough Therapy		x		
2.	Designation		~		
3.	Orphan Drug		x		
5.	Designation		л		
4.	Unapproved New Drug		х		
5.	Medically Necessary		v		
5.	Determination		х		
	Potential Shortage				
6.	Issues [either alleviating		x		
0.	or non-approval may		А		
	cause a shortage]				
7.	Rolling Submission		x		
	Drug/device				
8.	combination product		х		
	with consult				
9.	Complex manufacturing		х		
10	Other (e.g., expedited				
10.	for an unlisted reason)		х		

## **III. FILING CHECKLIST**

The following parameters are necessary in order to initiate a full review (i.e., the application is complete enough to start review but may have deficiencies). On **initial** review of the NDA application:

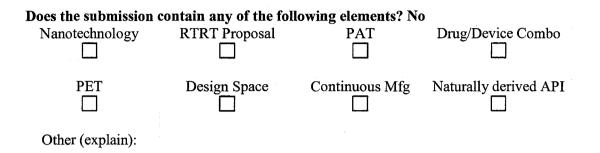
	A. COMPLETENESS OF FACILITY INFORMATION						
	Parameter	Yes	No	Comment			
11.	responsibilities, address)?	x		DS and DP sites in 356h; DP sites also listed in 3.2.P.2.1			
12.	Do all sites indicate they are ready to be inspected (on 356h)?	x					
13.	Is a single comprehensive list of all involved facilities available in one location in the application?	х		DP: 3.2.P.2.1 and 356h DS: listed in 356h			
14.	For testing labs, is complete information provided regarding which specific test is performed at each facility and what stage of manufacturing?	x		DP: 3.2.P.2.1; and 356h DS: 356h			
15.	<ul> <li>Additional notes (non-filing issue)</li> <li>1. Are all sites registered or have FEI #?</li> <li>2. Do comments in EES</li> </ul>	x					
	<ul><li>indicate a request to participate on inspection(s)?</li><li>3. Is this first application by the applicant?</li></ul>		x x	· · · · · · · · · · · · · · · · · · ·			

\*If any information regarding the facilities is missing/omitted, communicate to OPS/ONDQA regarding missing information and copy EESQuestions. Notify OMPQ management if problems are not resolved within 3 days and it can be a *potential* filing issue.

	B. DRUG SUBSTANCE (DS) / DRUG PRODUCT (DP)							
	Parameter	Yes	No	Comment				
16.	Have any Comparability Protocols been requested?		x					

1	IMA CONCLUSION					
	Parameter	Yes	No	Comment		
17.	Does this application fit one of the EES Product Specific Categories?		x			
18.	Have EERs been cross referenced against the 356h and product specific profile for accuracy and completion?	x				
	Have all EERs been updated with final PAI recommendation?	x				
19.	From a CGMP/facilities perspective, is the application fileable? If the NDA is not fileable from a product quality perspective, state the reasons and provide filing comments to be sent to the Applicant.	x				

### **IV. Manufacturing Summary: Critical Issues and Complexities**



**Manufacturing Highlights** 

Reference ID: 3602882

The subject NDA provides for a change in the marketing status of the indication for the relief the nasal and ocular symptoms associated with allergic (b) (4) rhinitis (b) (4)

<sup>(b) (4)</sup> for Flonase Nasal Spray from Rx (as provided for in NDA 20121) to over-thecounter (OTC).

#### 1. Drug Substance

Parameter	Yes	No	Comment		
Is manufacturing process considered complex (e.g., unusual unit operations, innovative manufacturing technology, unusual control strategy)?		x	DS process <sup>(b) (4)</sup> approved for Rx under NDA 20121		

The drug substance used to manufacture the proposed OTC finished product is the same as that for the approved and marketed Rx Flonase Nasal spray under NDA 20121.

