CENTER FOR DRUG EVALUATION AND RESEARCH

BLA APPLICATION NUMBER: 125156

ADMINISTRATIVE / CORRESPONDENCE DOCUMENTS

MEMORANDUM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

CLINICAL INSPECTION SUMMARY

DATE:

June 28, 2006

TO:

Lori Gorski, Regulatory Project Manager Rhea Lloyd, M.D., Title, Clinical Reviewer

Division of Anti-Infective and Ophthalmology Products, HFD-550

THROUGH: Leslie K. Ball, M.D.

Branch Chief

Good Clinical Practice Branch 2, HFD-47 Division of Scientific Investigations

FROM:

Mathew T. Thomas, MD., Pharmacologist

SUBJECT:

Evaluation of Clinical Inspections

BLA:

125156

NME:

Yes

APPLICANT:

Genentech

DRUG:

ranibizumab (Lucentis)

THERAPEUTIC

CLASSIFICATION: Priority

INDICATION:

Treatment

of neovascular age-related macular

degeneration.

CONSULTATION

REQUEST DATE:

May 8, 2006

DIVISION ACTION

GOAL DATE:

June 30, 2006

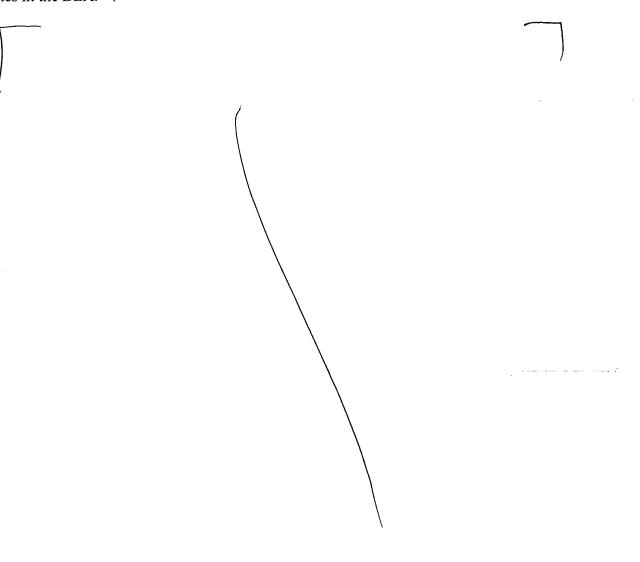
PDUFA DATE:

June 30, 2006

I. BACKGROUND:

On May 8, 2006, the Review Division issued a consult to DSI for inspecting __study sites involved in two study protocols (#s FVF2587g and FVF2598g) from which data were submitted in support of BLA 125526. The PDUFA date for this BLA was June 30, 2006. The BLA was for ranibizumab injection (Lucentis) for the treatment ______ of neovascular age-related macular degeneration.

The review division did not have any specific concerns about the data from any of the study sites in the BLA. Γ



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§ 552(b)(5) Deliberative Process

An inspection summary addendum will be generated if conclusions change upon receipt and review of the EIRs.

Mathew T. Thomas, MD Pharmacologist

CONCURRENCE:

Supervisory comments

Leslie K. Ball, M.D. Branch Chief Good Clinical Practice Branch II Division of Scientific Investigations

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_____ § 552(b)(4) Draft Labeling

_____ § 552(b)(5) Deliberative Process

Gorski, Lori M

From:

Harper Velazguez, Tia M

nt:

Monday, June 19, 2006 10:19 AM

ပ:

Gorski, Lori M

Subject:

FW: Compliance Check for BLA 125156/0

Hi Lori - forwarding this for the action packet for BLA 125156/0. Thanks. Tia

Tia M. Harper-Velazquez, Pharm.D.

Lt. Commander, USPHS

Project Manager

Office of Compliance, HFD-300 Phone: 301-827-8995 (MM2) Phone: 301-443-5140 (Rockwall 2)

Fax:

301-443-5245

From: Sent:

Ferguson, Shirnette D

Friday, June 16, 2006 11:15 AM

To:

Hughes, Patricia

Cc:

CDER-TB-EER; Harper Velazquez, Tia M

Subject:

FW: Compliance Check for BLA 125156/0

The Investigations and Preapproval Compliance Branch has completed the review and evaluation of the Therapeutic Piologic-EER request below. There are no pending or ongoing compliance actions to prevent approval of STN 125156/0 at 3 time.

