CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 022312Orig1s000

ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS

EXCLUSIVITY SUMMARY

NDA # 022312	SUPPL#		HFD # 150
Trade Name N/A			
Generic Name Docetaxel Inject	etion		
Applicant Name Apotex, Inc.			
Approval Date, If Known Janu	nary 11, 2012		
PART I IS AN EXCLUS	SIVITY DETERMINAT	ION NEEDED?	
1. An exclusivity determination supplements. Complete PARTS one or more of the following quantum supplements.	II and III of this Exclusiv	ity Summary only	_
a) Is it a 505(b)(1), 5056	(b)(2) or efficacy supplem	nent? YES ⊠	NO 🗌
If yes, what type? Specify 505(t	o)(1), 505(b)(2), SE1, SE2	2, SE3,SE4, SE5,	SE6, SE7, SE8
505(b)(2)			
labeling related to safety	ew of clinical data other the v? (If it required review of		
data, answer "no.")		YES [□ NO ⊠
not eligible for exclusiv	cause you believe the stud vity, EXPLAIN why it is with any arguments made study.	a bioavailability	study, including your
	aceutically equivalent to tation. Applicant was gran		
	quiring the review of cline change or claim that is s		

Page 1

d) Did the applicant request exclusivity? YES \(\sum \) NO \(\sum \)
If the answer to (d) is "yes," how many years of exclusivity did the applicant request?
e) Has pediatric exclusivity been granted for this Active Moiety?
YES NO
<u>If the answer to the above question in YES.</u> is this approval a result of the studies submitted in response to the Pediatric Written Request?
No
IF YOU HAVE ANSWERED "NO" TO \underline{ALL} OF THE ABOVE QUESTIONS, GO DIRECTLY TO THE SIGNATURE BLOCKS AT THE END OF THIS DOCUMENT.
2. Is this drug product or indication a DESI upgrade? YES □ NO ⊠
IF THE ANSWER TO QUESTION 2 IS "YES," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8 (even if a study was required for the upgrade).
PART II FIVE-YEAR EXCLUSIVITY FOR NEW CHEMICAL ENTITIES (Answer either #1 or #2 as appropriate)
1. Single active ingredient product.
Has FDA previously approved under section 505 of the Act any drug product containing the same active moiety as the drug under consideration? Answer "yes" if the active moiety (including other esterified forms, salts, complexes, chelates or clathrates) has been previously approved, but this particular form of the active moiety, e.g., this particular ester or salt (including salts with hydrogen or coordination bonding) or other non-covalent derivative (such as a complex, chelate, or clathrate) has not been approved. Answer "no" if the compound requires metabolic conversion (other than deesterification of an esterified form of the drug) to produce an already approved active moiety.
YES 🖂 NO 🗌
If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA $\#(s)$.

NDA# 020449 (RLD) Taxotere (docetaxel) Injection

NDA# 201195, 201525, Docetaxel Injection
22234, and 22534
(other (b)(2) apps)

NDA#

2. Combination product.

If the product contains more than one active moiety(as defined in Part II, #1), has FDA previously approved an application under section 505 containing <u>any one</u> of the active moieties in the drug product? If, for example, the combination contains one never-before-approved active moiety and one previously approved active moiety, answer "yes." (An active moiety that is marketed under an OTC monograph, but that was never approved under an NDA, is considered not previously approved.)

approved.)	YES 🗌	NO 🗆
	1123	NO 🗀
If "yes," identify the approved drug product(s) containing the active #(s).	moiety, and, if	f known, the NDA
NDA#		
NDA#		
NDA#		

IF THE ANSWER TO QUESTION 1 OR 2 UNDER PART II IS "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8. (Caution: The questions in part II of the summary should only be answered "NO" for original approvals of new molecular entities.) IF "YES," GO TO PART III.

PART III THREE-YEAR EXCLUSIVITY FOR NDAs AND SUPPLEMENTS

To qualify for three years of exclusivity, an application or supplement must contain "reports of new clinical investigations (other than bioavailability studies) essential to the approval of the application and conducted or sponsored by the applicant." This section should be completed only if the answer to PART II, Question 1 or 2 was "yes."

1. Does the application contain reports of clinical investigations? (The Agency interprets "clinical investigations" to mean investigations conducted on humans other than bioavailability studies.) If the application contains clinical investigations only by virtue of a right of reference to clinical investigations in another application, answer "yes," then skip to question 3(a). If the answer to 3(a)

is "yes" for any investigation referred to in summary for that investigation.	another application,	do not	comple	te remainder of
, c		YES		NO 🖂
IF "NO," GO DIRECTLY TO THE SIGNAT	TURE BLOCKS ON F	PAGE 8	3.	
2. A clinical investigation is "essential to the application or supplement without relying of essential to the approval if 1) no clinical invapplication in light of previously approved as such as bioavailability data, would be suffice 505(b)(2) application because of what is alreathere are published reports of studies (other thother publicly available data that independent the application, without reference to the clinical supplication of the supplication of the supplication of the supplication of the supplication is "essential to the application of supplication is "essential to the application in light of previously approved application in light of previously approved application because of what is already the supplication is "essential to the application in light of previously approved application in light of previously application in light of previously approved application in light of previously ap	on that investigation. restigation is necessary oplications (i.e., information to provide a basis dy known about a previous those conducted or thy would have been so	Thus, y to support to support to see the second to the sec	the inverted the inverted that the proval approve ored by a to sup	estigation is not e supplement or an clinical trials, as an ANDA or ed product), or 2) the applicant) or port approval of
(a) In light of previously approved apply the applicant or available from some necessary to support approval of the apply approved	ome other source, incl	uding t	he publ	
If "no," state the basis for your concluAND GO DIRECTLY TO SIGNATU			t necess	ary for approval
(b) Did the applicant submit a lis effectiveness of this drug product and independently support approval of the	a statement that the pu			-
independently support approval of the	с аррисацоп:	YES		NO 🗌
(1) If the answer to 2(b) is "ye with the applicant's conclusion			-	ason to disagree
		YES		NO 🗌
If yes, explain:				
(2) If the answer to 2(b) is "no.	" are you aware of pub	olished	studies 1	not conducted or
sponsored by the applicant or demonstrate the safety and eff				d independently
		YES		NO 🗌

If yes,	explain:		
(c	If the answers to (b)(1) and (b)(2) investigations submitted in the applicati		-
	omparing two products with the same ingredient the purpose of this section.	ent(s) are considered to be	e bioavailability
interprets agency to not duplic effectiver	ition to being essential, investigations must be "new clinical investigation" to mean an investigation are the effectiveness of a previously appeared the results of another investigation that was ness of a previously approved drug product, i. onsiders to have been demonstrated in an already	gation that 1) has not been oproved drug for any indicated on by the agency to e., does not redemonstrate	relied on by the ation and 2) does demonstrate the
a) For each investigation identified as "essential to the approval," has the investigation been relied on by the agency to demonstrate the effectiveness of a previously approved drug product? (If the investigation was relied on only to support the safety of a previously approved drug, answer "no.")			
In	vestigation #1	YES 🗌	NO 🗌
In	vestigation #2	YES 🗌	NO 🗌
	you have answered "yes" for one or more invested the NDA in which each was relied upon:	tigations, identify each su	ch investigation
dı	For each investigation identified as "essentian uplicate the results of another investigation that fectiveness of a previously approved drug process."	was relied on by the agend	_
In	vestigation #1	YES 🗌	NO 🗌
In	vestigation #2	YES 🗌	NO 🗌

If you have answered "yes" for one or more investigation, identify the NDA in which a similar investigation was relied on: c) If the answers to 3(a) and 3(b) are no, identify each "new" investigation in the application or supplement that is essential to the approval (i.e., the investigations listed in #2(c), less any that are not "new"): 4. To be eligible for exclusivity, a new investigation that is essential to approval must also have been conducted or sponsored by the applicant. An investigation was "conducted or sponsored by" the applicant if, before or during the conduct of the investigation, 1) the applicant was the sponsor of the IND named in the form FDA 1571 filed with the Agency, or 2) the applicant (or its predecessor in interest) provided substantial support for the study. Ordinarily, substantial support will mean providing 50 percent or more of the cost of the study. a) For each investigation identified in response to question 3(c): if the investigation was carried out under an IND, was the applicant identified on the FDA 1571 as the sponsor? Investigation #1 YES \square ! NO IND# ! Explain: Investigation #2 YES \square ! NO \square IND# ! Explain: (b) For each investigation not carried out under an IND or for which the applicant was not identified as the sponsor, did the applicant certify that it or the applicant's predecessor in interest provided substantial support for the study? Investigation #1

YES Explain:	! NO L ! Explain:
Investigation #2 YES Explain:	! ! ! NO □ ! Explain:
the applicant should not lead (Purchased studies may not drug are purchased (not just	swer of "yes" to (a) or (b), are there other reasons to believe that be credited with having "conducted or sponsored" the study? It be used as the basis for exclusivity. However, if all rights to the st studies on the drug), the applicant may be considered to have e studies sponsored or conducted by its predecessor in interest.)
If yes, explain:	YES NO
Name of person completing form: Title: Regulatory Project Manage Date: January 11, 2012	
Name of Office/Division Director Title: Associate Director, OHOP	signing form: Anthony J. Murgo, MD
Form OGD-011347; Revised 05/3	10/2004; formatted 2/15/05

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This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature. /s/ CHRISTY L COTTRELL 01/11/2012 **ANTHONY J MURGO**

01/11/2012



EXCLUSIVITY STATEMENT

According to the information published in the *Approved Drug Products with Therapeutic Equivalence Evaluations* list, 28th Edition, sanofi-aventis, U.S. LLC is entitled to the following marketing exclusivity for Taxotere® (Docetaxel) for Injection 40 mg (base)/mL under the following exclusivity codes:

Exclusivity Code	Exclusivity Expiration
I-436	August 18, 2007
(FOR USE IN COMBINATION WITH DOXORUBICIN AND CYCLOPHOSPHAMIDE FOR THE ADJUVANT TREATMENT OF PATIENTS WITH OPERABLE NODE-POSITIVE BREAST CANCER)	
1-490	March 22, 2009
(FOR USE IN COMBINATION WITH CISPLATIN AND FLUOROURACIL FOR THE TREATMENT OF PATIENTS WITH ADVANCED GASTRIC ADENOCARCINOMA, INCLUDING ADENOCARCINOMA OF GASTROESOPHAGEAL JUNCTION, WHO HAVE NOT RECEIVED PRIOR CHEMOTHERAPY FOR ADVANCED DISEASE)	
I-519	October 17, 2009
(USE OF TAXOTERE (DOCETAXEL) INJECTION CONCENTRATE IN COMBINATION WITH CISPLATIN AND FLUOROURACIL FOR THE INDUCTION OF PATIENTS WITH INOPERABLE LOCALLY ADVANCED SQUAMOUS CELL CARCINOMA OF THE HEAD AND NECK (SCCHN))	
I-542	September 28, 2010
(EXPANSION OF PATIENT POPULATION FOR HEAD AND NECK CANCER FROM "INOPERABLE" PATIENTS TO ALL PATIENTS)	
I-543	September 28, 2010
(USE IN COMBINATION WITH CISPLATIN AND FLUOROURACIL FOR THE INDUCTION TREATMENT OF PATIENTS WITH LOCALLY ADVANCED SQUAMOUS CELL CARCINOMA OF THE HEAD AND NECK (SCCHN))	

Apotex Inc. certifies that the sale of Docetaxel Injection 40 mg/mL (20 mg/0.5 mL and 80 mg/2 mL) will not begin until after the expiry of the exclusivity for I-542 and I-543.

Bernice Tao

Date: Mach 27,2008

Director, Regulatory Affairs US

150 Signet Drive, Toronto, Ontario, Canada M9L 1T9
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PEDIATRIC PAGE

(Complete for all filed original applications and efficacy supplements)

NDA/BLA#: <u>22-312</u>	Supplement Number:	NDA Supplement Type (e.g. SE5):
Division Name: <u>DDOP</u>	PDUFA Goal Date: 1-28-09	Stamp Date: <u>3/28/2008</u>
Proprietary Name: <u>Docetaxel Injecta</u>	ction	
Established/Generic Name: docetax	 kel injection	
Dosage Form: Injection		
Applicant/Sponsor: Apotex, Inc.		
Indication(s) <u>previously approved</u> (ple (1) (2) (3) (4)	ease complete this question for	supplements and Type 6 NDAs only):
Pediatric use for each pediatric subpo application under review. A Pediatric	•	·
Number of indications for this pending (Attach a completed Pediatric Page for	· · · · · · · · · · · · · · · · · · ·	plication.)
Indication: Breast Cancer: Single	agent for locally advanced o	or metastatic breast cancer after
chemotherapy failure; and with do	oxorubicin and cyclophospham	nide as adjuvant treatment of operable
node-positive BC; Non-Small Cell	-	
		splatin for unresectable, locally
advanced or metastatic untreated		<u> </u>
prednisone in androgen independen		reated, advanced GC, including the
gastroesophageal junction; Squamo		-
cisplatin and fluorouracil for in		-
Q1: Is this application in response to		
терительный пределения подражения подражения подражения подражения подражения подражения подражения подражения	<u> </u>	Please proceed to Question 2.
If Yes, NDA/BLA#	Supplement #:	•
· · · · · · · · · · · · · · · · · · ·	his is a complete response to th	
Yes. Please proceed		io i mic.
<u> </u>		the Pediatric Page, as applicable.
·	·	
question):		ories that apply and proceed to the next
(a) NEW ☐ active ingredient(s) (included)regimen; or ☐ route of administration	,·	cation(s); dosage form; dosing
(b) 🔀 No. PREA does not apply. Ski	p to signature block.	
* Note for CDER: SE5, SE6, and SE	7 submissions may also trige	ger PREA.
Q3: Does this indication have orphan	designation?	
☐ Yes. PREA does not apply	y. Skip to signature block.	
☐ No. Please proceed to the	e next question.	

Q4: Is there a full waiver for all pediatric age groups for this indication (check one)?
☐ Yes: (Complete Section A.)
☐ No: Please check all that apply:
☐ Partial Waiver for selected pediatric subpopulations (Complete Sections B)
☐ Deferred for some or all pediatric subpopulations (Complete Sections C)
☐ Completed for some or all pediatric subpopulations (Complete Sections D)
☐ Appropriately Labeled for some or all pediatric subpopulations (Complete Sections E)
☐ Extrapolation in One or More Pediatric Age Groups (Complete Section F)
(Please note that Section F may be used alone or in addition to Sections C, D, and/or E.)
Section A: Fully Waived Studies (for all pediatric age groups)
Reason(s) for full waiver: (check, and attach a brief justification for the reason(s) selected)
☐ Necessary studies would be impossible or highly impracticable because:
☐ Disease/condition does not exist in children
☐ Too few children with disease/condition to study
Other (e.g., patients geographically dispersed):
Product does not represent a meaningful therapeutic benefit over existing therapies for pediatric patients AND is not likely to be used in a substantial number of pediatric patients.
 Evidence strongly suggests that product would be unsafe in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)
Evidence strongly suggests that product would be ineffective in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)
 Evidence strongly suggests that product would be ineffective and unsafe in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)
☐ Justification attached.
If studies are fully waived, then pediatric information is complete for this indication. If there is another indication, please complete another Pediatric Page for each indication. Otherwise, this Pediatric Page is complete and should be signed.

Section B: Partially Waived Studies (for selected pediatric subpopulations)
Check subpopulation(s) and reason for which studies are being partially waived (fill in applicable criteria below):
Note: If Neonate includes premature infants, list minimum and maximum age in "gestational age" (in weeks).

				Reason (see below for further detail):):
		minimum	maximum	Not feasible [#]	Not meaningful therapeutic benefit*	Ineffective or unsafe [†]	Formulation failed ^Δ
	Neonate	wk mo.	wk mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
Are t Reas justi	Are the indicated age ranges (above) based on weight (kg)?						ttach a brief
# N	lot feasible						
Ĺ		Disease/conditio	d be impossible in does not exist with disease/co ents geographica	in children ondition to st			
* 1	lot meaning	gful therapeutic	benefit:				
	patients	in this/these pe		ation(s) AND	c benefit over existin D is not likely to be u on(s).		
† Ine	effective or	unsafe:					
	studies a	are partially wai e strongly sugge	ved on this grouests that product	<i>nd, this infor</i> t would be ir	nsafe in all pediatric rmation must be inclune neffective in all pedia rmation must be inclu	uded in the labelin tric subpopulation	ng.) ns (Note: if
	Evidenc	e strongly sugge	ests that product	t would be in	neffective and unsafe this information mus	in all pediatric su	ubpopulations
Δ F	ormulation	failed:					
	this/thes the pedi ground i submiss	se pediatric subpatric subpatric subpopular submust submit doc sion will be poste	oopulation(s) havion(s) requiring	ve failed. (No that formula ailing why a _l	s to produce a pediat ote: A partial waiver tion. An applicant se pediatric formulation er is granted.)	on this ground ma eking a partial wa	ay <u>only</u> cover niver on this
☐ J	ustification	attached.					

For those pediatric subpopulations for which studies have not been waived, there must be (1) corresponding study plans that have been deferred (if so, proceed to Sections C and complete the PeRC Pediatric Plan Template); (2) submitted studies that have been completed (if so, proceed to Section D and complete the PeRC Pediatric Assessment form); (3) additional studies in other age groups that are not needed because the drug is appropriately labeled in one or more pediatric subpopulations (if so, proceed to Section E); and/or (4)

additional studies in other age groups that are not needed because efficacy is being extrapolated (if so, proceed to Section F). Note that more than one of these options may apply for this indication to cover <u>all</u> of the pediatric subpopulations.