#### 2. Drug Product

Parameter	Yes	No	Comment		
Is manufacturing process considered complex (e.g., unusual unit operations, innovative manufacturing technology, unusual control strategy)?		x	DP process <sup>(b) (4)</sup> approved for Rx under NDA 20121		

Per Section 3.2.P.3.3 "Description of Manufacturing Process and Process Controls" The drug product is manufactured (b) (4)

No critical issues with respect to the manufacturing of the drug product are noted. In 2002, an inspection (Facility FEI#3002807078, GlaxoSmithKline, Inc.)

was conducted and appropriate corrective actions were implemented. The inspection was classified as NAI.

# 3. Facility-Related Risks (e.g., expected in-process testing not being performed, questionable development, unexplained stability failures, data integrity issues, etc.). Describe any potential 21CFR 211 compliance issues.

The facilities used to manufacture the finished product remain unchanged. A review of facility inspectional history and product was conducted. No facility-related risks were identified at the time of this review.

## 4. Drug Product Facility Inspectional History that could impact the manufacturing of this product

The drug product site was reviewed for inspectional trends, product specific issues, and manufacturing processes. As noted above, a 2002 on-site inspection was conducted for the drug product manufacturer under NDA 20121, which was classified NAI. No additional facility inspectional history that could impact the drug product is noted. All sites are currently approved under NDA 20121 for Rx version of the drug product.

#### Additional information not covered above

No additional information

Establishment Name	EER Creation Date	FEI Num		Country Code	Responsibilities	Profile Code	Inspection History, Dates, Classifications	PAI Recommendation	Most Recent Milestone	Most Recent EER Compliance Status	Comment
GLAXO WELLCOME MANUFACTURING PTE LIMITEO	10/24/2013	3002807079	ROW	SGP	Manufacturing	CSN	11/12-16/2012 VAI	28-Oct-2013 Based on Profile	OC RECOMMENDATION	AC	EER Re-eval: 16-Nov-2015
GLAXOWELLCOME PRODUCTION	10/24/2013	3002807436	WEU	FRA	Manufacturing (b) (4) <sub>I,</sub> Testing	CSN	3/16-19/2012 NAJ	28-Oct-2013 GMP	ASSIGNED INSPECTION TO (4)	₽N	In DO Mailbox for CSN profile (not covered in 2012, last covered in 2009)- ADM, TCM, and POW covered in 2012
GLAXOSMITHKLINE	11/7/2013	3003215057	WEU	GBR	Manufacturing	CSN	05/27-31/2013 VAI	07-Nov-2013 Based on Profile	OC RECOMMENDATION	AC	EER Re-eval: 31-May-2016
GLAXO OPERATIONS UK LIMITED	10/24/2013	3003262904	WEU	GBR	Manufacturing (b) (4) ), Testing	CSN	4/17-25/2013 VAI	28-Oct-2013 Based on Profile	OC RECOMMENDATION	AC	EER Re-eval: 16-Nov-2015
GLAXOSMITHKLINE	10/2/2013	3002807078	WEU	GBR	Stability Testing	CTL	4/292012-5/9/2012 VAI	24-Oct-2013 Based on Profile	OC RECOMMENDATION	AC .	EER Re-eval: 09- May-2016 Merged FE: 3003722390
GLAXOSMITHKLINE INC	10/2/2013	3002807086	AME	CAN	Manufacturing (DP), Release Testing, Packaging	LIQ	9/19/2012- 2/05/2013 NAI	24-Oct-2013 GMP	UNDER REVIEW	PN	Previously inspected in September 2013 but only 1 of 7 profiles was updated even though (b) (4) coverage was claimed

Manufacturing Facilities Ch	hart (generated from 602A DARRTS report and OMPQ macro):
-----------------------------	--

For each EER, indicate PAI recommendation on the Manufacturing Facilities Chart above (e.g., PS, GMP, 10 Day, AC based on file review). This is the recommendation that will be entered into EES.