The following is the current status for the submitted sites:

Manufacturer

FEI# **Profile Class**

Profile Status

EIR Classification

Shirnette

From:

Cruz, Concepcion

Sent:

Friday, June 16, 2006 10:06 AM

To:

Ferguson, Shirnette D

Subject:

FW: Compliance Check for BLA 125156/0

F → F [aka Friday to Ferguson]

Coki Cruz

From: Hughes, Patricia

Sent: Friday, June 16, 2006 10:05 AM

: CDER-TB-EER

ند: Harper Velazquez, Tia M; Uratani, Brenda W; Clark-Stuart, Michelle; Cruz, Concepcion

Subject: Compliance Check for BLA 125156/0

Please complete a compliance check in support of a new BLA for the two drug product manufacturing sites listed below (under Manufacturing Facilities for drug product):

7

plication - BLA: STN 125156/0 from Genentech, Inc., South San Francisco roduct: Lucentis (ranlbizumab) Indication: Treatment of neovascular age-related macular degeneration

Manufacturing Facilities for drug product:

PDUFA Date: 01 July 2006

Thank you.

Patricia

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_____ § 552(b)(5) Deliberative Process

§ 552(b)(4) Trade Secret / Confidential

_____ § 552(b)(4) Draft Labeling

_____ § 552(b)(5) Deliberative Process

CONSULTATION RESPONSE

DIVISION OF MEDICATION ERRORS AND TECHNICAL SUPPORT OFFICE OF SURVEILLANCE AND EPIDEMIOLOGY

(DMETS; White Oak 22, Mail Stop 4447)

DATE RECEIVED:	DESIRED COMPLETION DATE:	OSE CONSULT #: 05-0211
August 11, 2005	October 11, 2005	
DOCUMENT DATE:		
August 3, 2005	PDUFA DATE: June 30, 2006	

TO:

Janice Soreth, M.D.

Director, Division of Anti-Infective and Ophthalmology Products

HFD-520

THROUGH:

Linda Y. Kim-Jung, Pharm.D., Team Leader Denise Toyer, Pharm.D., Deputy Director

Carol Holquist, R.Ph., Director

Division of Medication Errors and Technical Support

FROM:

Todd D. Bridges, R.Ph., Safety Evaluator

Division of Medication Errors and Technical Support

PRODUCT NAME:

Lucentis

(Ranibizumab Injection)

0.5 mg/0.05 mL

<u>A #: 125156 (IND #: -</u>

.ECOMMENDATIONS:

1. DMETS has no objections to the use of the proprietary name, Lucentis. DMETS considers this a final review. However, if approval of the application is delayed beyond 90 days from the signature date of this review then the name and its labels and labeling must be re-evaluated. A re-review of the name prior to BLA approval will rule out any objections based upon approvals of other proprietary or established names from the signature date of this document.

SPONSOR: Genentech

2. DMETS recommends implementation of the label and labeling revisions outlined in Section III of this review in order to minimize potential errors with use of this product.

Division of Medication Errors and Technical Support Office of Surveillance and Epidemiology WO 22, MAIL STOP 4447 Center for Drug Evaluation and Research

PROPRIETARY NAME REVIEW

DATE OF REVIEW:

September 15, 2005

BLA #:

125156 (IND #: ---

NAME OF DRUG:

Lucentis

(Ranibizumab Injection)

0.5 mg/0.05 mL

IND SPONSOR:

Genentech

I. INTRODUCTION

This consult was written in response to a request from the Division of Anti-Infective and Ophthalmology Products (HFD-520), for assessment of the proprietary name, Lucentis, regarding potential name confusion with other proprietary or established drug names. Container labels, carton and insert labeling were submitted for review and comment. Additionally, the sponsor submitted an independent name analysis prepared by

PRODUCT INFORMATION

Lucentis is an angiogenesis inhibitor indicated for treatment of the wet form of age-related macular degeneration. The recommended dose is 0.5 mg administered intravitreally once every month. Lucentis, which will require refrigeration, will be supplied as a — single-dose vial and packaged with a filter needle and a needle for injection.