Section C: Deferred Studies (for selected pediatric subpopulations).
--

Check pediatric subpopulation(s) for which pediatric studies are being deferred (and fill in applicable reason below):

Deferrals (for each or all age groups):				Applicant Certification			
Population minimum maximum		Ready for Approva I in Adults	Need Additional Adult Safety or Efficacy Data	Other Appropriate Reason (specify below)*	Received		
	Neonate	wk mo.	wk mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	All Pediatric Populations	0 yr. 0 mo.	16 yr. 11 mo.				
Date studies are due (mm/dd/yy):							
Are	the indicated a	ge ranges (abov	e) based on we	ight (kg)?	☐ No; ☐ Ye	es.	
Are	the indicated a	ge ranges (abov	e) based on Ta	nner Stage	? No; Ye	es.	
* Oth	ner Reason:						

† Note: Studies may only be deferred if an <u>applicant submits a certification of grounds</u> for deferring the studies, a description of the planned or ongoing studies, evidence that the studies are being conducted or will be conducted with due diligence and at the earliest possible time, and a timeline for the completion of the studies. If studies are deferred, on an annual basis applicant must submit information detailing the progress made in conducting the studies or, if no progress has been made, evidence and documentation that such studies will be conducted with due diligence and at the earliest possible time. This requirement should be communicated to the applicant in an appropriate manner (e.g., in an approval letter that specifies a required study as a post-marketing commitment.)

If all of the pediatric subpopulations have been covered through partial waivers and deferrals, Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable.

Pedia	atric subpopulation(s) in which	studies have be	en completed (che	eck below):	1	
Population		minimum	maximum	,	atric Assessment form attached?.	
	Neonate	wk mo.	wk mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	All Pediatric Subpopulations	0 yr. 0 mo.	16 yr. 11 mo.	Yes 🗌	No 🗌	
Are the indicated age ranges (above) based on Tanner Stage? No; Yes. Note: If there are no further pediatric subpopulations to cover based on partial waivers, deferrals and/or completed studies, Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable. Section E: Drug Appropriately Labeled (for some or all pediatric subpopulations):						
	ional pediatric studies are not opriately labeled for the indicat			c subpopulation	(s) because product is	
Popu	lation		minimum		maximum	
	Neonate	wk.	wk mo.		wk mo.	
	Other	yr	yr mo.		yr mo.	
	Other	yr	yr mo.		yr mo.	
	Other	yr	yr mo.		yr mo.	
	Other	yr mo yr mo.				
	All Pediatric Subpopulation	ons 0 yr. 0 mo. 16 yr. 11 mo.				
Are the indicated age ranges (above) based on weight (kg)? No; Yes. Are the indicated age ranges (above) based on Tanner Stage? No; Yes. If all pediatric subpopulations have been covered based on partial waivers, deferrals, completed studies, and/or existing appropriate labeling, this Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable.						

Section F: Extrapolation from Other Adult and/or Pediatric Studies (for deferred and/or completed studies)

Note: Pediatric efficacy can be extrapolated from adequate and well-controlled studies in adults and/or other pediatric subpopulations if (and only if) (1) the course of the disease/condition <u>AND</u> (2) the effects of the product are sufficiently similar between the reference population and the pediatric subpopulation for which information will be extrapolated. Extrapolation of efficacy from studies in adults and/or other children usually requires supplementation with other information obtained from the target pediatric subpopulation, such as

pharmacokinetic and safety studies. Under the statute, safety cannot be extrapolated.

Pediatric studies are not necessary in the following pediatric subpopulation(s) because efficacy can be extrapolated from adequate and well-controlled studies in adults and/or other pediatric subpopulations:						
				Extrapolated from:		
	Population	minimum	maximum	Adult Studies?	Other Pediatric Studies?	
	Neonate	wk mo.	wk mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
All Pediatric Subpopulations 0 yr. 0 mo. 16 yr. 11 mo.						
Are	he indicated age ranges (ab	ove) based on we	ight (kg)?	☐ No; ☐ Yes.		
Are t	he indicated age ranges (ab	ove) based on Ta	nner Stage? [☐ No; ☐ Yes.		
Note: If extrapolating data from either adult or pediatric studies, a description of the scientific data supporting the extrapolation must be included in any pertinent reviews for the application.						
If there are additional indications, please complete the attachment for each one of those indications. Otherwise, this Pediatric Page is complete and should be signed and entered into DFS or DARRTS as appropriate after clearance by PeRC.						
This page was completed by:						
{See appended electronic signature page}						
Regulatory Project Manager						
(Revised: 6/2008)						
NOTE: If you have no other indications for this application, you may delete the attachments from this						

NOTE: If you have no other indications for this application, you may delete the attachments from this document.

Attachment A

(This attachment is to be completed for those applications with multiple indications only.)

Indication #2:						
Q1: Does this indication have orphan designation?						
Yes. PREA does not apply. Skip to signature block.						
☐ No. Please proceed to the next question.						
Q2: Is there a full waiver for all pediatric age groups for this indication (check one)?						
☐ Yes: (Complete Section A.)						
☐ No: Please check all that apply:						
☐ Partial Waiver for selected pediatric subpopulations (Complete Sections B)						
☐ Deferred for some or all pediatric subpopulations (Complete Sections C)						
Completed for some or all pediatric subpopulations (Complete Sections D)						
☐ Appropriately Labeled for some or all pediatric subpopulations (Complete Sections E)						
☐ Extrapolation in One or More Pediatric Age Groups (Complete Section F)						
(Please note that Section F may be used alone or in addition to Sections C, D, and/or E.)						
Section A: Fully Waived Studies (for all pediatric age groups)						
Reason(s) for full waiver: (check, and attach a brief justification for the reason(s) selected)						
☐ Necessary studies would be impossible or highly impracticable because:						
☐ Disease/condition does not exist in children						
☐ Too few children with disease/condition to study						
Other (e.g., patients geographically dispersed):						
Product does not represent a meaningful therapeutic benefit over existing therapies for pediatric patients AND is not likely to be used in a substantial number of pediatric patients.						
Evidence strongly suggests that product would be unsafe in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)						
Evidence strongly suggests that product would be ineffective in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)						
Evidence strongly suggests that product would be ineffective and unsafe in all pediatric subpopulations (Note: if studies are fully waived on this ground, this information must be included in the labeling.)						
☐ Justification attached.						
If studies are fully waived, then pediatric information is complete for this indication. If there is another indication, please complete another Pediatric Page for each indication. Otherwise, this Pediatric Page is complete and should be signed.						

NDA/BLA# 22-31222-31222-31222-312 **Section B:** Partially Waived Studies (for selected pediatric subpopulations) Check subpopulation(s) and reason for which studies are being partially waived (fill in applicable criteria below): Note: If Neonate includes premature infants, list minimum and maximum age in "gestational age" (in weeks). Reason (see below for further detail): Not meaningful Ineffective or Formulation Not therapeutic minimum maximum feasible# unsafe[†] failed[∆] benefit* wk. ___ wk. Neonate mo. mo. Other _ yr. ___ mo. _ yr. ___ mo. Other yr. ___ mo. _ yr. _ mo. Other yr. yr. mo. mo. Other yr. _ mo. yr. mo. Are the indicated age ranges (above) based on weight (kg)? ☐ No; ☐ Yes. Are the indicated age ranges (above) based on Tanner Stage? ☐ No: ☐ Yes. Reason(s) for partial waiver (check reason corresponding to the category checked above, and attach a brief justification): Not feasible: Necessary studies would be impossible or highly impracticable because: Disease/condition does not exist in children Too few children with disease/condition to study Other (e.g., patients geographically dispersed): _____ Not meaningful therapeutic benefit: Product does not represent a meaningful therapeutic benefit over existing therapies for pediatric patients in this/these pediatric subpopulation(s) AND is not likely to be used in a substantial number of pediatric patients in this/these pediatric subpopulation(s). † Ineffective or unsafe: Evidence strongly suggests that product would be unsafe in all pediatric subpopulations (*Note: if* studies are partially waived on this ground, this information must be included in the labeling.) Evidence strongly suggests that product would be ineffective in all pediatric subpopulations (*Note: if* studies are partially waived on this ground, this information must be included in the labeling.) Evidence strongly suggests that product would be ineffective and unsafe in all pediatric subpopulations (Note: if studies are partially waived on this ground, this information must be included in the labeling.) Formulation failed: Applicant can demonstrate that reasonable attempts to produce a pediatric formulation necessary for this/these pediatric subpopulation(s) have failed. (Note: A partial waiver on this ground may only cover the pediatric subpopulation(s) requiring that formulation. An applicant seeking a partial waiver on this

Justification attached.

For those pediatric subpopulations for which studies have not been waived, there must be (1) corresponding study plans that have been deferred (if so, proceed to Section C and complete the PeRC Pediatric Plan Template); (2) submitted studies that have been completed (if so, proceed to Section D and complete the PeRC Pediatric Assessment form); (3) additional studies in other age groups that are not needed because the

submission will be posted on FDA's website if waiver is granted.)

ground must submit documentation detailing why a pediatric formulation cannot be developed. This

drug is appropriately labeled in one or more pediatric subpopulations (if so, proceed to Section E); and/or (4) additional studies in other age groups that are not needed because efficacy is being extrapolated (if so, proceed to Section F). Note that more than one of these options may apply for this indication to cover <u>all</u> of the pediatric subpopulations.

	O. 11 /6		1 1 41 1
Section C: Deferred	Studies (for son	ne or all pediatric	: subpopulations).

Check pediatric subpopulation(s) for which pediatric studies are being deferred (and fill in applicable reason below):

Deferrals (for each or all age groups):				Applicant Certification			
Population minimum maximum		Ready for Approva I in Adults	Need Additional Adult Safety or Efficacy Data	Other Appropriate Reason (specify below)*	Received		
	Neonate	wk mo.	wk mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	Other	yr mo.	yr mo.				
	All Pediatric Populations	0 yr. 0 mo.	16 yr. 11 mo.				
Date studies are due (mm/dd/yy):							
Are t	Are the indicated age ranges (above) based on weight (kg)? No; Yes. Are the indicated age ranges (above) based on Tanner Stage? No; Yes. * Other Reason:						

† Note: Studies may only be deferred if an <u>applicant submits a certification of grounds</u> for deferring the studies, a description of the planned or ongoing studies, evidence that the studies are being conducted or will be conducted with due diligence and at the earliest possible time, and a timeline for the completion of the studies. If studies are deferred, on an annual basis applicant must submit information detailing the progress made in conducting the studies or, if no progress has been made, evidence and documentation that such studies will be conducted with due diligence and at the earliest possible time. This requirement should be communicated to the applicant in an appropriate manner (e.g., in an approval letter that specifies a required study as a post-marketing commitment.)

If all of the pediatric subpopulations have been covered through partial waivers and deferrals, Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable.

Continu D. Completed	Ctudios /for o	المسالمية ممسم	-4 mia a
Section D: Completed	Studies (IOI S	ome or all bed	aine suppobulations).

Pediatric subpopulation(s) in which studies have been completed (check below):						
Population minir		minimum	maximum	PeRC Pedi	RC Pediatric Assessment form attached?	
	☐ Neonatew		wk mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	Other	yr mo.	yr mo.	Yes 🗌	No 🗌	
	All Pediatric Subpopulations	0 yr. 0 mo.	16 yr. 11 mo.	Yes 🗌	No 🗌	
Are to	Are the indicated age ranges (above) based on weight (kg)? No; Yes. Are the indicated age ranges (above) based on Tanner Stage? No; Yes. Note: If there are no further pediatric subpopulations to cover based on partial waivers, deferrals and/or completed studies, Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable.					
Sect	ion E: Drug Appropriately Lab	eled (for some o	r all pediatric subp	opulations):		
	tional pediatric studies are not opriately labeled for the indicated	•	• • • • • • • • • • • • • • • • • • • •	c subpopulation	(s) because product is	
Popi	ulation		minimum		maximum	
] Neonate	wk.	wk mo.		wk mo.	
] Other	yr	yr mo.		yr mo.	
] Other	yr	yr mo.		yr mo.	
	☐ Other		yr mo.		yr mo.	
] Other	yr	yr mo.		mo.	
	All Pediatric Subpopulati	ons	0 yr. 0 mo.		16 yr. 11 mo.	
Are the indicated age ranges (above) based on weight (kg)? No; Yes. Are the indicated age ranges (above) based on Tanner Stage? No; Yes. If all pediatric subpopulations have been covered based on partial waivers, deferrals, completed studies, and/or existing appropriate labeling, this Pediatric Page is complete and should be signed. If not, complete the rest of the Pediatric Page as applicable.						

Section F: Extrapolation from Other Adult and/or Pediatric Studies (for deferred and/or completed studies)

Note: Pediatric efficacy can be extrapolated from adequate and well-controlled studies in adults and/or other pediatric subpopulations if (and only if) (1) the course of the disease/condition <u>AND</u> (2) the effects of the product are sufficiently similar between the reference population and the pediatric subpopulation for which information will be extrapolated. Extrapolation of efficacy from studies in adults and/or other children usually requires supplementation with other information obtained from the target pediatric subpopulation, such as pharmacokinetic and safety studies. Under the statute, safety cannot be extrapolated.

priai	macokinetic and safety studi	es. Under the sta	itute, salety cariff	от ве ехпарогатей.		
Pediatric studies are not necessary in the following pediatric subpopulation(s) because efficacy can be extrapolated from adequate and well-controlled studies in adults and/or other pediatric subpopulations:						
				Extrapolated from:		
	Population	minimum	maximum	Adult Studies?	Other Pediatric Studies?	
	Neonate	wk mo.	wk mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
	Other	yr mo.	yr mo.			
	All Pediatric Subpopulations	0 yr. 0 mo.	16 yr. 11 mo.			
Are the indicated age ranges (above) based on weight (kg)? No; No; Yes. Are the indicated age ranges (above) based on Tanner Stage? No; Yes. Note: If extrapolating data from either adult or pediatric studies, a description of the scientific data supporting the extrapolation must be included in any pertinent reviews for the application.						
If there are additional indications, please copy the fields above and complete pediatric information as directed. If there are no other indications, this Pediatric Page is complete and should be entered into DFS or DARRTS as appropriate after clearance by PeRC.						
This	page was completed by:					
{See	appended electronic signati	ure page}				
Regulatory Project Manager						
FOR QUESTIONS ON COMPLETING THIS FORM CONTACT THE PEDIATRIC AND MATERNAL HEALTH STAFF at 301-796-0700						
(Rev	(Revised: 6/2008)					

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

/s/

Christy Cottrell 12/2/2008 02:38:57 PM This is a 505(b)(2) application- no new active ingredient, no new indication, population, dosage form, etc. PREA not triggered.

ACTION PACKAGE CHECKLIST

APPLICATION INFORMATION ¹					
NDA # 022312 BLA #	NDA Supplement # BLA STN #		If NDA, Efficacy Supplement Type:		
_		b) (4)	Applicant: Apotex, Inc. Agent for Applicant (if applicable):		
RPM: Christy Cottrell			Division: DOP1/HFD-150		
NDAs: NDA Application Type Efficacy Supplement:	:) NDA supplements: (include NDA #(s) and drug	
(A supplement can be e	ither a (b)(1) or a (b)(2)	NDA 020	449 Taxotere		
regardless of whether the or a (b)(2). Consult page	ne original NDA was a (b)(1) e 1 of the 505(b)(2)	Provide a drug.	brief explanation of how this	product is different from the listed	
Assessment or the Appe Checklist.)	endix to this Action Package	Different	qualitative and quantitative fo	ormulation	
		If no listed drug, explain. This application relies on literature. This application relies on a final OTC monograph. Other (explain)			
		Two months prior to each action, review the information in the 505(b)(2) Assessment and submit the draft to CDER OND IO for clearance. Finalize the 505(b)(2) Assessment at the time of the approval action.			
		On the day of approval, check the Orange Book again for any new patents or pediatric exclusivity.			
		No changes ☐ Updated Date of check: 1-11-12			
		If pediatric exclusivity has been granted or the pediatric information in the labeling of the listed drug changed, determine whether pediatric information needs to be added to or deleted from the labeling of this drug.			
❖ Actions					
• Proposed	action Goal Date is <u>January 12, 2012</u>			☑ AP ☐ TA ☐CR	
Previous a	actions (specify type and date for	r each action taken) letters issued on 5/4/11, 9/22/10		None Complete Response letters issued on 5/4/11, 9/22/10, 1/29/10, 4/28/09	

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¹ The **Application Information** section is (only) a checklist. The **Contents of Action Package** section (beginning on page 5) lists the documents to be included in the Action Package.

*	If accelerated approval or approval based on efficacy studies in animals, were promotional materials received? Note: Promotional materials to be used within 120 days after approval must have been submitted (for exceptions, see http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/ucm069965.pdf). If not submitted, explain	☐ Received				
*	Application Characteristics ²					
	Review priority: Standard Priority Chemical classification (new NDAs only): Fast Track					
*	BLAs only: Ensure RMS-BLA Product Information Sheet for TBP and RMS-BLA Facility Information Sheet for TBP have been completed and forwarded to OPI/OBI/DRM (Vicky Carter)	Yes, dates				
*	BLAs only: Is the product subject to official FDA lot release per 21 CFR 610.2 (approvals only)	☐ Yes ☐ No				
*	Public communications (approvals only)					
	Office of Executive Programs (OEP) liaison has been notified of action	☐ Yes ☒ No				
	Press Office notified of action (by OEP)	☐ Yes ⊠ No				
	Indicate what types (if any) of information dissemination are anticipated	None ☐ HHS Press Release ☐ FDA Talk Paper ☐ CDER Q&As ☐ Other				

² Answer all questions in all sections in relation to the pending application, i.e., if the pending application is an NDA or BLA supplement, then the questions should be answered in relation to that supplement, not in relation to the original NDA or BLA. For example, if the application is a pending BLA supplement, then a new *RMS-BLA Product Information Sheet for TBP* must be completed.