## V. Overall Conclusions and Recommendations

Is the application fileable? Yes	
Based on Section IV, is a KTM	warranted for any PAI? No
Ann there commontelisence to b	
appropriate identification of fa	e included in the 74 day letter, including cilities? No
	•
appropriate identification of fa	•

## **REVIEW AND APPROVAL**

#### This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

\_\_\_\_\_\_

ROBERT H WITTORF 12/20/2013

MAHESH R RAMANADHAM 12/20/2013

Reference ID: 3426282

Reference ID: 3602882

## **IQA and Filing Review Cover Sheet**

#### 1. NEW DRUG APPLICATION NUMBER: 205-434

#### 2. DATES AND GOALS:

Letter Date: 09/23/2013	Submission Received Date : 09/23/2013
PDUFA Goal Date: 07/23/2014	

#### 3. PRODUCT PROPERTIES:

Trade or Proprietary Name:	Flonase Allergy Relief	
Established or Non-Proprietary	Fluticasone propionate aqueous nasal spray, 50 mcg/metered	
Name (USAN):	spray	
Dosage Form:	Nasal spray	
Route of Administration	Intranasal	
Strength/Potency	50 mcg/metered spray	
Rx/OTC Dispensed:	OTC	

4. INDICATION: Temporarily relieves these symptoms due to hay fever, other

respiratory allergies,

nasal congestion, runny nose, sneezing, itchy nose, itchy,

watery eyes.

#### 5. DRUG SUBSTANCE STRUCTURAL FORMULA:

 $S-(fluoromethyl)6\alpha,9\alpha-difluro-11\beta,17-dihydroxy-16\alpha-methyl-3-oxoandrosta-$ 

1,4-diene- $17\beta$ -carbothioate, 17-propionate

6. NAME OF APPLICANT (as indicated on Form 356h):

GlaxoSmithKline Consumer Healthcare 1500 Littleton Road Parsipanny, NJ 07054 (b) (4)

#### ONDQA Initial Quality Assessment (IQA) and Filing Review For Pre-Marking Applications

#### 7. SUBMISSION PROPERTIES:

Review Priority:	Standard
Submission Classification (Chemical Classification Code):	Type 8- Partial Rx to OTC Switch
Application Type:	505(b)(1)
Breakthrough Therapy	No
Responsible Organization (Clinical Division):	Division of Nonprescription Clinical Evaluation (DNCE)

#### 8. CONSULTS:

CONSULT	YES	NO	COMMENTS: (list date of request if already sent)
Biometrics	Х		
Clinical Pharmacology	X		
Establishment Evaluation	X		
Request (EER)	Λ		
Pharmacology/Toxicology	X		
Methods Validation	X		
Environmental Assessment	X		
CDRH		Х	
Other		Х	

## **Overall Filing Conclusions and Recommendations**

## CMC:

Is the Product Quality Section of the application fileable from a CMC perspective?							
Yes							
CMC Filing Issues:							
1 None							

## Are there potential CMC review issues to be forwarded to the Applicant with the 74-Day letter?

 No

 CMC Comments for 74-Day Letter:

- 1. Provide a Letter of Authorization (LoA) to the Drug Master File (DMF (b) (4)) supporting the dust cap.
- 2. Submit updated stability data including updated stability summary for the NDA batches.
- 3. Submit stability data to support your proposed storage statement "Store between 4° and 30°C (39° and 86°F)".

## **Biopharmaceutics:**

 Is the Product Quality Section of the application fileable from a Biopharmaceutics perspective?

 Yes
 No

 Biopharmaceutics Filing Issues:
 1.

 N/A
 V/A

Are there potential Biopharmaceutics review issues to be forwarded to the Applicant with the 74-Day letter?

Yes No Biopharmaceutics Comments for 74-Day Letter: 1.

## Microbiology:

 Is the Product Quality Section of the application fileable from a Microbiology perspective?

 Yes
 No

 Microbiology Filing Issues:
 See Microbiology Filing Review for details and for any potential Microbiology review issues. (Microbiology filing review is pending at this time).

#### ONDQA Initial Quality Assessment (IQA) and Filing Review For Pre-Marking Applications

### **Summary of Initial Quality Assessment**

Does the submission contain any of the following elements?							
NanotechnologyQbD ElementsPETOther, please explain							
No	No	No					

#### Is a team review recommended?

Suggested expertise for team:

#### **Summary of Critical Issues and Complexities**

#### **Drug Product:**

.