II. RISK ASSESSMENT:

The medication error staff of DMETS conducted a search of several standard published drug product reference texts^{i,ii} as well as several FDA databases^{iii,iv} for existing drug names which sound-alike or look-alike to . ——to a degree where potential confusion between drug names could occur under the usual clinical practice settings. A search of the electronic online version of the U.S. Patent and Trademark Office's Text and Image Database was also conducted^v. The SAEGIS^{vi} Pharma-In-Use database was searched for drug names with potential for confusion. An expert panel discussion was conducted to review all findings from the searches. In addition, DMETS conducted three

MICROMEDEX Integrated Index, 2005, MICROMEDEX, Inc., 6200 South Syracuse Way, Suite 300, Englewood, Colorado 80111-4740, which includes all products/databases within ChemKnowledge, DrugKnowledge, and RegsKnowledge Systems.

Facts and Comparisons, online version, Facts and Comparisons, St. Louis, Missouri.

AMF Decision Support System [DSS], the Division of Medication Errors and Technical Support [DMETS] database of Proprietary name consultation requests, New Drug Approvals 98-05, and the electronic online version of the FDA Orange Book.

iv Phonetic and Orthographic Computer Analysis (POCA)

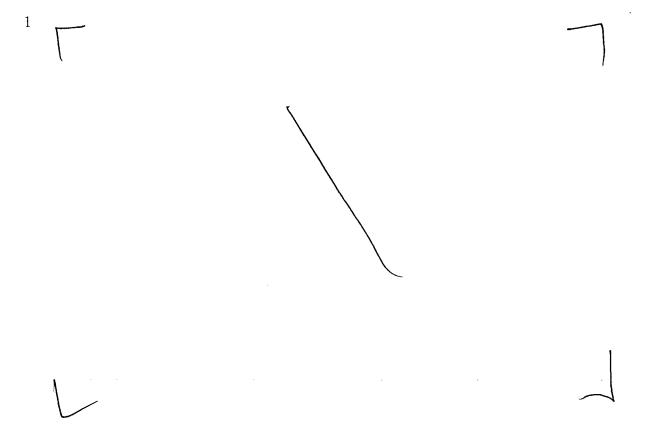
www.location.http://www.uspto.gov/tmdb/index.html.

[🖸] Data provided by Thomson & Thomson's SAEGISTM Online service, available at www.thomson.com

prescription analysis studies consisting of two written prescription studies (inpatient and outpatient) and one verbal prescription study, involving health care practitioners within FDA. This exercise was conducted to simulate the prescription ordering process in order to evaluate potential errors in handwriting and verbal communication of the name.

A. EXPERT PANEL DISCUSSION

An Expert Panel discussion was held by DMETS to gather professional opinions on the safety of the proprietary name, Lucentis. Potential concerns regarding drug marketing and promotion related to the proposed name were also discussed. This group is composed of DMETS Medication Errors Prevention Staff and representation from the Division of Drug Marketing, Advertising, and Communications (DDMAC). The group relies on their clinical and other professional experiences and a number of standard references when making a decision on the acceptability of a proprietary name.



2. The Expert Panel identified two proprietary names which were thought to have the potential for confusion with Lucentis. This products are listed in Table 1 (see page 4), along with the dosage forms available and usual dosage.

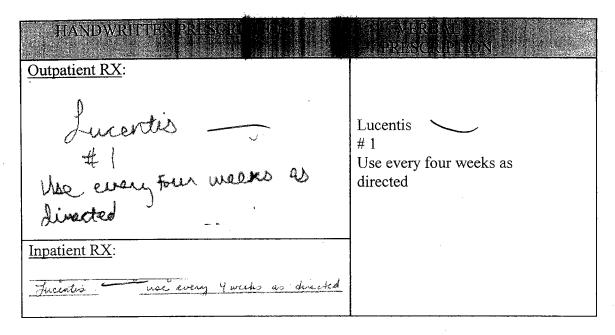
Table 1. Potential Sound-Alike/Look-Alike Lames Identified for Lucentis.