*	Exclusivity	
	Is approval of this application blocked by any type of exclusivity?	⊠ No ☐ Yes
	 NDAs and BLAs: Is there existing orphan drug exclusivity for the "same" drug or biologic for the proposed indication(s)? Refer to 21 CFR 316.3(b)(13) for the definition of "same drug" for an orphan drug (i.e., active moiety). This definition is NOT the same as that used for NDA chemical classification. 	No ☐ Yes If, yes, NDA/BLA # and date exclusivity expires:
	 (b)(2) NDAs only: Is there remaining 5-year exclusivity that would bar effective approval of a 505(b)(2) application)? (Note that, even if exclusivity remains, the application may be tentatively approved if it is otherwise ready for approval.) 	No ☐ Yes If yes, NDA # and date exclusivity expires:
	 (b)(2) NDAs only: Is there remaining 3-year exclusivity that would bar effective approval of a 505(b)(2) application? (Note that, even if exclusivity remains, the application may be tentatively approved if it is otherwise ready for approval.) 	☑ No ☐ Yes If yes, NDA # and date exclusivity expires:
	 (b)(2) NDAs only: Is there remaining 6-month pediatric exclusivity that would bar effective approval of a 505(b)(2) application? (Note that, even if exclusivity remains, the application may be tentatively approved if it is otherwise ready for approval.) 	☑ No ☐ Yes If yes, NDA # and date exclusivity expires:
	 NDAs only: Is this a single enantiomer that falls under the 10-year approval limitation of 505(u)? (Note that, even if the 10-year approval limitation period has not expired, the application may be tentatively approved if it is otherwise ready for approval.) 	No ☐ Yes If yes, NDA # and date 10- year limitation expires:
*	Patent Information (NDAs only)	
	 Patent Information: Verify that form FDA-3542a was submitted for patents that claim the drug for which approval is sought. If the drug is an old antibiotic, skip the Patent Certification questions. 	☐ Verified ☐ Not applicable because drug is an old antibiotic.
	 Patent Certification [505(b)(2) applications]: Verify that a certification was submitted for each patent for the listed drug(s) in the Orange Book and identify the type of certification submitted for each patent. 	21 CFR 314.50(i)(1)(i)(A) ☑ Verified 21 CFR 314.50(i)(1) ☐ (ii) ☐ (iii)
	• [505(b)(2) applications] If the application includes a paragraph III certification,	
	it cannot be approved until the date that the patent to which the certification pertains expires (but may be tentatively approved if it is otherwise ready for approval).	No paragraph III certification Date patent will expire

•	[505(b)(2) applications] For each paragraph IV certification, based on the questions below, determine whether a 30-month stay of approval is in effect due to patent infringement litigation.		
	Answer the following questions for each paragraph IV certification:		
	(1) Have 45 days passed since the patent owner's receipt of the applicant's notice of certification?	⊠ Yes	☐ No
	(Note: The date that the patent owner received the applicant's notice of certification can be determined by checking the application. The applicant is required to amend its 505(b)(2) application to include documentation of this date (e.g., copy of return receipt or letter from recipient acknowledging its receipt of the notice) (see 21 CFR 314.52(e))).		
	If "Yes," skip to question (4) below. If "No," continue with question (2).		
	(2) Has the patent owner (or NDA holder, if it is an exclusive patent licensee) submitted a written waiver of its right to file a legal action for patent infringement after receiving the applicant's notice of certification, as provided for by 21 CFR 314.107(f)(3)?	Yes	⊠ No
	If "Yes," there is no stay of approval based on this certification. Analyze the next paragraph IV certification in the application, if any. If there are no other paragraph IV certifications, skip the rest of the patent questions.		
	If "No," continue with question (3).		
	(3) Has the patent owner, its representative, or the exclusive patent licensee filed a lawsuit for patent infringement against the applicant?	⊠ Yes	☐ No
	(Note: This can be determined by confirming whether the Division has received a written notice from the (b)(2) applicant (or the patent owner or its representative) stating that a legal action was filed within 45 days of receipt of its notice of certification. The applicant is required to notify the Division in writing whenever an action has been filed within this 45-day period (see 21 CFR 314.107(f)(2))).		
	If "No," the patent owner (or NDA holder, if it is an exclusive patent licensee) has until the expiration of the 45-day period described in question (1) to waive its right to bring a patent infringement action or to bring such an action. After the 45-day period expires, continue with question (4) below.		
	(4) Did the patent owner (or NDA holder, if it is an exclusive patent licensee) submit a written waiver of its right to file a legal action for patent infringement within the 45-day period described in question (1), as provided for by 21 CFR 314.107(f)(3)?	Yes	⊠ No
	If "Yes," there is no stay of approval based on this certification. Analyze the next paragraph IV certification in the application, if any. If there are no other paragraph IV certifications, skip to the next section below (Summary Reviews).		
	If "No," continue with question (5).		

	(5) Did the patent owner, its representative, or the exclusive patent licensee bring suit against the (b)(2) applicant for patent infringement within 45 days of the patent owner's receipt of the applicant's notice of certification?	⊠ Yes □ No	
	(Note: This can be determined by confirming whether the Division has received a written notice from the (b)(2) applicant (or the patent owner or its representative) stating that a legal action was filed within 45 days of receipt of its notice of certification. The applicant is required to notify the Division in writing whenever an action has been filed within this 45-day period (see 21 CFR 314.107(f)(2)). If no written notice appears in the NDA file, confirm with the applicant whether a lawsuit was commenced within the 45-day period).		
	If "No," there is no stay of approval based on this certification. Analyze the next paragraph IV certification in the application, if any. If there are no other paragraph IV certifications, skip to the next section below (Summary Reviews).		
	If " Yes ," a stay of approval may be in effect. To determine if a 30-month stay is in effect, consult with the OND ADRA and attach a summary of the response.		
	CONTENTS OF ACTION PACKAGE		
*	Copy of this Action Package Checklist ³	Included	
	Officer/Employee List		
*	List of officers/employees who participated in the decision to approve this application and consented to be identified on this list (approvals only)	☑ Included	
	Documentation of consent/non-consent by officers/employees		
	Action Letters		
*	Copies of all action letters (including approval letter with final labeling)	Action(s) and date(s) Approval: 1/11/12 Complete Response: 5/4/11, 9/22/10, 1/29/10, 4/28/09	
	Labeling		
*	Package Insert (write submission/communication date at upper right of first page of PI)		
	 Most recent draft labeling. If it is division-proposed labeling, it should be in track-changes format. 	Included	
	Original applicant-proposed labeling	Included	
	Example of class labeling, if applicable	Included	

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³ Fill in blanks with dates of reviews, letters, etc.

*	Medication Guide/Patient Package Insert/Instructions for Use/Device Labeling (write submission/communication date at upper right of first page of each piece)	
	 Most-recent draft labeling. If it is division-proposed labeling, it should be in track-changes format. 	Included
	Original applicant-proposed labeling	Included
	Example of class labeling, if applicable	Included
*	Labels (full color carton and immediate-container labels) (write submission/communication date on upper right of first page of each submission)	
	Most-recent draft labeling	Included
*	Proprietary Name Acceptability/non-acceptability letter(s) (indicate date(s)) Review(s) (indicate date(s)) Ensure that both the proprietary name(s), if any, and the generic name(s) are listed in the Application Product Names section of DARRTS, and that the proprietary/trade name is checked as the 'preferred' name.	N/A
*	Labeling reviews (indicate dates of reviews and meetings)	☐ RPM ☐ DMEPA 12/21/11, 4/6/11, 1/26/10, 2/27/09 ☐ DRISK ☐ DDMAC 4/15/09 ☐ SEALD ☐ CSS ☐ Other reviews
	Administrative / Regulatory Documents	
*	Administrative Reviews (e.g., RPM Filing Review ⁴ /Memo of Filing Meeting) (indicate date of each review)	4/21/09
* *	All NDA (b)(2) Actions: Date each action cleared by (b)(2) Clearance Cmte NDA (b)(2) Approvals Only: 505(b)(2) Assessment (indicate date)	Not a (b)(2) 12/5/11 Not a (b)(2) 1/11/12
*	NDAs only: Exclusivity Summary (signed by Division Director)	
*	Application Integrity Policy (AIP) Status and Related Documents http://www.fda.gov/ICECI/EnforcementActions/ApplicationIntegrityPolicy/default.htm	
	Applicant is on the AIP	☐ Yes ☒ No
	This application is on the AIP	☐ Yes ☒ No
	o If yes, Center Director's Exception for Review memo (indicate date)	
	 If yes, OC clearance for approval (indicate date of clearance communication) 	☐ Not an AP action
*	Pediatrics (approvals only) Date reviewed by PeRC N/A If PeRC review not necessary, explain: 505(b)(2) - PERC not needed Pediatric Page/Record (approvals only, must be reviewed by PERC before finalized)	

⁴ Filing reviews for scientific disciplines should be filed behind the respective discipline tab.

*	Debarment certification (original applications only): verified that qualifying language was not used in certification and that certifications from foreign applicants are cosigned by U.S. agent (include certification)	▼ Verified, statement is acceptable	
*	Outgoing communications (letters (except action letters), emails, faxes, telecons)	Included	
*	Internal memoranda, telecons, etc.	Included	
*	Minutes of Meetings		
	Regulatory Briefing (indicate date of mtg)	☑ No mtg	
	If not the first review cycle, any end-of-review meeting (indicate date of mtg)	☑ N/A or no mtg	
	Pre-NDA/BLA meeting (indicate date of mtg)	☑ No mtg	
	EOP2 meeting (indicate date of mtg)	☑ No mtg	
	Other milestone meetings (e.g., EOP2a, CMC pilots) (indicate dates of mtgs)	N/A	
*	Advisory Committee Meeting(s)	☑ No AC meeting	
	Date(s) of Meeting(s)		
	48-hour alert or minutes, if available (do not include transcript)		
	Decisional and Summary Memos		
*	Office Director Decisional Memo (indicate date for each review)	⊠ None	
	Division Director Summary Review (indicate date for each review)	None 12/15/11, 4/29/11, 9/22/10, 1/29/10, 4/28/09	
	Cross-Discipline Team Leader Review (indicate date for each review)	☐ None 1/10/12, 4/27/11	
	PMR/PMC Development Templates (indicate total number)	⊠ None	
	Clinical Information ⁵		
*	Clinical Reviews		
	Clinical Team Leader Review(s) (indicate date for each review)	N/A	
	Clinical review(s) (indicate date for each review)	12/19/11, 3/10/09	
	Social scientist review(s) (if OTC drug) (indicate date for each review)	⊠ None	
*	Financial Disclosure reviews(s) or location/date if addressed in another review	See MOR	
	OR If no financial disclosure information was required, check here and include a	See Work	
	review/memo explaining why not (indicate date of review/memo)		
*	Clinical reviews from immunology and other clinical areas/divisions/Centers (indicate date of each review)	⊠ None	
*	Controlled Substance Staff review(s) and Scheduling Recommendation (indicate date of each review)	☑ Not applicable	
*	Risk Management REMS Documents and Supporting Statement (indicate date(s) of submission(s)) REMS Memo(s) and letter(s) (indicate date(s)) Risk management review(s) and recommendations (including those by OSE and CSS) (indicate date of each review and indicate location/date if incorporated into another review)	⊠ None	

⁵ Filing reviews should be filed with the discipline reviews.

*	DSI Clinical Inspection Review Summary(ies) (include copies of DSI letters to investigators)	☐ None requested
	Clinical Microbiology None	
*	Clinical Microbiology Team Leader Review(s) (indicate date for each review)	☐ None
	Clinical Microbiology Review(s) (indicate date for each review)	☐ None
	Biostatistics None	
*	Statistical Division Director Review(s) (indicate date for each review)	None
	Statistical Team Leader Review(s) (indicate date for each review)	☐ None
	Statistical Review(s) (indicate date for each review)	None
	Clinical Pharmacology None	
*	Clinical Pharmacology Division Director Review(s) (indicate date for each review)	None Non
	Clinical Pharmacology Team Leader Review(s) (indicate date for each review)	None Non
	Clinical Pharmacology review(s) (indicate date for each review)	☐ None 2/12/09
*	DSI Clinical Pharmacology Inspection Review Summary (include copies of DSI letters)	X None
	Nonclinical None	
*	Pharmacology/Toxicology Discipline Reviews	
	ADP/T Review(s) (indicate date for each review)	None Non
	Supervisory Review(s) (indicate date for each review)	None None
	 Pharm/tox review(s), including referenced IND reviews (indicate date for each review) 	None 12/11/09, 4/22/09
*	Review(s) by other disciplines/divisions/Centers requested by P/T reviewer (indicate date for each review)	⊠ None
*	Statistical review(s) of carcinogenicity studies (indicate date for each review)	No carc
*	ECAC/CAC report/memo of meeting	None Included in P/T review, page
*	DSI Nonclinical Inspection Review Summary (include copies of DSI letters)	None requested None requested
	Product Quality None	
*	Product Quality Discipline Reviews	
	ONDQA/OBP Division Director Review(s) (indicate date for each review)	None 9/22/10, 1/28/10, 4/28/09
	 Branch Chief/Team Leader Review(s) (indicate date for each review) 	None 4/28/09, 5/21/08
	 Product quality review(s) including ONDQA biopharmaceutics reviews (indicate date for each review) 	None 12/2/11, 4/21/11, 9/22/10, 1/22/10, 4/23/09
٠	Microbiology Reviews NDAs: Microbiology reviews (sterility & pyrogenicity) (OPS/NDMS) (indicate date of each review) BLAs: Sterility assurance, microbiology, facilities reviews (OMPQ/MAPCB/BMT) (indicate date of each review)	Not needed 12/1/11, 9/17/10, 9/1/10, 1/12/10, 4/23/09
*	Reviews by other disciplines/divisions/Centers requested by CMC/quality reviewer (indicate date of each review)	☐ None 4/26/11

*	Environmental Assessment (check one) (original and supplemental applications)	
	Categorical Exclusion (indicate review date)(all original applications and all efficacy supplements that could increase the patient population)	
	Review & FONSI (indicate date of review)	
	Review & Environmental Impact Statement (indicate date of each review)	
*	Facilities Review/Inspection	
	NDAs: Facilities inspections (include EER printout) (date completed must be within 2 years of action date) (only original NDAs and supplements that include a new facility or a change that affects the manufacturing sites ⁶)	Date completed: 8/22/11 ☐ Acceptable ☐ Withhold recommendation ☐ Not applicable
	☐ BLAs: TB-EER (date of most recent TB-EER must be within 30 days of action date) (original and supplemental BLAs)	Date completed: Acceptable Withhold recommendation
*	NDAs: Methods Validation (check box only, do not include documents)	☐ Completed ☐ Requested ☐ Not yet requested ☐ Not needed (per review)

⁶ I.e., a new facility or a change in the facility, or a change in the manufacturing process in a way that impacts the Quality Management Systems of the facility.

Appendix to Action Package Checklist

An NDA or NDA supplemental application is likely to be a 505(b)(2) application if:

- (1) It relies on published literature to meet any of the approval requirements, and the applicant does not have a written right of reference to the underlying data. If published literature is cited in the NDA but is not necessary for approval, the inclusion of such literature will not, in itself, make the application a 505(b)(2) application.
- (2) **Or** it relies for approval on the Agency's previous findings of safety and efficacy for a listed drug product and the applicant does not own or have right to reference the data supporting that approval.
- (3) **Or** it relies on what is "generally known" or "scientifically accepted" about a class of products to support the safety or effectiveness of the particular drug for which the applicant is seeking approval. (Note, however, that this does not mean *any* reference to general information or knowledge (e.g., about disease etiology, support for particular endpoints, methods of analysis) causes the application to be a 505(b)(2) application.)

Types of products for which 505(b)(2) applications are likely to be submitted include: fixed-dose combination drug products (e.g., heart drug and diuretic (hydrochlorothiazide) combinations); OTC monograph deviations(see 21 CFR 330.11); new dosage forms; new indications; and, new salts.

An efficacy supplement can be either a (b)(1) or a (b)(2) regardless of whether the original NDA was a (b)(1) or a (b)(2).

An efficacy supplement is a 505(b)(1) supplement if the supplement contains all of the information needed to support the approval of the change proposed in the supplement. For example, if the supplemental application is for a new indication, the supplement is a 505(b)(1) if:

- (1) The applicant has conducted its own studies to support the new indication (or otherwise owns or has right of reference to the data/studies).
- (2) **And** no additional information beyond what is included in the supplement or was embodied in the finding of safety and effectiveness for the original application or previously approved supplements is needed to support the change. For example, this would likely be the case with respect to safety considerations if the dose(s) was/were the same as (or lower than) the original application.
- (3) **And** all other "criteria" are met (e.g., the applicant owns or has right of reference to the data relied upon for approval of the supplement, the application does not rely for approval on published literature based on data to which the applicant does not have a right of reference).

An efficacy supplement is a 505(b)(2) supplement if:

- (1) Approval of the change proposed in the supplemental application would require data beyond that needed to support our previous finding of safety and efficacy in the approval of the original application (or earlier supplement), and the applicant has not conducted all of its own studies for approval of the change, or obtained a right to reference studies it does not own. For example, if the change were for a new indication AND a higher dose, we would likely require clinical efficacy data and preclinical safety data to approve the higher dose. If the applicant provided the effectiveness data, but had to rely on a different listed drug, or a new aspect of a previously cited listed drug, to support the safety of the new dose, the supplement would be a 505(b)(2).
- (2) **Or** the applicant relies for approval of the supplement on published literature that is based on data that the applicant does not own or have a right to reference. If published literature is cited in the supplement but is not necessary for approval, the inclusion of such literature will not, in itself, make the supplement a 505(b)(2) supplement.
- (3) **Or** the applicant is relying upon any data they do not own or to which they do not have right of reference.

If you have questions about whether an application is a 505(b)(1) or 505(b)(2) application, consult with your ODE's ADRA.

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From: Duvall Miller, Beth A

Sent: Wednesday, April 27, 2011 5:12 PM

To: Cottrell, Christy L.

Cc: Kim, Tamy; Kacuba, Alice; Cross Jr, Frank H

Subject: NDA 22-312, docetaxel for injection - cleared for action (again)

Attachments: N22312_assessment form.doc

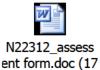
Christy,

We discussed your application at Monday's clearance meeting and you are cleared again for action from a 505(b)(2) perspective. My understanding is that this application is heading for CR again; if some reason you are now planning on approval, please let me know as there was one loose end that we didn't reach a final decision on that I would need to 'clear'.

Finally, please make the following revisions to your 505(b)(2) assessment before archiving in DARRTS, but also defer finalizing in DARRTS until you are heading towards approval. I've attached the version you previously sent in 2009 (I think that's the one and only version we got, which is fine) and made some mark-ups within as indicated below in the list.