• Changes between the approved Rx and proposed OTC drug product are included in Module 2 which should be evaluated in-depth.

- The applicant proposed that product label will have the storage statement "Store between 4° and 30°C (39° and 86°F)".
- Has adequate justification been provided for the microbial limits test in the release specification of the drug product? Microbiological Attributes section 3.2.P.2.5 is included and needs a consult review by a microbiologist.
- It is noted that stability data for only <sup>(b) (4)</sup>, 2 batches for 60 spray count, 1 batch each for 120 <sup>(b) (4)</sup> spray count configuration is bracketed by the 60 and 120 spray configurations. Is the submitted 12-month stability data <sup>(b) (4)</sup> for the drug product enough to

No

(b) (4)

support the proposed 24-month shelf-life of the drug products for all configurations (b) (4) 60, (b), 120 (b) (4)?

# **Initial Quality Assessment**

#### **Summary:**

This is a CTD formatted NDA application for Flonase® (fluticasone propionate nasal spray, 50 mcg) submitted as a 505(b)(1) NDA with reference to previously approved Rx NDA for Flonase (NDA 20-121). *Flonase Allergy Relief* Nasal Spray, 50 mcg is exactly the same in composition as the approved Rx Flonase® Nasal Spray, 50 mcg. It is a white, (b)(4) suspension of (b)(4) fluticasone propionate (b)(4) for topical administration to the nasal mucosa by means of a metering, atomizing spray pump.

Flonase was originally approved in 1994 for the management of the nasal symptoms of seasonal (SAR) and perennial (PAR) allergic rhinitis in adults and adolescents 12 years of age and older. However, Rx Flonase approval was expanded later to include pediatric patients (4 years of age and older) and patients with perennial non-allergic rhinitis (PNAR). GSK CH is seeking approval for the use of OTC *Flonase Allergy Relief* for the temporary relief of the following symptoms due hay fever, other respiratory allergies

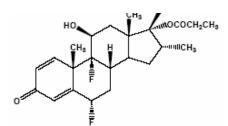
nasal congestion, runny

nose, sneezing, itchy nose, and itchy, watery eyes.

Flonase is currently sold as a nonprescription treatment for allergies in 13 countries (UK, New Zealand, Ireland, Denmark, Finland, Sweden, China, Latvia, Estonia, South Africa, Singapore and Slovenia.

#### **Drug Substance:**

The Drug substance, Fluticasone Propionate used to manufacture the proposed OTC finished product, *Flonase Allergy Relief* Nasal Spray, 50 mcg is identical with the drug substance used for the approved and marketed Rx Flonase® Nasal Spray NDA 20-121. Therefore, drug substance section is cross referenced to the approved Rx Flonase® Nasal Spray NDA 20-121 as agreed in the Pre-NDA meeting. To facilitate review, the applicant has provided a table (Section 2.3.S) to locate appropriate (updated) information. Chemical Structure and formula is shown below (taken from NDA 21-121)



Fluticasone propionate Molecular formula:  $C_{25}H_{31}F_3O_5S$ Molecular weight: 500.57 CAS Registry Numbers: 80474-14-2; 90566-53-3 (fluticasone base).

Specification for Fluticasone Propionate (b) (4) Taken from NDA 20-121

Office of New Drug Quality Assessment (ONDQA) NDA 205-434(Flonase Allergy Relief Nasal Spray, 50 mcg) (b) (4)

(b) (4)

#### **Drug Product:**

The OTC *Flonase Allergy Relief* Nasal Spray, 50 mcg is identical in composition as the approved Rx Flonase® Nasal Spray, 50 mcg. There is no change to the drug product composition, manufacturing process, site of manufacture or the process controls. In addition, it will be dispensed using the same metered-dose spray pump as the Rx product. Proposed OTC Flonase Allergy Relief Nasal Spray drug product will be different from the Rx product regarding container closure system.