Produci Name	name		Other**
Lucents	Ranibžija 0.5 mg/sodus au ut	in control in the con	
Lantus	Insulin glargine 100 units/mL solution for injection	Individualized dose given subcutaneously.	LA,SA
Lunesta	Eszopiclone 1 mg, 2 mg, 3 mg tablets	1 mg to 3 mg immediately before bedtime.	LA
_ *	l, not all-inclusive. e), SA (sound-alike)		

B. PRESCRIPTION ANALYSIS STUDIES

1. Methodology:

Three separate studies were conducted within the Centers of the FDA for the proposed proprietary name to determine the degree of confusion of Lucentis with other U.S. drug names (proprietary and established) due to similarity in visual appearance with handwritten prescriptions or verbal pronunciation of the drug name. These studies employed a total of 119 health care professionals (pharmacists, physicians, and nurses). This exercise was conducted in an attempt to simulate the prescription ordering process. An inpatient order and outpatient prescriptions were written, each consisting of a combination of marketed and unapproved drug products and a prescription for Lucentis (see page 5). These prescriptions were optically scanned and one prescription was delivered to a random sample of the participating health professionals via e-mail. In addition, the outpatient orders were recorded on voice mail. The voice mail messages were then sent to a random sample of the participating health professionals for their interpretations and review. After receiving either the written or verbal prescription orders, the participants sent their interpretations of the orders via e-mail to the medication error staff.



2. Results:

None of the interpretations of the proposed name overlap, sound similar, or look similar to any currently marketed U.S. product. See Appendix A (page 15) for the complete listing of interpretations from the verbal and written studies.

C. SAFETY EVALUATOR RISK ASSESSMENT

In reviewing the proprietary name Lucentis, the primary concerns relating to look-alike and soundalike confusion with Lucentis are Lantus and Lunesta.

Additionally, DMETS conducted prescription studies to simulate the prescription ordering process. In this case, there was no confirmation that the proposed name could be confused with any of the aforementioned names. However, negative findings are not predicative as to what may occur once the drug is widely prescribed, as these studies have limitations primarily due to a small sample size. The majority of misinterpretations were misspelled/phonetic variations of the proposed name, Lucentis.

Upon further review of the names gathered from EPD, the name Lantus will not be discussed further due to a lack of convincing look-alike and sound-alike similarities with Lucentis in addition to differentiating product characteristics such as the product strength, indication for use, frequency of administration, and route of administration.

Lunesta was identified as a name with similar appearance to Lucentis when scripted. Lunesta is a nonbenzodiazepine hypnotic agent indicated for the treatment of insomnia characterized by difficulty falling asleep, and/or difficulty maintaining sleep during the night and early morning. The usual dose is 1 mg to 3 mg immediately before bedtime. Lunesta is available as 1 mg, 2 mg, and 3 mg tablets.

Both names begin with the same two letters ("Lu") and each name has the upstroke letter "t" as the sixth letter which contributes to the visual similarity of this name pair. However, the middle letters ("cen" vs. "nes") and endings ("is" vs. "a") of each name may help to orthographically differentiate Lucentis from Lunesta on an order (see writing sample below). Lunesta is available in three different strengths and thus, the product strength must either be indicated on a prescription or obtained from the prescriber prior to dispensing which may further differentiate this name pair. The necessity for strength on a prescription written for Lunesta will help to decrease the potential for confusion between this name pair. Furthermore, Lucentis and Lunesta have different dosing regimens (once every month or once every month for 3 consecutive doses followed by a dose administered once every 3 months vs. once daily at bedtime), dosage formulation (solution for injection vs. tablet). prescriber population (ophthalmologist vs. primary-care physician), dose (0.5 mg vs. 1 or 2 tablets). and route of administration (intravitreally vs. orally). The ordered quantity for Lucentis and Lunesta will likely differ as well (e.g., #1 vs. #30). The ordered net quantity, if included on a prescription order, may help to differentiate these products. Furthermore, while an order for Lucentis may be written with the instructions "use as directed", an order for Lunesta will likely be written with a specific dose and frequency of administration (e.g., 1 tab. hs or 2 mg hs) and unlike Lunesta. Lucentis will not be available in retail pharmacies as it is intended to only be administered by a physician. The differing product characteristics described above, including the non-retail distribution of Lucentis, will help to minimize the potential for confusion between the two drug products.