- Under Application Information please update the PDUFA Goal Date and make sure the
 indications listed are the ones Apotex still seeks (i.e., if Apotex is now seeking the H/N
 indications)
- Q4: please see marked-up edits and comments within attached doc. Please make sure that the appropriate reason for granting the waiver for *in vivo* bioequivalence data is correctly captured in assessment and documented in appropriate reviews (see also further below in this email string where this issue was raised).
- Q11: Please confirm that these products are pharmaceutical equivalents as opposed to
 pharmaceutical alternatives and update responses to Q11 and Q12 accordingly. Then update
 and potentially move the list of other PE/PA products by omitting Taxotere from the list since
 it's the product relied-upon in the application and the Hospira product NDA 22234 is now
 approved. (see mark-ups and comments in attached)
- Q15: Under the Para IV information where you indicated the applicant had been sued for patent infringement, please indicate that the 30-month stay of approval expired 12/30/10.

Finally, I note that the attached assessment is an older version of the assessment, but there's no need for you to complete a new one. Just make the changes to this version as indicated above and archive in DARRTS as you head towards approval.



Reference ID: 3071270

Beth Duvall- Miller

Team Leader, Regulatory Affairs Team

CDER/Office of New Drugs <u>Direct Phone Number</u>: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Quaintance, Kim M

Sent: Wednesday, May 12, 2010 2:43 PM

To: Kacuba, Alice

Cc: Kim, Tamy; Duvall Miller, Beth A; Tilley, Amy

Subject: RE: NDA 22-312, docetaxel for injection - cleared for action

Hi Alice,

We discussed this application at yesterday's clearance meeting, and it is cleared for action from a (b)(2) perspective. If you can resolve the CMC issues and plan to take a TA action this time, please send the letter through us (Beth and I) for a quick (we promise!) look. The TA letter template has been updated so make sure you pull the new template from the CST eRoom.

We are now advising RPMs not to finalize the (b)(2) assessment until the application is approved, so if you haven't yet done so, please hold off for now. However, do not fret if it has already been entered into DARRTS; an addendum can always be prepared if necessary.

Please let me know if you have any questions. Kim

From: Kacuba, Alice

Sent: Thursday, May 06, 2010 2:54 PM
To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

Importance: High

May be CMC deficiencies again

(b) (4)

However, CMC says they are using the same manuf facilities for this application so they think that it may affect this application too. What fun! Always something, isn't there.

From: Duvall Miller, Beth A

Sent: Thursday, May 06, 2010 2:47 PM

To: Kacuba, Alice

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

That's what I thought, thanks for confirming.

Reference ID: 3071270

Do you think it will be a TA or are there deficiencies (again) that will make it a CR?

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs Direct Phone Number: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Kacuba, Alice

Sent: Thursday, May 06, 2010 2:28 PM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

Beth,

The suit has not been resolved yet, so best they could get is a TA again.

Thanks. Alice

From: Duvall Miller, Beth A

Sent: Thursday, May 06, 2010 1:47 PM

To: Kacuba, Alice

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

Hi Alice,

Did you have a chance to find out the status of the patent infringement suit?

I'd like to send the b(2) agenda out by COB today, but definitely must get it out by tomorrow. Any updates would be appreciated.

Thanks,

Beth

Beth Duvall- Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Kacuba, Alice

Sent: Monday, May 03, 2010 9:10 PM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

I am out Tuesday and will be back in office Wed and will give you an update. Is that too late?

From: Duvall Miller, Beth A

Sent: Monday, May 03, 2010 3:22 PM

To: Kacuba, Alice

Cc: Quaintance, Kim M; Kim, Tamy

Subject: FW: NDA 22-312, docetaxel for injection - planned action this cycle?

Hi Alice,

Sorry to bother you. I just got Amy's out of office message; looks like she won't be back until Monday, the date of our clearance meeting. Do you know the status of this application, specifically the patent infringement law suit?

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 <u>OND IO Phone Number</u>: (301) 796-0700

Fax: (301) 796-9855

From: Duvall Miller, Beth A

Sent: Monday, May 03, 2010 3:20 PM

To: Tilley, Amy

Cc: Quaintance, Kim M; Kim, Tamy; Cottrell, Christy L.

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

Reference ID: 3071270

Hi Amy,

I'm preparing the updated summary of this application (the resubmission) for Monday's 5/10 clearance meeting.

Can you please update me on the status of the patent infringement suit that filed was against Apotex re: Taxotere patents 5438072, 5698582, 5714512, and 5750561 - has it been resolved been resolved? I checked the resubmission in the EDR, but it looks like it primarily addresses the CMC/micro deficiencies and updated labeling. The updated labeling does carve out the H/N cancer indications, but I did not see any reference in the resubmission regarding the infringement lawsuit.

Please reply to all in your response.

Thanks,

Beth

Beth Duvall- Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs Direct Phone Number: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Cottrell, Christy L.

Sent: Thursday, April 29, 2010 3:29 PM To: Duvall Miller, Beth A; Tilley, Amy Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - planned action this cycle?

Beth,

Amy Tilley is handling this application for me. Amy- can you respond to Beth's inquiry?

Thanks, Christy

From: Duvall Miller, Beth A

Sent: Thursday, April 29, 2010 3:15 PM

Cottrell, Christy L. To:

Cc: Quaintance, Kim M; Kim, Tamy

RE: NDA 22-312, docetaxel for injection - planned action this cycle? Subject:

Hi Christy,

We'll be discussing your application (RS) at the upcoming clearance meeting on May 10th – are you planning to approve this application this cycle, i.e., have the patents expired or otherwise been resolved? I have your PDUFA due date as 5/24, is that correct?

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs Direct Phone Number: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Cottrell, Christy L.

Sent: Friday, January 08, 2010 10:22 AM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Kim, Tamy

Subject: RE: NDA 22-312, docetaxel for injection - b2 clearance

Beth,

This will end up being a Complete Response (again)- CMC/Micro issues. The PDUFA date is 1/29. I don't think we'll be taking action much earlier than that.

Christy

From: Duvall Miller, Beth A

Sent: Wednesday, January 06, 2010 11:01 AM

To: Cottrell, Christy L.

Cc: Quaintance, Kim M; Kim, Tamy

Subject: NDA 22-312, docetaxel for injection - b2 clearance

Hi Christy,

Just checking in with you on this application. I realize the RS arrived back in July and the due date for this application is 1/30/2010. What action are you planning this cycle and when?

Beth

Beth Duvall- Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs Direct Phone Number: (301) 796-0513

OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9855

From: Duvall Miller, Beth A

Sent: Monday, March 30, 2009 4:37 PM **To:** Duvall Miller, Beth A; Cottrell, Christy L. **Cc:** Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - recommendations for TA action

I meant to also say if you are planning on a TA action after all, please send us your draft letter so we can help craft the language I referred to below.

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9858

From: Duvall Miller, Beth A

Sent: Monday, March 30, 2009 4:36 PM

To: Cottrell, Christy L.

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: NDA 22-312, docetaxel for injection - recommendations for TA action

Hi Christy,

We discussed your application again at today's clearance meeting. With OCC's input, we advise the following with respect to taking a TA action:

- For the purposes of the labeling, please revise the label to once again include all 5 of the indications that Apotex sought in the original application including the H/N and gastric cancer indications that had been carved out because of unexpired patents/exclusivity. We recognize this is a different approach from the one taken in the Hospira docetaxel b(2) application but we believe this is the cleanest approach for administratively acting on this application.
- For the TA letter, we will help you craft language that alludes to the existing patents and exclusivities without implying the date that the patents expire (as the Hospira TA letter) did

since those patent protections and exclusivities are numerous and complex.

However, if you are still planning a CR as indicated below, these instructions are a moot point. But please file this away for future reference when it's time to issue a TA letter. As always, we will need to clear your application before each and every action.

Let me know if you have any questions. Glen attended today's meeting too so he may be able to help shed some light on this advice.

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team

CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 <u>OND IO Phone Number</u>: (301) 796-0700

Fax: (301) 796-9858

From: Cottrell, Christy L.

Sent: Tuesday, March 17, 2009 3:39 PM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

I'll know more next week. If it's going to be a CR, we may do it sooner. I'll let you know.

Christy

From: Duvall Miller, Beth A

Sent: Tuesday, March 17, 2009 3:38 PM

To: Cottrell, Christy L.

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

Thanks for the heads up – we will still need to clear the application for any kind of action. And if there are b(2)-related deficiencies, we would definitely want those included in your CR letter.

We have your action date as 4/28/09 – please let us know if you are planning on taking an action sooner than that.

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 <u>OND IO Phone Number</u>: (301) 796-0700

Fax: (301) 796-9858

From: Cottrell, Christy L.

Sent: Tuesday, March 17, 2009 3:30 PM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

Beth,

Just so you're up-to-date....it is possible that this application is headed for a Complete Response action. I should have a final decision on that next Thursday, 3/26. There were several outstanding CMC/Micro Information Requests to which the applicant just responded late last week. We don't know yet whether the responses are adequate or not. Team meeting next week to discuss.

Christy

From: Duvall Miller, Beth A

Sent: Tuesday, March 17, 2009 3:21 PM

To: Cottrell, Christy L.

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

Thanks Christy. We'll discuss this response with OCC/ORP at our next clearance meeting (3/30) and get back to you.

Beth

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs

<u>Direct Phone Number</u>: (301) 796-0513 OND IO Phone Number: (301) 796-0700

Fax: (301) 796-9858

France Oatharll Obeleta I

From: Cottrell, Christy L.

Sent: Tuesday, March 17, 2009 2:27 PM

To: Duvall Miller, Beth A

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

See attached feedback from ONDQA team re: Bioequivalence waiver.

<< Message: RE: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions >> Christy

From: Duvall Miller, Beth A

Sent: Tuesday, March 17, 2009 10:46 AM

To: Cottrell, Christy L.

Cc: Quaintance, Kim M; Jones, Glen D (CDER)

Subject: NDA 22-312, docetaxel for injection - f/up b(2) clearance questions

Hi Christy,

We discussed your application with ORP/OCC at yesterday's b(2) clearance meeting and do have some f/up questions for you regarding the waiver of bioequivalence studies.

According to your b(2) assessment, "Based on the comparison to the RLD, ONDQA granted Apotex a waiver of the bioequivalence requirements for Docetaxel Injection® in accordance with 21 CFR 320.22 (b)1."

21 CFR 320.22 (b)1 gives the following criteria for granting such a waiver (key points highlighted in yellow):

- b) For certain drug products, the in vivo bioavailability or bioequivalence of the drug product may be self-evident. FDA shall waive the requirement for the submission of evidence obtained in vivo measuring the bioavailability or demonstrating the bioequivalence of these drug products. A drug product's in vivo bioavailability or bioequivalence may be considered self-evident based on other data in the application if the product meets one of the following criteria:
- (1) The drug product:
- (i) Is a parenteral solution intended solely for administration by injection, or an ophthalmic or otic solution; and
- (ii) Contains the same active and inactive ingredients in the same concentration as a drug product that is the subject of an approved full new drug application or abbreviated new drug application.

Your assessment goes on to say that "Compared to Taxotere, the Apotex formulation contains reduced amounts of alcohol and has a different excipient (polyethylene Glycol 300 NF) added to the Docetaxel Injection (b) (4)

The fact that the b(2) docetaxel has a different excipient than Taxotere appears to contradict the criteria spelled out in 21 CFR 320.22 (b)1 above which leaves us wondering whether or not there is some other reason the waiver was granted. It appears that a similar waiver was requested and granted to Hospira for their docetaxel application (TA on 8/11/08).

The text quoted from your b(2) assessment appears to be taken from the clin pharm review I found in DFS (attached). That review also indicates an ONDQA decision on this but I could not find such a review or memo in both DFS or in DARRTS (under IND 78,376) although I did find a short OCP memo from 9/2007 in DARRTS (also attached). Is there some other documentation that explains why the BE waiver was granted? I'm also attaching the CMC review for this application which does not mention the BE waiver.

We may also have some f/up questions regarding the carving out of indications in the label, but we'll save that for a separate email as we're still doing some homework on that one.

Beth

<< File: N22312 BE waiver review.pdf >> << File: N22312 CMC
review.pdf >> << File: N22312 OCP review.pdf >>

Beth Duvall-Miller

Team Leader, Regulatory Affairs Team CDER/Office of New Drugs <u>Direct Phone Number</u>: (301) 796-0513 <u>OND IO Phone N</u>umber: (301) 796-0700

Fax: (301) 796-9858

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/s/	
CHRISTY L COTTRELL 01/12/2012	

From: Cottrell, Christy L.

Sent: Tuesday, November 22, 2011 2:55 PM

To: 'kkrishna1@apotex.com'

Subject: NDA 022312 for Docetaxel Injection: Request for labeling revision

Importance: High

Kiran,

Please refer to your pending NDA 022312 for Docetaxel Injection. See below for a request from the CMC reviewer for a change to the carton/container labeling.

Revise your proposed carton and container labels for Docetaxel Injection (Concentrate) and Docetaxel Injection (Diluent) to include the Lot No. and Expiration date printed in the mock up labels.

Please submit your revised labeling by Wednesday, November 30, 2011. Feel free to contact me with any questions.

Regards, Christy Cottrell

Christy Cottrell | Regulatory Project Manager | Division of Oncology Products 1, CDER, FDA 10903 New Hampshire Avenue, Room 2122 | Silver Spring, MD 20993





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/s/
CHRISTY L COTTRELL 11/22/2011

From: Cottrell, Christy L.

Sent: Monday, October 03, 2011 10:54 AM

To: 'kkrishna1@apotex.com'

Subject: NDA 022312 for Docetaxel Injection: Labeling information request

Importance: High

Kiran,

Please refer to your pending NDA 022312 for Docetaxel Injection. Below are comments from OSE regarding the carton/container labeling.

General Comment for the Active Drug Labels and Carton Labeling (20 mg/0.5 mL and 80 mg/2 mL)

• The established name is difficult to read

We recommend you

in order to improve the visibility of the established name.

Container Labels (20 mg/0.5 mL and 80 mg/2 mL)

Box the caution statement.

Diluent Labeling

Place the following in the caution statement in bold font: "1.8 mL" and "7.1 mL".

Carton Labeling (20 mg/0.5 mL and 80 mg/2mL)

- Decrease the size of the "Rx Only" statement and relocate it to a position below the "FOR INTRAVENOUS INFUSION..." statement. Reposition the statements "*see side panel..." and "FOR INTRAVENOUS INFUSION..." higher up on the principal display panel and below the dark blue line.

Please implement these revisions and submit revised carton/container labeling by October 17, 2011. Feel free to contact me with any questions.

Regards, Christy

Christy Cottrell | Regulatory Project Manager | Division of Oncology Products 1, CDER, FDA 10903 New Hampshire Avenue, Room 2122 | Silver Spring, MD 20993
2301.796.4256 (phone) • 301.796.9845 (fax) | ✓ christy.cottrell@fda.hhs.gov

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/s/
CHRISTY L COTTRELL 10/03/2011



Food and Drug Administration Silver Spring MD 20993

NDA 022312

INFORMATION REQUEST

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Apotex Inc.

Attention: Michael Balon

2400 North Commerce Parkway, Suite 400

Weston, Florida 33326

Dear Mr. Balon:

Please refer to your New Drug Application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection.

FDA investigators have identified significant violations to the bioavailability and bioequivalence requirements of Title 21, Code of Federal Regulation, Part 320 in bioanalytical studies conducted by Cetero Research in Houston, Texas (Cetero). The pervasiveness and egregious nature of the violative practices by Cetero has led FDA to have significant concerns that the bioanalytical data generated at Cetero from April 1, 2005 to June 15, 2010, as part of studies submitted to FDA in New Drug Applications (NDA) and Supplemental New Drug Applications (sNDA) are unreliable. FDA has reached this conclusion for three reasons: (1) the widespread falsification of dates and times in laboratory records for subject sample extractions, (2) the apparent manipulation of equilibration or "prep" run samples to meet pre-determined acceptance criteria, and (3) lack of documentation regarding equilibration or "prep" runs that prevented Cetero and the Agency from determining the extent and impact of these violations.

Serious questions remain about the validity of any data generated in studies by Cetero Research in Houston, Texas during this time period. In view of these findings, FDA is informing holders of approved and pending NDAs of these issues.

The impact of the data from these studies (which may include bioequivalence, bioavailability, drug-drug interaction, specific population, and others) cannot be assessed without knowing the details regarding the study and how the data in question were considered in the overall development and approval of your drug product. At this time, the Office of New Drugs is searching available documentation to determine which NDAs are impacted by the above findings.

¹ These violations include studies conducted by Bioassay Laboratories and BA Research International specific to the Houston, Texas facility.

To further expedite this process, we ask that you inform us if you have submitted any studies conducted by Cetero Research in Houston, Texas during the time period of concern (April 1, 2005 to June 15, 2010). Please submit information on each of the studies, including supplement number (if appropriate), study name/protocol number, and date of submission. With respect to those studies, you will need to do one of the following: (a) re-assay samples if available and supported by stability data, (b) repeat the studies, or (c) provide a rationale if you feel that no further action is warranted.

Please respond to this query within 30 days from the date of this letter.

This information should be submitted as correspondence to your NDA. In addition, please provide a desk copy to:

Office of New Drugs Center for Drug Evaluation and Research 10903 New Hampshire Avenue Bldg. 22, Room 6300 Silver Spring, MD 20993-0002

If you have any questions, call Alice Kacuba, Chief Project Manager Staff, at (301) 796-1381.

Sincerely,

{See appended electronic signature page}

Robert L. Justice, M.D., M.S. Director Division of Drug Oncology Products Office of Oncology Drug Products Center for Drug Evaluation and Research

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/s/
ALICE KACUBA 09/29/2011 Signing for Dr. Justice.

MEMORANDUM OF TELECONFERENCE MINUTES

TELECON DATE: August 4, 2011

TIME: 12:00pm APPLICATION: NDA 022312

DRUG NAME: Docetaxel Injection

TYPE OF MEETING: Informal regulatory guidance telecon

FDA ATTENDEES: Christy Cottrell, DDOP

EXTERNAL CONSTITUENT ATTENDEES: Kiran Krishnan, Apotex, Inc.

BACKGROUND:

On May 4, 2011, FDA issued a Complete Response letter for NDA 022312 for Docetaxel Injection. That letter was the fourth Complete Response letter issued for the application. On July 12, 2011, the applicant provided a resubmission addressing deficiencies from the Complete Response letter. In a team meeting on July 28, 2011, it was determined that this would be designated as a Class 2 resubmission with a 6 month PDUFA goal date. On August 3, 2011, the applicant inquired about the classification and PDUFA due date. I notified them of the Class 2 designation and PDUFA date of January 12, 2012. The applicant then requested an appeal and explained that they believe this submission qualifies as a Class 1 resubmission. On August 4, 2011, at 12:00pm, I spoke with Mr. Krishnan from Apotex, Inc. to explain the rationale for classifying this as a Class 2 resubmission. Details of that discussion are outlined below.