The appearance of OTC drug product dust cover will be (b) (4) green with a debossed logo instead of Rx product dust cover which is (b) (4) green without a logo.

(b) (4)

5 Page(s) has been Withheld in Full as b4 (CCI/TS) immediately following this page

Office of New Drug Quality Assessment (ONDQA) NDA 205-434(Flonase Allergy Relief Nasal Spray, 50 mcg)

# FILING REVIEW CHECKLIST

The following parameters are necessary in order to initiate a full review, i.e., complete enough to review but may have deficiencies. On **initial** overview of the NDA application for filing:

	A. GENERAL					
	Parameter	Yes	No	Comment		
1.	Is the CMC section organized adequately?	Х		Refers to NDA 20-121		
2.	Is the CMC section indexed and paginated (including all PDF files) adequately?		X	Refers to NDA 20-121		
3.	Are all the pages in the CMC section legible?	Х		Refers to NDA 20-121		
4.	Has all information requested during the IND phase, and at the pre-NDA meetings been included?	Х		Refers to NDA 20-121		

	B. FACILITIES*				
*	* If any information regarding the facilities is omitted, this should be addressed ASAP with the applicant and can be a <i>potential</i> filing issue or a <i>potential</i> review issue.				
	Parameter	Yes	No	Comment	
5.	Is a single, comprehensive list of all involved facilities available in one location in the application?	Х		Refers to NDA 20-121; Section 1.1.2	
6.	For a naturally-derived API only, are the facilities responsible for critical intermediate or crude API manufacturing, or performing upstream steps, specified in the application? If not, has a justification been provided for this omission? <b>This question is</b> <b>not applicable for synthesized</b> <b>API.</b>			N/A	

	Parameter	Yes	No	Comment
7.	<ul> <li>Are drug substance manufacturing sites identified on FDA Form 356h or associated continuation sheet? For each site, does the application list:</li> <li>Name of facility,</li> <li>Full address of facility including street, city, state, country</li> <li>FEI number for facility (if previously registered with FDA)</li> <li>Full name and title, telephone, fax number and email for on-site contact person.</li> <li>Is the manufacturing responsibility and function identified for each facility?, and</li> <li>DMF number (if applicable)</li> </ul>	Х		Section 1.1.2
8.	<ul> <li>Are drug product manufacturing sites identified on FDA Form 356h or associated continuation sheet. For each site, does the application list:</li> <li>Name of facility,</li> <li>Full address of facility including street, city, state, country</li> <li>FEI number for facility (if previously registered with FDA)</li> <li>Full name and title, telephone, fax number and email for on-site contact person.</li> <li>Is the manufacturing responsibility and function identified for each facility?, and</li> <li>DMF number (if applicable)</li> </ul>	Х		5 manufacturing facilities are entered to the EES system for inspection.

	Parameter	Yes	No	Comment
9.	<ul> <li>Are additional manufacturing, packaging and control/testing laboratory sites identified on FDA Form 356h or associated continuation sheet. For each site, does the application list:</li> <li>Name of facility,</li> <li>Full address of facility including street, city, state, country</li> <li>FEI number for facility (if previously registered with FDA)</li> <li>Full name and title, telephone, fax number and email for on-site contact person.</li> <li>Is the manufacturing responsibility and function identified for each facility?, and</li> <li>DMF number (if applicable)</li> </ul>	X		
10.	Is a statement provided that all facilities are ready for GMP inspection at the time of submission?	Х		

	C. ENVIRONMENTAL ASSESMENT				
	Parameter	Yes	No	Comment	
11.	Has an environmental assessment or claim of categorical exclusion been provided?	Х		Justification is included in Module 1.12.14	