Lucantis

D	INDEPE	JDFNT	`NAME.	4 N A	ALVSIS
IJ.		111111	T 4 % 27 & 27 % 27 % Y	1111	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The sponsor employed	
to conduct an independent analysis of the proposed proprietary name, Lucent	is.
The sponsor submitted an updated report from . ———————————————————————————————————	
Lucentis conducted in April 2005, by the).
Also forwarded to DMETS by the Division of Review Management and Policy are the executive	
summary and addendum to a trademark safety evaluation of Lucentis performed for Genentech by in May 2005.	

a. Similar drug name listing

1.

One hundred physicians were asked to view the proposed proprietary name, Lucentis, and list any existing brand or generic drug names that might be considered similar, based on sound and/or appearance. The following two names were listed as being similar to Lucentis: Lotrel and Lumigan.

Lotrel and Lumigan were not identified by DMETS as having the potential for confusion with Lucentis. DMETS agrees with _______, that neither of these names pose a significant safety risk due to numerous differentiating product characteristics such as product strength, indication for use, frequency of administration, route of administration, dosage formulation, and/or storage condition.

b. Medical term similarity

One hundred physicians were asked to identify any medical term that might be considered similar to the proposed proprietary name, Lucentis, based on sound and/or appearance. No terms were identified.

DMETS Response:

DMETS acknowledges the findings for Lucentis.

c. Exaggerative/inappropriate name identification

One hundred physicians were asked to identify any hyperbole or false claims implied by the proposed name, Lucentis. The following table lists participant responses for this inquiry.

Table 2. Responses from inquiry regarding the name Lucentis as exaggerative/inappropriate.

Number	Response	Percentage	
98	No issues	98%	
1	Implies clarity	1%	
1	Suggests intraocular lens	1%	
100	Total	100%	

DMETS Response:

d. Written and verbal order interpretation

One hundred actively practicing institution-based pharmacists listened to verbal medical orders for Lucentis from physicians and then gave their interpretation of what was heard. Additionally, after being shown handwritten medical orders for Lucentis from physicians, these one hundred pharmacists gave their interpretation of what was viewed. In both of these studies, it is reported that pharmacists did not misinterpret Lucentis for any marketed drug products.

DMETS acknowledges the findings. However, negative study findings are not predictive as to what may occur once Lucentis is widely prescribed, as these studies have limitations primarily due to a small sample size.

e. Computer assisted analysis

A search of medical references was conducted to identify any drug names that might be considered similar to the proposed proprietary name, Lucentis, based on sound and/or appearance. This research identified twelve names which are listed in Table 3 below.

Table 3. Potential look-alike/sound-alike names for Lucentis as identified by search of medical references.

Leucine		
Licetrol		
Licorice		
Lotrel		
Lumigan		
Lunelle		
	Licetrol Licorice Lotrel Lumigan	

DMETS Response:

With the exception of Lantus, DMETS did not identify any of the other names as having look-alike and/or sound-alike similarities with Lucentis. However, following review of these names, DMETS agrees with that none of these names pose a significant safety risk due to numerous differentiating product characteristics such as product strength, indication for use, frequency of administration, route of administration, dosage formulation, and/or storage condition.

f. Full name screening for similar medical terms

A review of the medical terms, acronyms, and abbreviations identified indicates no apparent issues for the communication of proposed proprietary name, Lucentis, in medical settings.

DMETS Response:

DMETS does not consider any of these medical terms, acronyms, or abbreviations as having a risk for confusion with Lucentis.

g. Gap analysis - Internal expert panel discussion (EPD)

The identified the following names, approved March 3, 2003 through April 25, 2005, as being potentially similar to Lucentis: Levitra, Lunesta, Luveris, and Luxacor.

With the exception of Lunesta, which is evaluated in Section II of this review, DMETS did not identify any of the other names as having look-alike and/or sound-alike similarities with Lucentis. However, following review of these names, DMETS concurs with _____ that none of these names pose a significant safety risk due to numerous differentiating product characteristics such as product strength, indication for use, frequency of administration, route of administration, dosage formulation, and/or storage condition.

h. Computerized orthographic phonologic analysis (COPA)

The drug names Lunesta and Luveris showed increased similarity with Lucentis by exceeding the COPA threshold value for combined similarity, while the drug names Plenaxis and Ventavis showed increased similarity with Lucentis by exceeding the COPA threshold value for orthographic similarity only. No drug products showed increased sound-alike similarity with Lucentis by exceeding the COPA threshold value for phonetic measurement.