DISCUSSION:

I began by explaining to Mr. Krishnan that following his email appeal request of August 3, 2011, numerous staff had discussed this application and his concerns about the Class 2 designation. I gave him the names of those involved in the discussions: Alice Kacuba (Chief Project Management Staff), the CMC review team, Sarah Pope (Branch Chief-ONDQA) and Rik Lostritto (Division Director-ONDQA). I went on to state that the primary reason this was designated as a Class 2 resubmission was because there was a cGRMP compliance deficiency in the last action letter, therefore, any resubmission automatically requires an EES request, triggering the Class 2 designation. I stated that this was a regulatory requirement and was not negotiable. Mr. Krishnan argued that Apotex has received an Acceptable inspection and had included the letter with the submission. I explained that we cannot just "take Apotex's word for it" and that there are internal processes for requesting inspection updates from the District Offices. I further explained that a formal request must be sent to the District Office, then they make a determination about whether an inspection is required, they forward a report to us at headquarters and then we must review the report.

In addition, I reminded Mr. Krishnan of the outstanding gratuitous amendments from the last review cycle that were still outstanding and required review. He asked why they were not reviewed in the last cycle. I explained that at the time of their submission, we already knew that there were "fatal" compliance issues that would result in a Complete Response action and that it

was decided that we would not expend any additional resources on this application when we knew there would not be a positive action. I reminded Mr. Krishnan that in the cover letter for the current resubmission, Apotex asked that the gratuitous amendments be reviewed in this cycle. I also informed him that the amendments contained a large amount of new data requiring in-depth CMC review and microbiology consultation. He once again replied that the amendments should have been reviewed in the last cycle and that he did not believe they should impact the Class 1/2 designation for this cycle. I reminded him that even if the amendments had been reviewed last cycle, this resubmission would still have been a Class 2 based on the outstanding compliance issues.

At this point in the discussion, Mr. Krishnan acknowledged the rationale for the designation but noted that it is different than the way Office of Generics operates. I informed him that the processes for each Office are different and that the company should familiarize themselves with the policies of the Office of New Drugs, given that this is Apotex's first NDA.

Mr. Krishnan asked that the Division honor Apotex's request for an expedited review of this resubmission. I informed him that with a Class 2 designation, we have 6 months to review the submission and that I could not guarantee an expedited review. He acknowledged my statement, but again reiterated that they would appreciate a quick review. I told him that I would pass the request along to the review team, but noted that they are working on multiple applications simultaneously, and that it is unlikely that this application would receive an expedited review. I told Mr. Krishnan that if he still had concerns about the Class 2 designation and associated review timeline, that he should follow the procedure for formal dispute resolution and send a letter to Dr. Rick Pazdur.

Christy Cottrell Regulatory Project Manager

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/s/
CHRISTY L COTTRELL 09/26/2011



Food and Drug Administration Silver Spring MD 20993

NDA 022312

INFORMATION REQUEST

Apotex Corp.
US Agent for Apotex Inc.
Attention: Kiran Krishnan
Associate Director, Regulatory Affairs
2400 North Commerce Parkway, Suite 400
Weston, FL 33326

Dear Mr. Krishnan:

Please refer to your New Drug Application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL.

We also refer to your July 12, 2011, submission in response to the FDA Complete Response letter dated May 4, 2011, and to your January 27, 2011, amendment. We have the following comment and requests for additional information. Please submit your written response no later than Friday, August 12, 2011.

Clarify if the manufacturing and sterilization equipment used at the Apotex Richmond Hill site for the docetaxel diluent is the same as that used at the Apotex Signet Campus for the docetaxel concentrate.

If you have any questions, call Deborah Mesmer, Regulatory Health Project Manager, at 301-796-4023.

Sincerely,

{See appended electronic signature page}

Sarah Pope Miksinski, Ph.D. Branch Chief, Branch II Division of New Drug Quality Assessment I Office of New Drug Quality Assessment Center for Drug Evaluation and Research

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/s/						
SARAH P MIKSINSKI 08/10/2011						

## REQUEST FOR CONSULTATION To QUARGO PRICE							
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□ CONTROLLED STUDIES □ PROTOCOL REVIEW □ OTHER (SPECIFY BELOW): □ DISSOLUTION □ DISSOLUTION □ BIOAVALABILTY STUDIES □ PROTOCOL-BIOPHARMACEUTICS □ PROTOCOL-BIOPHARMACEUTI	STATISTICAL EVALUATION BRAN	СН			STATISTICAL APPLICATION BRANCH		
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□ PHASE IV SURVEILLANCE/EPIDEMIOLOGY PROTOCOL □ DRUG USE e.g. POPULATION EXPOSURE, ASSOCIATED DIAGNOSES □ CASE REPORTS OF SPECIFIC REACTIONS (List below) □ COMPARATIVE RISK ASSESSMENT ON GENERIC DRUG GROUP V. SCIENTIFIC INVESTIGATIONS □ CLINICAL □ PRECLINICAL COMMENTS/SPECIAL INSTRUCTIONS: This is a Class 2 Resubmission (review cycle #5) for a new 505(b)(2) NDA for Docetaxel Injection. Request that DMEPA and DRISK review product labeling and PPI and provide comments by October 30, 2011. PDUFA date is January 12, 2012, with a target action date sometime in December. Link to submission is: \(\frac{1}{1}\text{NCDSESUB1\EVSPROD\NDA022312\022312\enx}\). Assigned reviewers will be invited to labeling meetings. CMC Reviewer = Josephine Jee PM = Christy Cottrell METHOD OF DELIVERY (Check one) □ MAIL □ HAND	☐ BIOAVAILABILTY STUDIES				□ PROTOCOL-BIOPHARMACEUTICS		
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This is a Class 2 Resubmission (review cycle #5) for a new 505(b)(2) NDA for Docetaxel Injection. Request that DMEPA and DRISK review product labeling and PPI and provide comments by October 30, 2011. PDUFA date is January 12, 2012, with a target action date sometime in December. Link to submission is:							

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/s/						
CHRISTY L COTTRELL 08/08/2011						

Food and Drug Administration Silver Spring MD 20993

NDA 022312

ACKNOWLEDGE – CLASS 2 RESPONSE

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, Florida 33326

Attention: Kiran Krishnan

Director, Regulatory Affairs

Dear Mr. Krishnan:

We acknowledge receipt on July 12, 2011, of your July 12, 2011, resubmission of your new drug application submitted pursuant to section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection 40 mg/mL (20 mg/0.5mL and 80 mg/2mL).

We consider this a complete, class 2 response to our May 4, 2011, action letter. Therefore, the user fee goal date is January 12, 2012.

If you have any questions, call Christy Cottrell, Regulatory Project Manager, at (301) 796-4256.

Sincerely,

{See appended electronic signature page}

Alice Kacuba, RN, MSN, RAC Chief, Project Management Staff Division of Drug Oncology Products Office of Oncology Drug Products Center for Drug Evaluation and Research

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/s/	•					
ALICE KACUBA 08/03/2011						

CMC MICRO & STERILITY ASSURANCE DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE **REVIEW REQUEST** FOOD AND DRUG ADMINISTRATION FROM: Deborah Mesmer, ONDQA PM, 301.796.4023 TO (Division/Office): New Drug Microbiology Staff Jim McVey/ Vera Viehmann **E-mail to:** CDER OPS IO MICRO PROJECT MANAGER (if other than sender): Paper mail to: WO Bldg 51, Room 4193 REQUEST DATE IND NO. TYPE OF DOCUMENT DATE OF DOCUMENT NDA NO. 08/03/11 022312 **Amendment** January 27, 2011 July 12, 2011 **NDA Resubmission** NAMES OF DRUG PRIORITY CONSIDERATION PDUFA DATE DESIRED COMPLETION DATE **Docetaxel injection** Class 2 resubmission October 10, 2011 January 12, 2012 NAME OF APPLICANT OR SPONSOR: Apotex GENERAL PROVISIONS IN APPLICATION □ 30-DAY SAFETY REVIEW NEEDED □ CBE-0 SUPPLEMENT □ NDA FILING REVIEW NEEDED BY: □ CBE-30 SUPPLEMENT BUNDLED ☐ CHANGE IN DOSAGE, STRENGTH / POTENCY DOCUMENT IN EDR COMMENTS / SPECIAL INSTRUCTIONS: This is the fifth review cycle for this NDA. Requesting microbiology review for the amendment dated January 27, 2011, which was submitted but not reviewed in the 4th review cycle. This amendment provides changes/corrections of equipment, manufacturing/packaging process NDA was resubmitted July 12, 2011 The submission is electronic. Chemistry reviewer: Josephine Jee Project Manager for Quality: Debbie Mesmer DDOP Project Manager: Christy Cottrell Please advise Debbie Mesmer of assigned reviewer. SIGNATURE OF REQUESTER REVIEW REQUEST DELIVERED BY (Check one): ■ DARRTS □ EDR □ E-MAIL □ MAIL □ HAND DOCUMENTS FOR REVIEW DELIVERED BY (Check one): ■EDR □ E-MAIL □ MAIL □ HAND

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/s/
DEBORAH M MESMER 08/03/2011

From: Mesmer, Deborah

Sent: Thursday, March 10, 2011 1:15 PM

To: McVey, James; CDER OPS IO MICRO; Gantt, Sylvia

Cc: Mesmer, Deborah; Jee, Josephine M; Hussong, David; Cottrell, Christy L.; Pope Miksinski,

Sarah

Subject: Please cancel this request- - FW: Finalized - NDA 22312 CMC Micro & Sterility

Assurance Review Request (FRM-CONSULT-25)

Hello.

Please **cancel** this microbiology consult request dated March 8, 2011 for NDA 22312 for the amendment dated January 27, 2011.

Thank you.

Debbie

Deborah Mesmer

Regulatory Project Manager for Quality

Office of New Drug Quality Assessment (ONDQA)
Division of New Drug Quality Assessment (DNDQA1)
Food and Drug Administration
White Oak Building 21, Rm 1627
10903 New Hampshire Avenue
Silver Spring, MD 20993-0002

(301) 796-4023; p deborah.mesmer@fda.hhs.gov

From: Mesmer, Deborah

Sent: Tuesday, March 08, 2011 6:28 PM **To:** McVey, James; CDER OPS IO MICRO

Subject: FW: Finalized - NDA 22312 CMC Micro & Sterility Assurance Review Request (FRM-

CONSULT-25)

Requesting consult for pending NDA in DDOP. Requested completion date is April 7, 2011.

Thank you.

Debbie

From: oasfda@fda.gov [mailto:oasfda@fda.gov]

Sent: Tuesday, March 08, 2011 6:26 PM

To: Gantt, Sylvia; Mesmer, Deborah; Jee, Josephine M; Hussong, David; McVey, James; Cottrell,

Christy L.

Subject: Finalized - NDA 22312 CMC Micro & Sterility Assurance Review Request (FRM-

CONSULT-25)

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/s/						
DEBORAH M MESMER 03/10/2011						

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION		CMC MICRO & STERILITY ASSURANCE REVIEW REQUEST					
TO (Division/Office): New Drug Microbiology David Hussong/Jim McVey/Sylvia Gan			FROM: Deborah Mesmer, ONDQA PM, 301.796.4023				
E-mail to: CDER OPS IO MI Paper mail to: WO Bldg 51, Re				PROJECT MANAGER (if other than sender):			
REQUEST DATE IND NO. 03/08/11		NDA NO. 022312	TYPE OF DOCUMENT amendment		DATE OF DOCUMENT January 27, 2011		
NAMES OF DRUG Docetaxel injection		PRIORITY C	ONSIDERATION	PDUFA DATE May 17, 2011		DESIRED COMPLETION DATE	
NAME OF APPLICANT OR SPONSOR: Apotex April 7, 2011							
			GENERAL PROVISIO	ONS IN APPLICATION			
□ 30-DAY SAFETY REVIEW NEEDED □ CBE-0 SUPPLEMENT □ NDA FILING REVIEW NEEDED BY: □ CBE-30 SUPPLEMENT □ BUNDLED □ CHANGE IN DOSAGE, STRENGTH / POTENCY □ DOCUMENT IN EDR					NT		
COMMENTS / SPECIAL INSTRUCTIONS: Requesting microbiology review for the amendment dated January 27, 2011. This amendment provides changes/corrections of equipment, manufacturing/packaging process The submission is electronic. Chemistry reviewer: Josephine Jee Project Manager for Quality: Debbie Mesmer DDOP Project Manager: Christy Cottrell							
Please advise Debbie Mesmer of assigned reviewer.							
SIGNATURE OF REQUESTER				REVIEW REQUEST DELIVERED BY (Check one): ■ DARRTS □ EDR □ E-MAIL □ MAIL □ HAND			
				DOCUMENTS FOR REVIEW DELIVERED BY (Check one):			

■EDR □ E-MAIL □ MAIL □ HAND

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/s/
DEBORAH M MESMER 03/08/2011

Food and Drug Administration Silver Spring MD 20993

NDA 022312

ACKNOWLEDGE – CLASS 2 RESPONSE

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, Florida 33326

Attention: Kiran Krishnan

Director, Regulatory Affairs

Dear Mr. Krishnan:

We acknowledge receipt on November 15, 2010, of your November 12, 2010, resubmission of your new drug application submitted pursuant to section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL.

We consider this a complete, class 2 response to our September 22, 2010, action letter. Therefore, the user fee goal date is May 15, 2011.

If you have any questions, call me at (301) 796-4256.

Sincerely,

{See appended electronic signature page}

Christy Cottrell
Regulatory Project Manager
Division of Drug Oncology Products
Office of Oncology Drug Products
Center for Drug Evaluation and Research

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/s/ 	
CHRISTY L COTTRELL 02/22/2011	

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADM NISTRATION		REQUEST FOR CONSULTATION					
TO (Division/Office): Mail: OSE				FROM: Division of Drug Oncology Products Christy Cottrell, RPM			
DATE IND NO. January 12, 2011		NDA NO. NDA 022312	TYPE OF DOCUMENT Class 2 Resubmission	DATE OF DOCUMENT November 15, 2010			
NAME OF DRUG PRIORITY C Docetaxel Injection		ONSIDERATION	CLASSIFICATION OF DRUG	DESIRED COMPLETION DATE April 15, 2011			
NAME OF FIRM: Apotex, Inc.							
			REASON FO	DR REQUEST			
			I. GEN	IERAL			
□ PROGRESS REPORT □ END OF PHASE I □ NEW CORRESPONDENCE □ RESUBMISSION □ DRUG ADVERTISING □ SAFETY/EFFICAG □ ADVERSE REACTION REPORT □ PAPER NDA		SAFETY/EFFICACY	☐ RESPONSE TO DEFICIENCY LETTER ☐ FINAL PRINTED LABELING X LABELING REVISION ☐ ORIGINAL NEW CORRESPONDENCE ☐ FORMULATIVE REVIEW ☐ OTHER (SPECIFY BELOW):				
II. BIOMETRICS							
STATISTICAL EVALUATION BRAN	СН			STATISTICAL APPLICATION BRANCH			
☐ TYPE A OR B NDA REVIEW ☐ END OF PHASE II MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):				☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):			
,			III. BIOPHAR	RMACEUTICS			
☐ DISSOLUTION ☐ BIOAVAILABILTY STUDIES ☐ PHASE IV STUDIES				☐ DEFICIENCY LETTER RESPONSE ☐ PROTOCOL-BIOPHARMACEUTICS ☐ IN-VIVO WAIVER REQUEST			
			IV. DRUG E	XPERIENCE			
☐ PHASE IV SURVEILLANCE/EPI☐ DRUG USE e.g. POPULATION I☐ CASE REPORTS OF SPECIFIC☐ COMPARATIVE RISK ASSESSI	EXPOSURE, A REACTIONS	ASSOCIATED [(List below)		☐ REVIEW OF MARKETING EXPERIENCE☐ SUMMARY OF ADVERSE EXPERIENCE☐ POISON RISK ANALYSIS			
			V. SCIENTIFIC IN	NVESTIGATIONS			
☐ CLINICAL				□ PRECLINICAL			
are outstanding issues wattendance at labeling may 15, 2011. Request	vith the caneetings (ing composesue1)	arton and on TBS). Pridleted revie	container labeling, the or DMEPA reviewers when month prior = 0\NDA022312\0026	erefore, DDOP is requesting DNs were: Loretta Holmes and Kris April 15, 2011. Links to the sub	stine Arnwine. PDUFA date is omission is below:		
SIGNATURE OF REQUESTER Christy Cottrell				METHOD OF DELIVERY (Check one) X MAIL			
SIGNATURE OF RECEIVER				SIGNATURE OF DELIVERER			

/s/ 	
CHRISTY L COTTRELL 01/12/2011	

Memorandum

To: NDA 22-312

cc: Haripada Sarker, Ph.D., Josephine Jee

From: William Adams, acting for Sarah Pope Miksinski, Ph.D.

Date: 22 Sep 2010

Re: Final CMC Recommendation for NDA 22-312

NDA 22-312 (Docetaxel Injection) was initially submitted by Apotex, Inc. as a 505(b)(2) application on 28-MAR-2008 and was granted a standard review by the Agency. Chemistry, Manufacturing and Control (CMC) Review #1 (dated 23-APR-2009) identified several CMC deficiencies which were conveyed in a Complete Response (CR) letter dated 28-APR-2009.

The Applicant responded via a complete response submission dated 29-JUL-2009. This resubmission was reviewed in its entirety (CMC Review #2 dated 22-JAN-2010). Container/carton labels were also reviewed by the Division of Medication Errors Prevention and Analysis (DMEPA review finalized 27-JAN-2010). Several DMEPA comments appear to contradict the CMC reviewer's recommendations (see CMC Review #2). Due to the pending action date for this submission, as well as the recommended CR action for the submission, label and labeling deficiencies were deferred to the next review cycle and prior to approval of the NDA. A second CR letter was issued on 29-Jan-2010.