	D. DRUG SUBSTANCE/ACT	TIVE P	HAR	MACEUTICAL INGREDIENT (DS/API)
	Parameter	Yes	No	Comment
12.	Does the section contain a description of the DS manufacturing process?		X	Refers to NDA 20-121
13.	Does the section contain identification and controls of critical steps and intermediates of the DS?		X	Refers to NDA 20-121
14.	Does the section contain information regarding the characterization of the DS?		X	Refers to NDA 20-121
15.	Does the section contain controls for the DS?		X	Refers to NDA 20-121
16.	Has stability data and analysis been provided for the drug substance?		X	Refers to NDA 20-121
17.	Does the application contain Quality by Design (QbD) information regarding the DS?		X	
18.	Does the application contain Process Analytical Technology (PAT) information regarding the DS?		X	

	E. DRUG PRODUCT (DP)						
	Parameter	Yes	No	Comment			
19.	Is there a description of manufacturing process and methods for DP production through finishing, including formulation, filling, labeling and packaging?	Х		Refers to NDA 20-121			
20.	Does the section contain identification and controls of critical steps and intermediates of the DP, including analytical procedures and method validation reports for assay and related substances if applicable?	Х		Refers to NDA 20-121			
21.	Is there a batch production record and a proposed master batch record?	X		Refers to NDA 20-121			
22.	Has an investigational formulations section been provided? Is there adequate linkage between the investigational product and the proposed marketed product?	X		Refers to NDA 20-121			
23.	Have any biowaivers been requested?		Х				
24.	Does the section contain description of to-be-marketed container/closure system and presentations?		Х				
25.	Does the section contain controls of the final drug product?	Х		Refers to NDA 20-121			
26.	Has stability data and analysis been provided to support the requested expiration date?	X					
27.	Does the application contain Quality by Design (QbD) information regarding the DP?	X					
28.	Does the application contain Process Analytical Technology (PAT) information regarding the DP?	X					

	F. METHODS VALIDATION (MV)					
	Parameter	Yes	No	Comment		
29.	Is there a methods validation package?		X	Refers to NDA 20-121		

Office of New Drug Quality Assessment (ONDQA) NDA 205-434(Flonase Allergy Relief Nasal Spray, 50 mcg)

	G. MICROBIOLOGY					
	Parameter	Yes	No	Comment		
30.	If appropriate, is a separate microbiological section included assuring sterility of the drug product	X		Refers to NDA 20-121		

	H. MASTER FILES (DMF/MAF)					
	Parameter	Yes	No	Comment		
31.	Is information for critical DMF references (i.e., for drug substance and important packaging components for non- solid-oral drug products) complete?	X		Refers to NDA 20-121		

DMF # TYPE	HOLDER	ITEM REFERENCED	LOA DATE	COMMENTS
(b) (5) III		(b) (5)	07/12/2013	
III			07/03/2013	
III			04/30/2013	
III			04/30/2013	
			04/30/2013	
			04/30/2013	

	I. LABELING					
	Parameter	Yes	No	Comment		
32.	Has the draft package insert been provided?	Х				

Office of New Drug Quality Assessment (ONDQA) NDA 205-434(Flonase Allergy Relief Nasal Spray, 50 mcg)

22	Have the immediate container	X	
55.	and carton labels been provided?		

*{When applicable, paste the Biopharmaceutics Filing Checklist table here. Whether a Biopharmaceutics Filing Checklist table is added here or not, delete this note.}* 

This document will be sequentially signed in DARRTS by all of the following who authored or reviewed this assessment:

See appended electronic signature page}

Swapan K De, Ph.D. CMC-Lead Division of New Drug Quality Assessment III Office of New Drug Quality Assessment

{See appended electronic signature page}

NAME N/A Biopharmaceutics Reviewer Office of New Drug Quality Assessment

{See appended electronic signature page}

NAME N/A Biopharmaceutics Team Leader or Designee Office of New Drug Quality Assessment

{See appended electronic signature page}

Danae Christodoulou, Ph.D. Acting Branch Chief Division of New Drug Quality Assessment III Office of New Drug Quality Assessment

# This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

\_\_\_\_\_

------/s/

\_\_\_\_\_

SWAPAN K DE 11/12/2013

DANAE D CHRISTODOULOU 11/12/2013