DMETS Response:

With the exception of Lunesta, which is evaluated in Section II of this review, DMETS did not identify any of the other names as having look-alike and/or sound-alike similarities with Lucentis. However, following review of these names, DMETS concurs with that none of these names pose a significant safety risk due to numerous differentiating product characteristics such as product strength, indication for use, frequency of administration, route of administration, dosage formulation, and/or storage condition.

i. DSI-reference comparative safety analysis

The following products were identified in the Gap Analysis as sharing two or more commonalities with Lucentis: Macugen, Octagam, Tysabri, and Vidaza. None of the COPA thresholds for orthographic, phonetic, or combined similarity were exceeded for any of these four products, indicating diminished potential for confusion with Lucentis in the marketplace.

DMETS Response:

Although these products have some overlapping product characteristics, the names lack convincing orthographic and phonetic similarities. DMETS concurs with ______ that the potential for confusion between these names and Lucentis is limited.

evaluated by staff as having the potential for look-alike confusion when handwritten: Lantus and Lunesta.
DMETS Response:
Lantus and Lunesta were identified by DMETS as having the potential for look-alike confusion with Lucentis. The name Lunesta is evaluated in Section II of this review. Lantus was not reviewed further by DMETS due to a lack of convincing look-alike similarities with Lucentis in addition to differentiating product characteristics.
Table II – Sound-alike names with potential for confusion
did not identify any names that were mentioned by the respondents that I the potential for sound-alike similarities to Lucentis.
DMETS Response:
DMETS acknowledges the findings for Lucentis.
Table III - Medical terms with potential for confusion
did not identify any medical terms with potential for confusion with Lucentis.
DMETS Response:
DMETS acknowledges the findings for Lucentis.
Table IV – Respondents' suitability comments (rating) of proposed trademark
identified the following remarks from the respondents: "sounds evil" a "too close to Aventis"
DMETS Response:
DMETS acknowledges the comments regarding the suitability of the name Lucentis.
Table V – FDA and USAN Regulatory Assessment

DMETS cannot comment on the regulatory assessment provided by ______ The paper quoted was published in June 1996 and is not currently used by DMETS to evaluate tradenames.

f. Addendum to the Trademark Safety Evaluation of Lucentis

Luveris and Lucentis can safely coexist in the marketplace.

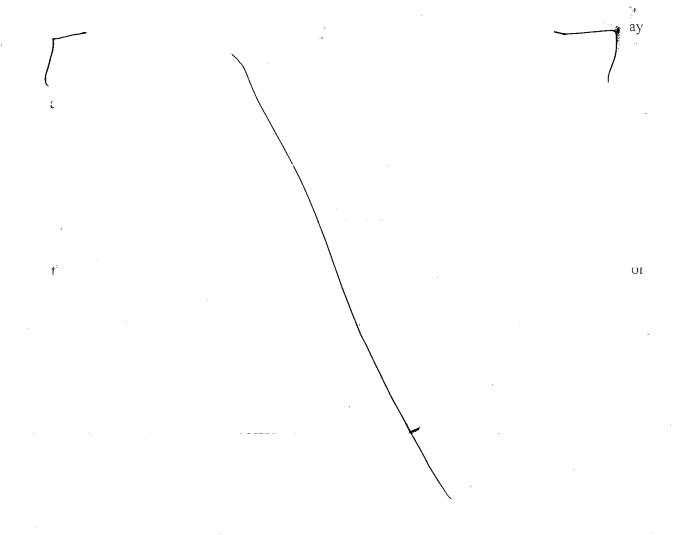
DMETS Response:

DMETS agrees with _____ that Luveris does not pose a significant safety risk.

III. LABELING, PACKAGING, AND SAFETY RELATED ISSUES:

In the review of the container labels, carton and insert labeling of Lucentis, DMETS has attempted to focus on safety issues relating to possible medication errors. DMETS has identified several areas of possible improvement, which might minimize potential user error.

1. GENERAL COMMENTS



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§ 552(b)(5) Deliberative Process

Appendix A. DMETS prescription study results for Lucentis.