The Applicant responded via a complete response submission dated 24-Mar-2010. This resubmission was revised in its entirety (CMC review #3 dated 17-Sep-2010). Amendments to the application included changes in manufacturing and control sites, protocols for changes to manufacturing sites, and revised labeling. The only unresolved issues are GMP status of the proposed manufacturing and control facilities, and labeling. A third CR letter is to be issued based on facility issues.

I M ADAMS 10	
Adams, acting for Sarah Pope Miksinski	

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION		R	REQUEST FO	R CONSU	JLTATION	
TO (Office/Division): Sylvia Gantt, OPS, 301-796-2123			FROM (Name, Office/Division, and Phone Number of Requestor): Teshara G. Bouie, ONDQA, Division of Post-Marketing Assessment, 301-796-1649			
DATE September 13, 2010			TYPE OF DOCUMENT	,	DATE OF DOCUMENT November 24, 2009	
NAME OF DRUG PRIORITY CONSIDERATION Docetaxel Injection			CLASSIFICATION OF	DRUG	DESIRED COMPLETION DATE ASAP	
NAME OF FIRM: Apotex,	Inc.					
				OR REQUEST NERAL		
□ NEW PROTOCOL □ PRE-NDA MEETING □ PROGRESS REPORT □ END-OF-PHASE 2a MEE □ NEW CORRESPONDENCE □ END-OF-PHASE 2 MEET □ DRUG ADVERTISING □ RESUBMISSION □ ADVERSE REACTION REPORT □ SAFETY / EFFICACY ☑ MANUFACTURING CHANGE / ADDITION □ PAPER NDA □ MEETING PLANNED BY □ CONTROL SUPPLEMEN			TING			
			II. BIOM	IETRICS		
☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):			☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):			
			Ш. ВІОРНАЯ	RMACEUTICS		
☐ DISSOLUTION☐ BIOAVAILABILTY STUDI☐ PHASE 4 STUDIES	IES			☐ DEFICIENCY LETTER RESPONSE ☐ PROTOCOL - BIOPHARMACEUTICS ☐ IN-VIVO WAIVER REQUEST		
			IV. DRUG	SAFETY		
☐ PHASE 4 SURVEILLANCE ☐ DRUG USE, e.g., POPULA ☐ CASE REPORTS OF SPEC ☐ COMPARATIVE RISK ASS	TION EXPO IFIC REACT	SURE, ASSO TONS (List be	CIATED DIAGNOSES ·low)	☐ REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY ☐ SUMMARY OF ADVERSE EXPERIENCE ☐ POISON RISK ANALYSIS		
			V. SCIENTIFIC II	NVESTIGATIONS		
☐ CLINICAL				☐ NONCLINICAL		
COMMENTS / SPECIAL INSTRUCTIONS: This amendment provides this consult be assigned to Stephen Langille. This amendment is located in the EDR.						
signature of requestor Teshara G. Bouie	<u> </u>			METHOD OF DELIVERY (Check one) ☑ DARRTS ☐ EMAIL ☐ MAIL ☐ HAND		
PRINTED NAME AND SIGNA	TURE OF RI	ECEIVER		PRINTED NAME AND SIGNATURE OF DELIVERER		

Application Type/Number	Submission Type/Number	Submitter Name	Product Name			
NDA-22312	ORIG-1	APOTEX INC	DOCETAXEL INJECTION 40 MG ML			
This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.						
/s/						
TESHARA G BOU 09/13/2010	JIE					

Sent: Wednesday, August 25, 2010 1:48 PM

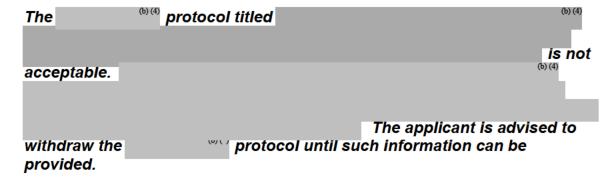
To: 'Kiran Krishnan'

Subject: NDA 22312 Docetaxel - Micro Information Request

Importance: High

Kiran,

Below is Micro Reviewers Information Request:



Regards.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA

10903 New Hampshire Avenue, Prom 2177 | Silver Spring, MD

10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD 20993

 $301.796.3994 \text{ (phone)} \bullet 301.796.9845 \text{ (fax)} \mid \boxtimes \text{amy.tilley@fda.hhs.gov}$

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
AMY R TILLEY 08/25/2010			

DEPARTMENT OF HEALTH AND HUMA PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRA		R	REQUEST FOR CONSULTATION			
TO (Office/Division): PMHS Roset	nary Addy		FROM (Name, Office/Division, and Phone Number of Requestor): Amy Tilley/OND/DDOP/301-796-3994			
DATE August 10, 2010 IND N).	NDA NO. 22312	TYPE OF DOCUMENT Product Insert	DATE OF DOCUMENT August 5, 2010		
NAME OF DRUG Docetaxel	PRIORITY Priority	CONSIDERATION	CLASSIFICATION OF DRUG 5	DESIRED COMPLETION DATE August 18, 2010		
NAME OF FIRM: Apotex	NAME OF FIRM: Apotex					
	REASON FOR REQUEST I. GENERAL					
□ NEW PROTOCOL □ PRE-NDA MEETING □ PROGRESS REPORT □ END-OF-PHASE 2a MEET □ NEW CORRESPONDENCE □ END-OF-PHASE 2 MEET □ DRUG ADVERTISING □ RESUBMISSION □ ADVERSE REACTION REPORT □ SAFETY / EFFICACY □ MANUFACTURING CHANGE / ADDITION □ PAPER NDA □ MEETING PLANNED BY □ CONTROL SUPPLEMEN			TING			
		II. BION	METRICS			
☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):			☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):			
		III. BIOPHAF	RMACEUTICS			
☐ DISSOLUTION ☐ BIOAVAILABILTY STUDIES ☐ PHASE 4 STUDIES			☐ DEFICIENCY LETTER RESPON ☐ PROTOCOL - BIOPHARMACEU ☐ IN-VIVO WAIVER REQUEST			
		IV. DRUG	G SAFETY			
☐ PHASE 4 SURVEILLANCE/EPIDEN ☐ DRUG USE, e.g., POPULATION EX ☐ CASE REPORTS OF SPECIFIC REA ☐ COMPARATIVE RISK ASSESSMENT	POSURE, ASSO CTIONS (List be	OCIATED DIAGNOSES elow)	☐ REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY ☐ SUMMARY OF ADVERSE EXPERIENCE ☐ POISON RISK ANALYSIS			
		V. SCIENTIFIC I	NVESTIGATIONS			
☐ CLINICAL			□ NONCLINICAL			
COMMENTS / SPECIAL INSTRUCTIONS: DDOP requests PMHS to determine whether the This information is needed prior to our label/team meeting to be held on Thursday, August 19, 2010. A copy of the Product Insert received 8-5-10 and this consult will be emailed to Rosemary Addy						
Rosemary Addy. This request is needed by both DDOP and the 505(b)(2) Coordinating Committee in OND.						
SIGNATURE OF REQUESTOR Amy Tilley {See appended}	electronic	signature page}	METHOD OF DELIVERY (Check one ☐ DFS ☑ EMAIL	e) HAND HAND		
PRINTED NAME AND SIGNATURE OF	RECEIVER		PRINTED NAME AND SIGNATURE	OF DELIVERER		

Application Type/Number	Submission Type/Number	Submitter Name	Product Name			
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML			
This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.						
/s/						
AMY R TILLEY 08/10/2010						

From: Zimmerman, Paul F
To: "kkrishna1@apotex.com";

cc: Tilley, Amy;

Subject: NDA 22-312 I.R.- Micro

Date: Friday, August 06, 2010 2:25:53 PM

Dear Kiran,

As discussed, we have the following request. Please respond as soon as possible. Please send a return email that you received this.

Please provide the following information regarding the amended

protocol titled

"submitted to the agency on 23 July 2010."

- 1. Provide the production cycle parameters to be used for the sterilization of all components and equipment associated with the manufacture of Docetaxel Injection Diluent at the new facility (refer to question 3a of the 14 July 2010 information request).
- 2. Provide the following information regarding the stoppers to be used for Docetaxel Injection Diluent at the new manufacturing facility.
 - a. The source of the stoppers
 - b. The facility at which the

stoppers are to be

c. The procedure and acceptance

criteria for depyrogenation of the stoppers

d. The procedure and acceptance criteria for container closure integrity testing (e.g. microbial or dye ingress testing) of units packaged with the stoppers.

Thanks
Paul for Amy

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
PAUL F ZIMMER			

08/06/2010

Sent: Thursday, July 29, 2010 4:16 PM

To: 'Kiran Krishnan'

Subject: NDA 22312 PED Exclusivity status update - PI Revisions

Importance: High

Follow Up Flag: Follow up

Due By: Monday, August 09, 2010 12:00 AM

Flag Status: Flagged

Kiran,

After conferring with my chief, since it is the sponsor's responsibility to keep up with patent and exclusivity issues, should your proposed labeling need to be revised please resubmit. We will need your revised PI officially by August 6, 2010.

Also include a side by side comparison to the RLD and include a justification for any differences.

Thanks.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA

10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD 20993

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			that was signed on of the electronic
/s/ 			

Sent: Wednesday, July 14, 2010 10:16 AM

To: 'Kiran Krishnan'

Subject: NDA 22312 Docetaxel - Micro Information Request

Importance: High

Kiran,

The Microbiology Reviewer has requested that Apotex address the following product Quality Microbiology Deficiencies related to protocol V-3362:

- Amend the title and objective sections of the comparability protocol to reflect the fact that the proposed change applies to the manufacture of diluent for docetaxel injection.
- 2. Upon successful completion of the studies described in this Comparability Protocol, the applicant should report the implementation of manufacturing in the modified facility by submitting a Special Report [21 CFR 314.81(b)(3)(ii)] to the affected applications. The Special Report should reference this approved Comparability Protocol and indicate that they are implementing manufacturing in the modified facility after completing the validation studies agreed to in the Comparability Protocol. Data need not be provided in the Special Report. Validation data should not be submitted as a changes being effected (CBE) supplement.
- 3. Provide the following information for the sterilization and sterilization/depyrogenation cycles for equipment and components:
 - a. detailed validation and production cycle parameters (time and temperature) (b)(4)
 - b. a commitment to conduct three sequential successful validation cycles for each load or sterilization process
 - c. a list of the types of equipment, components and loads to be sterilized
 - d. a description of the biological indicators to be used (include the population, D-value, source, etc.)
 - e. a list of the number of biological indicators and thermocouples to be used to monitor validation cycles
 - f. a description of the location of biological indicator and thermocouple placement for sterilization validation studies and an explanation of

how the biological indicator and thermocouple placement represents the most difficult to sterilize locations.

- 4. Provide confirmation that media-filled units that are positive for growth following incubation will not be discounted if the container closure system is found to be non-integral. Non-integral units should be removed prior to incubation.
- 5. Provide the following information regarding validation and testing of production filters:
 - a. A detailed summary of the procedure to be used for filter validation testing
 - **b.** The method for determining the post-filtration integrity of the production filters
 - c. Limits for post-filtration integrity testing.
- 6. Provide a detailed description of the environmental monitoring procedures and acceptance criteria to be used at the new facility.

Please respond to these deficiencies as soon as possible so that the Microbiology Reviewer can adequately complete the review of this application.

Regards.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA
10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
AMY R TILLEY 07/14/2010			

Sent: Friday, May 14, 2010 10:54 AM

To: 'kkrishna1@apotex.com'

Subject: RE: NDA 22312 Docetaxel Injection - Information Request

Importance: High

Follow Up Flag: Follow up

Due Bv: Thursday, June 17, 2010 12:00 AM

Flag Status:

Kiran,

On 5/13/10, the Division of Drug Oncology Products approved NDA 020449/supplement 059 Taxotere (docetaxel) Injection (the RLD from Sanofi-Aventis). This label will not be available on our website for a couple of days. Please wait and revise your PI with the label from 5/13/10 (and not the 4/20/10 label) once it appears on our website.

Sorry for any confusion this may have caused you. Also, would you please confirm your receipt of this email.

Kind Regards.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA 10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD

20993

consider the environment before printing this e-mail

From: Tilley, Amy

Thursday, May 13, 2010 11:13 AM Sent:

To: 'kkrishna1@apotex.com'

Subject: NDA 22312 Docetaxel Injection - Information Request

Importance:

Kiran,

Since the RLD of Taxotere from Sanofi Adventist has a recently approved PI from 4/20/10 on our website, please revise your PI for this NDA to match that of the RLD. Submit the revised PI officially to this NDA. Please also send me a courtesy email updating me of the date you will be submitting the revised PI.

Thank you.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA 10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD 20993



Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
AMY R TILLEY 05/17/2010			

Sent: Thursday, May 13, 2010 11:13 AM

To: 'kkrishna1@apotex.com'

Subject: NDA 22312 Docetaxel Injection - Information Request

Importance: High

Follow Up Flag: Follow up

Due By: Thursday, June 17, 2010 12:00 AM

Flag Status: Red

Kiran,

Since the RLD of Taxotere from Sanofi Adventist has a recently approved PI from 4/20/10 on our website, please revise your PI for this NDA to match that of the RLD. Submit the revised PI officially to this NDA. Please also send me a courtesy email updating me of the date you will be submitting the revised PI.

Thank you.

Amy Tilley

Amy Tilley | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA 10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD

10903 New Hampshire Avenue, Room 2177 | Silver Spring, MD 20993

2301.796.3994 (phone) • 301.796.9845 (fax) | ⊠ amy.tilley@fda.hhs.gov

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
AMY R TILLEY			
05/13/2010			

Food and Drug Administration Silver Spring MD 20993

NDA 022312

INFORMATION REQUEST

Apotex Corp.
US Agent for Apotex Inc.
Attention: Kiran Krishnan
Associate Director, Regulatory Affairs
2400 North Commerce Parkway, Suite 400
Weston, FL 33326

Dear Mr. Krishnan:

Please refer to your New Drug Application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL.

We also refer to your March 24, 2010, submission in response to the FDA Complete Response and to your April 23, 2010, submission. We have the following comment and requests for additional information. Please submit your response no later than Friday, April 30, 2010.

- 1. In reference to your April 23, 2010, submission, we note that Apotex Inc., 4100 Weston Road has never been proposed as a site for drug product manufacture or testing. Identify the specific responsibilities for this proposed site.
- 2. Submit a revised appendix for all proposed manufacturing and testing establishments as a continuation to you 356h Form. Include a statement that this information for manufacturing establishments supersedes all previously submitted.

If you have any questions, call Deborah Mesmer, Regulatory Health Project Manager, at 301-796-4023.

Sincerely,

{See appended electronic signature page}

Sarah Pope Miksinski, Ph.D. Branch Chief Division of Pre-Marketing Assessment III Office of New Drug Quality Assessment Center for Drug Evaluation and Research

Application Type/Number	Submission Type/Number	Submitter Name	Product Name			
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML			
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/s/						
Sarah Pope Miksi 04/28/2010	nski					

Food and Drug Administration Silver Spring MD 20993

NDA 022312

INFORMATION REQUEST

Apotex Corp.
US Agent for Apotex Inc.
Attention: Kiran Krishnan
Associate Director, Regulatory Affairs
2400 North Commerce Parkway, Suite 400
Weston, FL 33326

Dear Mr. Krishnan:

Please refer to your New Drug Application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL.

We also refer to your March 24, 2010, submission in response to the FDA Complete Response Letter dated January 29, 2010. We have the following comments and requests for information. Please submit your response no later than Friday, April 23, 2010.

- 1. Identify the specific tests to be performed by

 Include the acceptance testing of drug substance, excipients and packaging components, and the release and stability testing of finished drug product. For each testing facility, identify the analytical methods to be used.
- 2. Identify the test data generated at each of the testing facilities which have been withdrawn from the application since the original submission. Include material acceptance, product release and stability testing.

If you have any questions, call Deborah Mesmer, Regulatory Health Project Manager, at 301-796-4023.

Sincerely,

{See appended electronic signature page}

Sarah Pope Miksinski, Ph.D. Branch Chief Division of Pre-Marketing Assessment III Office of New Drug Quality Assessment Center for Drug Evaluation and Research

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
Sarah Pope Miksi 04/21/2010	nski		

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION			EQUEST FOR	CONSU	JLTATION	
TO (Office/Division): David Hussong/Jim McVey/Sylvia Gantt NEW DRUG MICROBIOLOGY STAFF OC/OO/CDER/OPS/NDMS - HFD-805		FROM (Name, Office/Division, and Phone Number of Requestor): Liang Zhou through Debbie Mesmer, Office of New Drug Quality Assessment, 301 796-4023				
DATE April 20, 2010	IND NO.		NDA NO. 022312	TYPE OF DOCUMENT NDA- class 2 resubmission		DATE OF DOCUMENT March 24, 2010
NAME OF DRUG Docetaxel Injection				CLASSIFICATION OF I oncology	DRUG	DESIRED COMPLETION DATE June 24, 2010
NAME OF FIRM: Apotex 1	Inc					
				OR REQUEST		
			I. GEN	NERAL		
□ NEW PROTOCOL □ PRE-NDA MEETING □ RESPONSE TO DEFICIENCY LETTER □ PROGRESS REPORT □ END-OF-PHASE 2a MEETING □ FINAL PRINTED LABELING □ NEW CORRESPONDENCE □ END-OF-PHASE 2 MEETING □ LABELING REVISION □ DRUG ADVERTISING □ RESUBMISSION □ ORIGINAL NEW CORRESPONDENCE □ ADVERSE REACTION REPORT □ SAFETY / EFFICACY □ FORMULATIVE REVIEW □ MANUFACTURING CHANGE / ADDITION □ PAPER NDA □ OTHER (SPECIFY BELOW): □ MEETING PLANNED BY □ CONTROL SUPPLEMENT					NTED LABELING GREVISION . NEW CORRESPONDENCE .TIVE REVIEW	
			II. BIOM	IETRICS		
☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):				☐ CHEMISTRY REVII☐ PHARMACOLOGY☐ BIOPHARMACEUT☐ OTHER (SPECIFY I	TICS	
	III. BIOPHARMACEUTICS					
☐ DISSOLUTION☐ BIOAVAILABILTY STUD☐ PHASE 4 STUDIES	IES			DEFICIENCY LETT PROTOCOL - BIOP IN-VIVO WAIVER	HARMACEUTI	
			IV. DRUG	SAFETY		
☐ PHASE 4 SURVEILLANCE ☐ DRUG USE, e.g., POPULA' ☐ CASE REPORTS OF SPEC ☐ COMPARATIVE RISK AS:	TION EXPO	SURE, ASSO IONS (List be	CIATED DIAGNOSES elow)	☐ REVIEW OF MARK☐ SUMMARY OF AD☐ POISON RISK ANA	VERSE EXPER	RIENCE, DRUG USE AND SAFETY IENCE
			V. SCIENTIFIC II	NVESTIGATIONS		
☐ CLINICAL				☐ NONCLINICAL		
COMMENTS / SPECIAL INS resubmitted NDA 223		-	•	ū	٠.	review of Apotex Inc's ission.
Link to application: \\	CDSESU	JB1\EVS	PROD\NDA02231	2\022312.enx		
Amy Tilley is the ON	Josephine Jee is the primary CMC reviewer. (Liang Zhou is the PAL.) Amy Tilley is the OND RPM					
Debbie Mesmer is the	ONDQ	A RPM				
Please notify Debbie	Mesmer	of the ass	igned reviewer. The	hank you.		
SIGNATURE OF REQUESTOR	R			METHOD OF DELIVER	Y (Check one)	

{See appended electronic signature page}	⊠ DFS	⊠ EMAIL	MAIL	HAND
PRINTED NAME AND SIGNATURE OF RECEIVER	PRINTED NAI	ME AND SIGNATUI	RE OF DELIVERER	

Application Type/Number	Submission Type/Number	Submitter Name	Product Name		
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML		
			d that was signed on of the electronic		
/s/					
DEBORAH M ME 04/20/2010	SMER				
LIANG ZHOU 04/21/2010					

Memorandum

To: NDA 22-312

CC: Haripada Sarker, Ph.D., Josephine Jee

From: Sarah Pope Miksinski, Ph.D.

Date: 1/27/2010

Re: Final CMC recommendation for NDA 22-312

NDA 22-312 (Docetaxel Injection) was initially submitted as a 505(b)(2) application on 28-MAR-2008 and was granted a standard review by the Agency. Chemistry Review #1 (dated 23-APR-2009) identified several Chemistry, Manufacturing and Controls (CMC) deficiencies which were conveyed in the 28-APR-2009 action letter. The Applicant responded via a complete response submission dated 29-JUL-2009.

The 29-JUL-2009 submission was reviewed in its entirety (see Chemistry Review #2 dated 22-JAN-2010). Container/carton labels were also reviewed by the Division of Medication Errors Prevention and Analysis (DMEPA, see review finalized on 27-JAN-2010). Several DMEPA-generated comments appear to contradict the CMC reviewer's recommendations (see Chemistry Review #2). Internal discussion was not possible due to the timing of the review. Therefore, due to the pending action date for this submission, as well as the recommended "Complete Response" action for the submission, CMC recommends that all container/carton and PI labeling deficiencies be deferred during this review cycle. This recommendation was made in consultation with the clinical division.

Labeling deficiencies captured in both reviews will need to be revisited during a subsequent review cycle and prior to approval of this NDA.

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			

Food and Drug Administration Silver Spring MD 20993

NDA 022312

ACKNOWLEDGE CLASS 2 RESPONSE

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, FL 33326

Attention: Kiran Krishnan

Associate Director, Regulatory Affairs

Dear Mr. Krishnan:

We acknowledge receipt on July 29, 2009, of your July 29, 2009, resubmission to your new drug application for Docetaxel Injection 40 mg/mL (20 mg/0.5 mL and 80 mg/2 mL).

We consider this a complete, class 2 response to our April 28, 2009, action letter. Therefore, the user fee goal date is January 29, 2010.

If you have any questions, call Christy Cottrell, Regulatory Project Manager, at (301) 796-4256.

Sincerely,

{See appended electronic signature page}

Christy Cottrell
Regulatory Project Manager
Division of Drug Oncology Products
Office of Oncology Drug Products
Center for Drug Evaluation and Research

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/ 			
CHRISTY L COT 01/21/2010	TRELL		

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADM NISTRATION				REQUEST FOR CONSU	LTATION	
TO (Division/Office): Mail: OSE/DMEPA Attention: Sandra Griffiths				FROM: Division of Drug Oncology Products, Christy Cottrell, RPM	HFD-150	
DATE October 8, 2009	IND NO.		NDA NO. 22-312	TYPE OF DOCUMENT Class 2 Resubmission	DATE OF DOCUMENT July 29, 2009	
NAME OF DRUG Docetaxel Injection		PRIORITY C	ONSIDERATION	CLASSIFICATION OF DRUG DESIRED COMPLETION DATE December 8, 2009		
NAME OF FIRM: Apotex, Inc.						
			REASON FO	DR REQUEST		
			I. GEN	NERAL		
□ NEW PROTOCOL □ PRENDA MEETING □ PROGRESS REPORT □ END OF PHASE II MEETING □ NEW CORRESPONDENCE □ RESUBMISSION □ DRUG ADVERTISING □ SAFETY/EFFICACY □ ADVERSE REACTION REPORT □ PAPER NDA □ MANUFACTURING CHANGE/ADDITION □ CONTROL SUPPLEMENT □ MEETING PLANNED BY			END OF PHASE II MEETING RESUBMISSION SAFETY/EFFICACY PAPER NDA	☐ FINAL PRINT ✓ LABELING RE	EVISION EW CORRESPONDENCE /E REVIEW	
			II. BION	METRICS		
STATISTICAL EVALUATION BRAN	СН			STATISTICAL APPLICATION BRANCH		
☐ TYPE A OR B NDA REVIEW ☐ END OF PHASE II MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):				☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):		
,			III. BIOPHAR	RMACEUTICS		
☐ DISSOLUTION☐ BIOAVAILABILTY STUDIES☐ PHASE IV STUDIES				☐ DEFICIENCY LETTER RESPONSE☐ PROTOCOL-BIOPHARMACEUTICS☐ IN-VIVO WAIVER REQUEST		
			IV. DRUG E	XPERIENCE		
☐ PHASE IV SURVEILLANCE/EPI☐ DRUG USE e.g. POPULATION☐ CASE REPORTS OF SPECIFIC☐ COMPARATIVE RISK ASSESS	EXPOSURE, A REACTIONS	ASSOCIATED [(List below)		☐ REVIEW OF MARKETING EXPERIENCE☐ SUMMARY OF ADVERSE EXPERIENCE☐ POISON RISK ANALYSIS		
			V. SCIENTIFIC II	nvestigations		
☐ CLINICAL				□ PRECLINICAL		
addressed DMEPA's comme PDUFA date is January 29, 2 Prior DMEPA reviewers were	COMMENTS/SPECIAL INSTRUCTIONS: Please review the resubmitted Carton and Container labeling to determine whether the sponsor has adequately addressed DMEPA's comments from the prior review cycle. The submission can be found in GlobalSubmit Review under sdn 011 dated July 29, 2009. PDUFA date is January 29, 2010. Target action date is January 15, 2010. Request completed DMEPA review by December 8, 2009. Prior DMEPA reviewers were: Loretta Holmes, Kristina Arnwine For questions, please contact Christy Cottrell at 6-4256.					
SIGNATURE OF REQUESTER Christy Cottrell				METHOD OF DELIVERY (Check one) ✓ DARRTS	☐ HAND	
SIGNATURE OF RECEIVER				SIGNATURE OF DELIVERER		

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
			d that was signed on of the electronic
/s/			
CHRISTY L COT 10/08/2009	ΓRELL		

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION			EQUEST FO	R CONSU	JLTATION	
TO (Office/Division): David Hussong/Jim McVey/Sylvia Gantt NEW DRUG MICROBIOLOGY STAFF OC/OO/CDER/OPS/NDMS - HFD-805				Debbie Mes	me Number of Requestor): Haripada smer, Office of New Drug 96-4023	
DATE September 2, 2009	IND NO.		NDA NO. 22-312	TYPE OF DOCUMENT 505(b)(2) NDA resubmission	Γ	Date of DOCUMENT Dated 7/29/09; received 7/30/09
NAME OF DRUG Docetaxel Injection				CLASSIFICATION OF	DRUG	DESIRED COMPLETION DATE PDUFA date: January 29, 2010
NAME OF FIRM: Apotex						
			REASON FO	R REQUEST		
			I. GEN	ERAL		
□ NEW PROTOCOL □ PRE-NDA MEETING □ PROGRESS REPORT □ END-OF-PHASE 2a ME □ NEW CORRESPONDENCE □ END-OF-PHASE 2 MED □ DRUG ADVERTISING □ RESUBMISSION □ ADVERSE REACTION REPORT □ SAFETY / EFFICACY □ MANUFACTURING CHANGE / ADDITION □ PAPER NDA □ MEETING PLANNED BY □ CONTROL SUPPLEME				TING	☐ FINAL PRI☐ LABELING☐ ORIGINAL☐ FORMULA	E TO DEFICIENCY LETTER NTED LABELING G REVISION NEW CORRESPONDENCE TIVE REVIEW PECIFY BELOW):
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☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):				☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):		
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☐ DISSOLUTION☐ BIOAVAILABILTY STUD☐ PHASE 4 STUDIES	IES			DEFICIENCY LET PROTOCOL - BIO IN-VIVO WAIVER	PHARMACEUT	
			IV. DRUG	SAFETY		
☐ PHASE 4 SURVEILLANCI☐ DRUG USE, e.g., POPULA☐ CASE REPORTS OF SPEC☐ COMPARATIVE RISK AS	TION EXPO IFIC REACT	SURE, ASSO TONS (List be	CIATED DIAGNOSES elow)	REVIEW OF MAR SUMMARY OF AI POISON RISK AN	OVERSE EXPER	RIENCE, DRUG USE AND SAFETY IENCE
			V. SCIENTIFIC II	NVESTIGATIONS		
☐ CLINICAL				□ NONCLINICAL		
COMMENTS / SPECIAL INSTRUCTIONS: ONDQA/DDOP is requesting to have a microbiology review of Apotex's resubmitted NDA 22-312 for Docetaxel injection for multiple proposed oncology indications. Link to application: \CDSESUB1\EVSPROD\NDA022312\022312.enx Josephine Jee is the primary CMC reviewer. (Haripada Sarker, PAL) Qin Ryan is the medical reviewer Christy Cottrell is the OND RPM Debbie Mesmer is the ONDQA RPM						
SIGNATURE OF REQUESTOR	<u> </u>			METHOD OF DELIVE ☑ DFS ☑ E		☐ MAIL ☐ HAND

{See appended electronic signature page}	
PRINTED NAME AND SIGNATURE OF RECEIVER	PRINTED NAME AND SIGNATURE OF DELIVERER

Application Type/Number	Submission Type/Number	Submitter Name	Product Name
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML
NDA-22312	ORIG-1		DOCETAXEL INJECTION 40 MG ML

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/s/

DEBORAH M MESMER 09/02/2009

HARIPADA SARKER 09/03/2009 From: Cottrell, Christy L.

Sent: Tuesday, August 11, 2009 10:53 AM

To: 'Kiran Krishnan'

Subject: NDA 22-312 for Docetaxel Injection: Request for Information

Importance: High

Mr. Krishnan,

Please refer to your July 29, 2009, response to the April 28, 2009, Complete Response letter for NDA 22-312 (Docetaxel Injection). As requested by the nonclinical reviewer, please provide the following references mentioned on page 5 of 10 of your cover letter or direct us to their location in the submission.

References:

1. Farina, Vittorio (editor) The Chemistry and Pharmacology of Taxol and Its Derivatives, Pharmaco

Chemistry Library Volume 22, Amsterdam, Elsevir, 1995

- 2. Kingston, D.G.I. Pharmacol. Ther. 1991, 52, 1.
- 3. Vuilhorgne, M; Gaillard, C; Sanderink, G. J; Monsarrat, B; Dubois. J; Wright, M; Royer, I. 207th Amer.Chem.Soc.Meeting, 1994;San Diego (abstract)
- 4. Ringel, I; Horwitz, S.B. J.Pharmacol. Exp. Ther. 1987

Feel free to contact me if you have any questions.

Regards, Christy Cottrell

Christy Cottrell | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA 10903 New Hampshire Avenue, Room 2122 | Silver Spring, MD 20993

2301.796.4256 (phone) • 301.796.9845 (fax) | ✓ christy.cottrell@fda.hhs.gov



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/s/ 	
CHRISTY L COTTRELL 08/11/2009	

Memorandum

To: NDA 22-312

CC: Haripada Sarker, Ph.D., Sharmista Chatterjee, Ph.D., Rik Lostritto, Ph.D.

From: Sarah C. Pope, Ph.D.

Date: 4/28/2009

Re: Final CMC recommendation for NDA 22-312

NDA 22-312 (Docetaxel Injection) was initially submitted as a 505(b)(2) application on 28-MAR-2008 and was granted a standard review by the Agency. Chemistry Review #1 (dated 23-APR-2009) identified several Chemistry, Manufacturing and Controls (CMC) deficiencies which should be conveyed in the action letter. Of particular note is the cross-referenced Type II Drug Master File (DMF) (b) (4), which was reviewed on 22-APR-2009 and was determined to be inadequate in support of this NDA. While DMF (b) (4) is not mentioned in the overall CMC Recommendation and Conclusion of Approvability (see page 8 of the CMC review for NDA 22-312), the DMF's current deficient status should also be conveyed in the action letter. The deficient status for DMF (b) (4) is captured in the DMF table located on page 6 of the CMC review document.

Resolution of these CMC deficiencies is necessary prior to a CMC recommendation for approval of NDA 22-312. Additionally, at the time of finalization of the 23-APR-2009 CMC review, an overall recommendation from the Office of Compliance had not been received.

This memo serves to update that determination. The Office of Compliance issued an overall withhold recommendation for this application on 27-APR-2009. Accordingly, from a CMC perspective, approval of NDA 22-312 cannot be recommended until the outstanding CMC and compliance deficiencies are adequately resolved.

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/s/

Sarah Pope 4/28/2009 02:00:31 PM CHEMIST From: Cottrell, Christy L.

Sent: Monday, April 13, 2009 2:52 PM

To: 'Robin Windover'

Cc: Kiran Krishnan; Bernice Tao

Subject: NDA 22-312 for Docetaxel Injection: Labeling: Response requested

Importance: High Kiran and team,

We have reviewed your proposed labeling revisions and have accepted them. We have made a couple of minor edits and have a clarification request for Table 3 (see Tracked Changes in the attached document). Please provide your response to these edits and clarification request by Friday, April 17, 2009.

In addition, we have the following comments and recommendations pertaining to the carton and container labels:

The labels and labeling of Taxotere Injection Concentrate (the RLD) have undergone several revisions over the years in order to address medication error reports concerning drug preparation errors. These errors were due to confusing presentation of the active drug concentration and volume, diluent volume, and instructions for preparation. We believe the current Taxotere labels/labeling are better designed as a result of the revisions they have undergone. Having the proposed Docetaxel Injection (6) (4) reflect those changes in specific areas will also make for better designed labels/labeling of Docetaxel Injection as well. Therefore, we have the following recommendations.

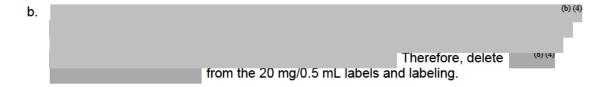
A. General Comment for the all Container Labels and the Carton Labeling

The by decreasing its size. Alternatively, delete by decrease the prominence by decreasing its size.

B. Container Labels

1. Active Drug

a. The "Caution" statement does not contain instructions for the two dilution step process or state the drug concentration obtained after the initial dilution step. Delete the current caution statement wording (i.e., "See package insert...") and provide instructions for the two dilution step process and state the drug concentration obtained after the initial dilution step (i.e., use the same caution statement that is on the carton labeling). Replace the bolded text with a contrasting colored bold font. Additionally, box the caution statement if possible, and/or increase the font size of "10 mg/mL".



c. The statement of strength [80 mg/2 mL (40 mg/mL)] is not presented in accordance with USP recommendations for the labeling of injectable drug products. According to the USP recommendations: "For single dose and multiple-dose injectable drug products, the strength per total volume should be the primary and prominent expression on the principal display panel of the label, followed in close proximity by strength per mL enclosed by parentheses."

The following is the recommended presentation: position the drug concentration (40 mg/mL) immediately beneath the total drug content statement (80 mg/2 mL) and decrease its size so that it has less prominence (see example below).

2. Diluent

a.	The diluent labels contain the Docetaxel Injection	(b) (4) statement	(b) (4)
	that draws attention to that section of the labe	el. This is confusing a	
	the diluent to be mistaken as the active drug. Delete the D	ocetaxel Injection	(b) (4)
		Revise the stateme	nt to "Diluent
	for Docetaxel Injection (b) (4) 20 mg" (state the app	ropriate strength acco	ordingly), or
	similar verbiage, to identify the diluent. Continue to ensure prominent word on the label.	e that the word "Dilue	nt" is the most

b. The "Caution" statement on the Docetaxel Injection diluent labels does not give instructions for how to use the diluent. Delete the current caution statement wording (i.e., "See package insert...") and provide specific instructions for use of the diluent on the principal display panel, specifically highlighting the quantity to be used for dilution.

C. Carton Labeling

- 1. See Comments B-1-b and B-1-c, above, that concern the statements of strength.
- 2. The Caution statement on the side panel contains words printed in bold black font (i.e., "Caution", "entire", "10 mg/mL", and "10 mg/mL docetaxel after initial dilution") that lack sufficient contrast with the surrounding text. Highlight these bolded words using a different color (e.g., red, like Taxotere) in order to provide more prominence and emphasis. Additionally, box the caution statement and/or increase the font size of "10 mg/mL".
- 3. Position the statement "Before Initial Dilution" below the statement of strength. Additionally, place an asterisk next to the statement and place the accompanying notation (that directs practitioners to the caution statement for information on the concentration that results after the initial dilution step) immediately below it. See the following example:

Please note that all labeling negotiations are considered preliminary until an action has occurred. Agreement on labeling does not necessarily predict the type of action letter you will receive.

Feel free to contact me if you have any questions.

Regards, Christy



consider the environment before printing this e-mail

From: Robin Windover [mailto:rwindove@apotex.com]

Sent: Thursday, March 05, 2009 1:48 PM

To: Cottrell, Christy L.