Voice	Inpatient	Outpatient
Licenta	Lucentis	lucenta
Lisenta	Lucentis	Lucentis
Lisentis	Lucentis	Lucentis
Lisentis	Lucentis	Lucentis
Lisintus	Lucentis	Lucentis
Lucentis	Lucentis	Lucentis
Lucinta	Lucentis	Lucentis
Lysintus	Lucentis	Lucentis
		Lucentis

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_____ § 552(b)(5) Deliberative Process

Vithheld Track Number: Administrative-

LICENSING ACTION RECOMMENDATION

Applicant: GENENTEN IN	BLA#	125150/0	
Product (established and proprietary names):	·		
Ranibizumah			
Indication / manufacturer's change:		laination	
Indication / manufacturer's change: Neovascular age -	related major (regeneration,	
9			
		,	
☐ Approval Action:	☐ Other Final Ac		
☐ Summary Basis For Approval (SBA) included; of SBA-equivalent reviews included		o File: Memo included application / supplement: Memo include	
		•	
	ARANCE – FDA PRODUCT RELEASE	•	
☐ FDA Lot release not required			
☐ Lot no.(s) in support – not for release			
Lot no.(s) for release			
Director, Product Release Branch			
	RECOMMENDATION BASIS		
☐ Review of Documents (e.g. listed on Licensed Action	on Recommendation Report)		
☐ Inspection of establishment	☐ Inspection repo	ort included	
□ DSI BiMo inspections completed □ DSI BiMo report included			
☐ Review of protocols for lot no.(s)			
☐ Test Results for lot no.(s)			
☐ Review of Environmental Assessment	☐ FONSI included	☐ Categorical Exclusion	
☐ Review of labeling Date completed	□ None needed		
CLE	ARANCE – REGULATORY REVIEW		
☐ Compliance status checked ☐ Acceptable	e ☐ Hold Date: _		
	☐ Cleared from Hold Date: _		
☐ Compliance status check Not Required			
Regulatory Project Manager (RPM)		Date:	
CLI	EARANCE – SCIENTIFIC REVIEW		
Responsible Team Leader:		Date: 6/22/06	
Responsible Division Director	a. Cloure D	ate: 6/26/06	

Form: LARM (CDER - 08/2005)

RMS/BLA - Product Information Sheet for TBP

STN: 125156 O Reg. Coordinator: Lori Gorski					
Document Date: FDA Rcvd Date: CBER Rcvd Date:					
Applicant Generatech					
Product Canibizonab for injection					
Proprietary/Trade Name(s) Lucentis					
Complete a box for each indication					
Indication neovascular (wet) age - related macular degeneration					
Dose 0.5 mg					
Age groups - check all that apply					
Adult \square All \square Child \square Geriatric \square Pediatric \square Young Adult \square Other 18+ 3-12 65+ 0-3 13-18					
Indication Product Use - check all that apply					
☐ Ancillary ☐ Diagnostic/Therapeutic ☐ Therapeutic ☐ Prophylaxis ☐ Other					
☐ Further Manufacturing Injectable ☐ Further Manufacturing Non Injectable					
Indication					
Dose					
Age groups - check all that apply					
□ Adult □ All □ Child □ Geriatric □ Pediatric □ Young Adult □ Other 18+ 3-12 65+ 0-3 13-18					
Indication Product Use - check all that apply					
☐ Ancillary ☐ Diagnostic/Therapeutic ☐ Therapeutic ☐ Prophylaxis ☐ Other					
☐ Further Manufacturing Injectable ☐ Further Manufacturing Non Injectable					
Guidance for completion of this form					
Indication/Usage As stated in the P.I. This should also go into the short summary under the submission screen					
Dose - From the "Dosage and Administration" section of P1 - This is what the patient actually gets.					
Dosage/Physical Form Details - From the "How Supplied" section of P.I Enter final dosage strengths; Potency & Units					

Product Information Sheet - Dosage/Physical Form

Complete one sheet for each physical form, potency, and fill size.

STN: 125156 O Reg. Coordinator: Lovi Golski
Dosage/Physical Forms injectable solution (See back page for Valid Values)
<u>Dosage</u>
Potency (measurement of activity or strength) 10 Units mg/n/ (See back page for Valid Values)
Duration (length of time dosage will remain stable) 18 (months)
Temperature 2-8°C
Container Type
☐ Ampule (Glass) ☐ Ampule (Plastic) ☐ Bag Bulk ☐ Bottle ☐ Pump Spray
☐ Other** ☐ Syringe ☐ Tube 💆 Vial
Container Closure
☐ Heat Seal ☐ Plunger ☐ Screw Cap Closure ☐ Stopper (Dry Natural Rubber)
Stopper (Synthetic) Unknown Other
Container Fill Size (Volume)
Route of Administration intravitien! (See back page for Valid Values)
•
Dosage/Physical Forms(See back page for Valid Values)
Dosage/Physical Forms(See back page for Valid Values) Dosage
<u>Dosage</u>
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values)
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months)
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months) Temperature
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months) Temperature Container Type
Dosage Potency (measurement of activity or strength)
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months) Temperature
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months) Temperature
Dosage Potency (measurement of activity or strength) Units (See back page for Valid Values) Duration (length of time dosage will remain stable) (months) Temperature Container Type Ampule (Glass) Ampule (Plastic) Bag Bulk Bottle Pump Spray Other** Syringe Tube Vial Container Closure Heat Seal □ Plunger □ Screw Cap Closure □ Stopper (Dry Natural Rubber) □ Stopper (Synthetic)

Product Information Sheet - Dosage/Physical Form

Listing of Valid Values

Dosage/Physica	al Forms				
			☐ Nasal Spray Suspension		
			Powder for Reconstitution		
🔀 Injectable Solution			☐ Solution for I	1 Vitro Test	
Injectable Solution	Concentrate		☐ Suspension for	r In Vitro Test	
Injectable Suspension	on		☐ Spray		
Lyophilized Powder	for In Vitro Test		☐ Tablet		
Lyophilized Powder	for Injectable Solut	ion	☐ Powder for Injectable Solution		
Lyophilized Powder	for Injectable Suspe	ension	☐ Powder and S	olvent for Suspension for Injection	
Lyophilized Powder	for Scarification		Repository In	ection	
Lyophilized Powder	to be suspended for	Instillation	Other		
					
			·		
Potency Units					
☐ AU/.5mL	☐ mg/.8 mL	🗖 dil.	🗖 mg/via	I □ ug/.4mL	
☐ AU/mL		□ g	Percen	t ☐ ug/.5mL	
□ BAU/mL	et rerCID	☐ g/tube	☐ u/.5ml	ug/.6mL	
☐ IU/.1 mL	☐ TU/mL	□ mL	u/2mL	🗖 ug/g	
☐ IU/mL	□ U/.75mL	\square mg	☐ u/mL	ug/mL	
☐ IU/vial	☐ cell/mL	☐ mg/0.5 mL	☐ u/tube	ug/vial	
☐ Lf/.5mL	☐ cfu/mL	\square mg/2 mL	☐ u/vial		
☐ MIU/mL	☐ cfu/tab	\square mg/5 mL	🗖 ug		
☐ MIU/vial	Conc.	∭ mg/mL	ug/.3m	L	
Route of Admin	istration				
☐ Dental		Intranasal		☐ Needle Free	
☐ Implantation	☐ Implantation ☐ Intraperitoneal		Haraction Craft		
☐ Inhalation	☐ Intrathecal		☐ Percutaneous		
☐ Intracoronary		☐ Intratracheal		Prick Test	
☐ Intradermal		Scratch Test			
☐ Intralesional ☐ Intravesical					
☐ Intralymphatic		Spinal			
. ,	Spray				
☐ Intramuscular		Other 1077	AVITENT	And the second s	

Product Information Sheet - Components

STN: 12515610 Reg. Coordinator: Lon Gorst.
Name polysosbate 20
Component Type
Formulation Product In Process Ingredient II Kit Component
Ingredient Role (Pick one when Component Type "Formulation" is used)
☐ Active ☐ Additive ☐ Diluent ☐ Preservative
Source Subsource
Name
Component Type
☐ Formulation ☐ Product ☐ In Process Ingredient ☐ Kit Component
Ingredient Role (Pick one when Component Type "Formulation" is used)
☐ Active ☐ Additive ☐ Diluent ☐ Preservative ☐ Stabilizer
Source Subsource
Name
Component Type
☐ Formulation ☐ Product ☐ In Process Ingredient ☐ Kit Component
Ingredient Role (Pick one when Component Type "Formulation" is used)
☐ Active ☐ Additive ☐ Diluent ☐ Preservative ☐ Stabilizer
Source Subsource