Cc: Kiran Krishnan; Bernice Tao

Subject: URGENT- Please respond: NDA 22-312 for Docetaxel Injection

Hello Christy,

Further to your email request below we are providing our labeling using the track changes functions.

All of your initial track changes have been accepted, with the following exceptions:

1. Indications for Gastric Adenocarcinoma (GC) and Squamous Cell Carcinoma of the Head and Neck Cancer (SCCHN) have been retained in the labeling, along with the corresponding information for dosage, studies, etc. in other sections. Track changes have been added (in red) for your acceptance.

We propose to retain this information in our labeling to be inline with our Patent and Exclusivity Statements (as per section 1.3.5.2 of the NDA).

In addition to the above, Section 6 (Adverse Reactions) Tables 10 - 12 have been rounded up to whole numbers to be consistent with other tables in that section (in-line with your initial track changes request for other tables).

All sections have been renumbered as appropriate to incorporate the above information (this is visible through track changes).

If you have any questions, please feel free to contact us.

Regards, **Robin Windover** Manager Regulatory Affairs - Richmond Hill

Tel: (905) 508-2364 Fax: (905) 508-2359

See our products online at www.apotex.com

From: Cottrell, Christy L. [mailto:Christy.Cottrell@fda.hhs.gov]

Sent: Friday, February 20, 2009 11:13 AM

To: Kiran Krishnan

Subject: URGENT- Please respond: NDA 22-312 for Docetaxel Injection

Importance: High

Kiran,

Please refer to your NDA 22-312 for Docetaxel Injection. Attached are the Agency's initial labeling edits. Please review. We ask that you accept all the changes in the document, then use the Track Changes function to identify your proposals for further edits. Please provide your updated labeling by noon on Thursday, 2/26/09.

We have another internal labeling meeting scheduled for Friday, 2/27, during which we will discuss our CMC edits and any proposed revisions that you will have sent to us next Thursday based on the labeling I am sharing with you today. We would like members of the Apotex team to be available for a brief teleconference following our internal meeting next Friday. If possible, we would like to be able to call you around 10:30am EST to discuss any labeling concerns and/or outstanding issues. Please let me know if this works for your team. If not, we'll arrange another time during the following week.

Can you provide an update on the status of the User Fee payment? Also, we are still waiting for a response to our December and January CMC Information Requests. Our reviews cannot be finalized without these responses, and given that we are expediting our reviews to try to wrap up by the end of March, we need these responses ASAP. Please let me know when we can expect to receive them. I am attaching the requests again to this email for your reference.

If you have any questions, feel free to call me.

Regards, Christy

<<2-20-09 FDA revised Docetaxel labeling to sponsor.doc>> <<CMC request for information.pdf>> <<1-15-09 CMC Info Request.pdf>>

Christy Cottrell | Regulatory Project Manager | Division of Drug Oncology Products, CDER, FDA 10903 New Hampshire Avenue, Room 2466 | Silver Spring, MD 20993





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/s/

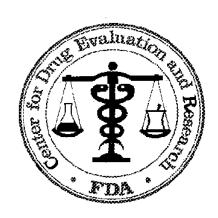
Christy Cottrell

4/13/2009 02:54:26 PM



FOOD AND DRUG ADMINISTRATION DIVISION OF DRUG ONCOLOGY PRODUCTS

5901-B Ammendale Road, Beltsville, MD 20705-1266 10903 New Hampshire Avenue, Building #22, Silver Spring, MD 20993



To:	Kiran Krishnan	From: Christy Cottrell
Fax:	(954) 349-4233	Fax: (301) 796-9845
Phone	e: (954) 384-3986	Phone: (301) 796-4256
Pages	, including cover sheet: 2	Date: February 12, 2009

Re: NDA 22-312 for Docetaxel Injection (Apotex, Inc.)

THIS DOCUMENT IS INTENDED ONLY FOR THE USE OF THE PARTY TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND PROTECTED FROM DISCLOSURE UNDER APPLICABLE LAW. If you are not the addressee, or a person authorized to deliver the document to the addressee, you are hereby notified that any review, disclosure, dissemination or other action based on the content of the communication is not authorized. If you have received this document in error, please immediately notify us by telephone and return it to us at the above address by mail. Thank you.

Mr. Krishnan,

Please refer to Apotex's pending application (NDA 22-312) for Docetaxel Injection. As discussed during our telephone conversation today, our User Fee Staff has brought to our attention that a User Fee should have been paid for this application. Under PDUFA 3, 505(b)(2) applications were exempt from User Fees, however, under PDUFA 4, which became effective in October 2007, all new applications, including 505(b)(2) applications, are required to pay a fee. If new clinical data needs to be reviewed, then a full fee is paid. In your case, however, no new clinical information is being reviewed, therefore, only a half fee is required. We ask that you submit a fee in the amount of \$589,000 as soon as possible. Please notify me once your payment has been made. If you have any questions concerning this request, contact Mike Jones at (301) 796-3464.

In addition, our microbiology reviewer has identified a deficiency that must be addressed as soon as possible. See below for details.

Data should be provided to demonstrate that the initial diluted solution will not support
microbial growth during the proposed storage period (refrigerated or at room temperature
for 8 hours). Please provide a risk assessment summarizing studies that show
adventitious microbial contamination does not grow under the storage conditions.
Reference is made to Guidance for Industry: ICH Q8 Pharmaceutical Development,
Section II.E and Guidance for Industry: ICH Q1A(R2) Stability Testing of New Drug
Substances and Products, Section 2.2.7. http://www.ich.org/cache/compo/276-254-1.html

NDA 22-312 Page 2

• Generally, "no growth" is interpreted as not more than a 0.5 log₁₀ increase from the initial count, however other evidence of growth may be significant. The test should be run at the label's recommended storage conditions, be conducted for 2 to 3-times the label's recommended storage period, and use the label-recommended fluids. Challenge organisms may include strains described in USP <51> plus typical skin flora or species associated with hospital-borne infections. In lieu of these data, the product labeling should recommend that the post-constitution storage period is not more than 4 hours at room temperature.

Finally, we remind you of the outstanding CMC request for information dated January 14, 2009. Please notify me of the anticipated date for submission of your response to that inquiry, as well as the microbiology deficiency above. Submit responses as an amendment to NDA 22-312. If you have any questions, feel free to call me at (301) 796-4256.

Thanks,

Christy Cottrell

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/s/

Christy Cottrell 2/12/2009 12:25:54 PM

CSO



DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration Rockville, MD 20857

NDA 22-312

INFORMATION REQUEST LETTER

in the drug product.

to match with observed release

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, FL 33326

Attention: Kiran Krishnan

Associate Director, Regulatory Affairs

Dear Mr. Krishnan:

are in place to

and stability data.

Furthermore, tighten the specification

Please refer to your March 27, 2008, new drug application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for docetaxel injection, 40 mg/mL.

We also refer to your submissions dated September 17, and December 3, 2008.

We are reviewing the Chemistry, Manufacturing and Controls section of your submission and have the following comments and information requests. We request a prompt written response in order to continue our evaluation of your NDA.

1.	The approach is considered unacceptable. Propose the same set of specification for both release as well as for stability, for both injection concentrate, diluent as well as the initial and final dilutions.
2.	Clarify the discrepancy about the impurity identified for the injection concentrate at RRT [b)(4) In the original submission this impurity was listed as [b)(4) however in the amendments dated September 17 and December 3, 2008, this impurity is listed as [b)(4) It is to be noted that separate impurities, and these two are monitored independently.
3.	Comment on your plans to scale up to meet commercial requirements.
4.	In the December 3, 2008, amendment, you indicated that the reason for Indicate if any processes

If you have any questions, call Christy Cottrell, Consumer Safety Officer, at (301) 796-4256.

Sincerely,

Richard Lostritto, Ph.D.
Director
Office of New Drug Quality Assessment,
Division III
Center for Drug Evaluation and Research

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/s/

-----Pichard Lostritto

Richard Lostritto 1/14/2009 01:40:27 PM

DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration Rockville, MD 20857

NDA 22-312

INFORMATION REQUEST LETTER

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, FL 33326

Attention: Kiran Krishnan

Associate Director, Regulatory Affairs

Dear Mr. Krishnan:

Please refer to your March 27, 2008, new drug application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for docetaxel injection, 40 mg/mL.

We also refer to your submission dated December 3, 2008.

We are reviewing the Chemistry, Manufacturing and Controls section of your submission and have the following comments and information requests. We request a prompt written response in order to continue our evaluation of your NDA.

As proposed in the amendment dated December 3, 2008, your proposal is considered unacceptable, since these tests are critical as in-process controls that help to assure overall batch quality.

If you have any questions, call Christy Cottrell, Consumer Safety Officer, at (301) 796-4256.

Sincerely,

Sarah C. Pope, Ph.D. Branch Chief (Acting) Division of Pre-Marketing Assessment III Office of New Drug Quality Assessment Center for Drug Evaluation and Research

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Sarah Pope

1/21/2009 12:55:12 PM

Food and Drug Administration Rockville, MD 20857

NDA 22-312

Apotex, Inc. c/o Apotex Corporation 2400 North Commerce Parkway, Suite 400 Weston, FL 33326

Attention: Kiran Krishnan

Associate Director, Regulatory Affairs

Dear Mr. Krishnan:

Please refer to your March 27, 2008, new drug application (NDA) submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for docetaxel injection, 40 mg/mL.

On December 3, 2008, we received your December 3, 2008, major amendment to this application. The receipt date is within 3 months of the user fee goal date. Therefore, we are extending the goal date by three months to provide time for a full review of the submission. The extended user fee goal date is April 28, 2009.

If you have any questions, call me at (301) 796-4256.

Sincerely,

{See appended electronic signature page}

Christy Cottrell
Consumer Safety Officer
Division of Drug Oncology Products
Office of Oncology Drug Products
Center for Drug Evaluation and Research

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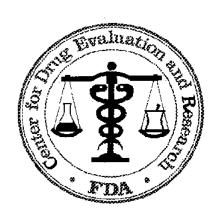
/s/

Christy Cottrell 12/29/2008 11:03:53 AM



FOOD AND DRUG ADMINISTRATION DIVISION OF DRUG ONCOLOGY PRODUCTS

5901-B Ammendale Road, Beltsville, MD 20705-1266 10903 New Hampshire Avenue, Building #22, Silver Spring, MD 20993



To:	Kiran Krishnan	From: Christy Cottrell
Fax:	(954) 349-4233	Fax: (301) 796-9845
Phone: (954) 384-3986		Phone: (301) 796-4256
Pages	s, including cover sheet: 2	Date: December 16, 2008

Re: NDA 22-312 for Docetaxel Injection (Apotex, Inc.)

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Mr. Krishnan,

Please refer to Apotex's pending application (NDA 22-312) for Docetaxel Injection. See below for a request for information from the CMC reviewer.

- 1. Provide a summary of the methods and results of container closure integrity testing on the packaging systems subjected to the same sterilization, filling, and packaging parameters proposed for the docetaxel concentrate and diluent solutions.
- 2. Address the following microbiology deficiencies regarding the environmental monitoring procedures used at the Weston and Richmond Hill facilities:
 - a) Provide a description of the culture medium and incubation parameters to be used for water testing.
 - b) Provide the culture medium and incubation parameters for and a justification for the high limit when submission batches showed no growth.
 - c) Provide the sampling locations (e.g. gloves, arm, chest) used for personnel monitoring at the Weston facility.

d) Incubation of environmental monitoring samples at 30-35°C for 48 hours may not be sufficient to detect slower growing bacteria and fungi. Please provide data justifying these incubation parameters or consider an additional incubation period at a lower temperature.

3.	Address the following microbiology deficiencies	:	
		(b) (4	4)
l .	Provide the following information regarding (b)	(4)	

a) A description of the manufacturing equipment to be sterilized

at the Weston manufacturing facility:

- b) Diagrams of loading patterns
- The sterilization validation study parameters and summaries of the validation study results

Please submit your response as an amendment to NDA 22-312. Your response should be provided as soon as possible, but no later than January 9, 2009. If you have any questions, feel free to call me at (301) 796-4256.

Thanks, Christy Cottrell This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Christy Cottrell 12/16/2008 03:49:24 PM CSO



DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration Rockville, MD 20857

NDA 22-312

Apotex Corp.
US Agent for Apotex Inc.
Attention: Kiran Krishnan
Associate Director, Regulatory Affairs
2400 North Commerce Parkway, Suite 400
Weston, FL 33326

Dear Mr. Krishnan:

Please refer to your new drug application (NDA) dated March 27, 2008, received March 28, 2008, submitted under section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL.

We also refer to your submission dated September 17, 2008.

We are reviewing the Chemistry, Manufacturing and Controls section of your submissions and have the following request for information. We request a prompt written response in order to continue our evaluation of your NDA.

specifications. Also, provide	• • • • • • • • • • • • • • • • • • • •	acceptance criteria for
impurities in drug product du	ring release versus during stability	
submission and in the amenda	nent dated September 17, 2008.	(b) (4)
	specifications. Also, provide impurities in drug product du	Tighten the proposed acceptance criteria for drug product impurspecifications. Also, provide impurities in drug product during release versus during stability submission and in the amendment dated September 17, 2008.

- 2) Clarify the following regarding the stability amendment dated September 17, 2008:
 - a) It is noted that the rate in the total impurity level is Provide justification.
 - b) Provide a reason for occurrence of for all strengths and all stability configurations.
 - c) Clarify why data for the degradant eluting at RRT is not provided in the amendment dated September 17, 2008. Data for this degradant was provided in the original submission.

- 3) Provide the USAN, the IUPAC name, and the CAS registry number for the drug substance.
- 4) Clarify whether testing for polysorbate 80 and for the acidity of PEG 300 are proposed to be conducted during commercial manufacture. If not, justify.
- 5) Clarify if the vials are for single-use or multiple-use. If the vials are intended for multiple-use, confirm if an antimicrobial agent is used.
- 6) Confirm if any of the API.
- 7) In view of potential interaction of the formulation with the specialized syringes are needed for transfer of the initial dilution into the infusion bags.
- 8) There is the some of the 20mg/0.5mL that is packaged in 5mL vials, versus the 80mg/2.0mL that is packaged in 10mL vials. Confirm if this would have any bearing on the stability of the packaged solution.

If you have any questions, call Deborah Mesmer, Regulatory Health Project Manager, at 301-796-4023.

Sincerely,

{See appended electronic signature page}

Sarah C. Pope, Ph.D.
Branch Chief (Acting)
Division of Pre-Marketing Assessment III
Office of New Drug Quality Assessment
Center for Drug Evaluation and Research

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Sarah Pope

9/24/2008 04:00:47 PM



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration Rockville, MD 20857

FILING COMMUNICATION

NDA 022312/S-000

Apotex Inc.

Attention: Kiran Krishnan, Associate Director, Regulatory Affairs 2400 North Commerce Parkway, Suite 400 Weston, Florida 33326

Dear Kiran Krishnan:

Please refer to your March 28, 2008 supplemental new drug application submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Docetaxel Injection, 40 mg/mL (20mg/0.5 mL and 80 mg/2 mL).

We have completed our filing review and have determined that your application is sufficiently complete to permit a substantive review. Therefore, this application is considered filed 60 days after the date we received your application in accordance with 21 CFR 314.101(a). The review classification for this application is Standard. Therefore, the user fee goal date is January 28, 2009.

At this time, we have not identified any potential filing review issues. Our filing review is only a preliminary evaluation of the application and is not indicative of deficiencies that may be identified during our review.

If you have any questions, call Dillard Woody, Regulatory Project Manager, at (301) 796-4097.

Sincerely,

{See appended electronic signature page}

Alice Kacuba, RN, MSN, RAC Acting Chief, Project Management Staff Division of Drug Oncology Products Office of Oncology Drug Products Center for Drug Evaluation and Research

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Alice Kacuba 6/25/2008 12:44:24 PM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION		R	REQUEST FO	R CONSU	ULTATION	
TO (Office/Division): OSE Consults			FROM (Name, Office/Division, and Phone Number of Requestor): Alice Kacuba			
DATE June 3, 2008	IND NO.		NDA NO. 22-312	TYPE OF DOCUMENT New NDA	Γ	DATE OF DOCUMENT march 27, 2008
NAME OF DRUG Docetaxel Injection		PRIORITY Priority	CONSIDERATION	CLASSIFICATION OF DRUG Oncology		DESIRED COMPLETION DATE November 24, 2008 pdufa date=1-19-09
NAME OF FIRM: Apotex						
			REASON FO	R REQUEST		
			I. GEN	NERAL		
□ NEW PROTOCOL □ PRE-NDA MEETING □ PROGRESS REPORT □ END-OF-PHASE 2a ME □ NEW CORRESPONDENCE □ END-OF-PHASE 2 MEE □ DRUG ADVERTISING □ RESUBMISSION □ ADVERSE REACTION REPORT □ SAFETY / EFFICACY □ MANUFACTURING CHANGE / ADDITION □ PAPER NDA □ MEETING PLANNED BY □ CONTROL SUPPLEMENT			TING			
II. BIOMETRICS						
☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):			☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):			
III. BIOPHARMACEUTICS						
☐ DISSOLUTION ☐ BIOAVAILABILTY STUDIES ☐ PHASE 4 STUDIES			☐ DEFICIENCY LETTER RESPONSE ☐ PROTOCOL - BIOPHARMACEUTICS ☐ IN-VIVO WAIVER REQUEST			
IV. DRUG SAFETY						
 □ PHASE 4 SURVEILLANCE/EPIDEMIOLOGY PROTOCOL □ DRUG USE, e.g., POPULATION EXPOSURE, ASSOCIATED DIAGNOSES □ CASE REPORTS OF SPECIFIC REACTIONS (List below) □ COMPARATIVE RISK ASSESSMENT ON GENERIC DRUG GROUP 			☐ REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY ☐ SUMMARY OF ADVERSE EXPERIENCE ☐ POISON RISK ANALYSIS			
V. SCIENTIFIC INVESTIGATION			NVESTIGATIONS			
☐ CLINICAL			☐ NONCLINICAL			
COMMENTS/SPECIAL INSTRUCTIONS: The purpose of this consult is to Information Leaflet. The proposed labeling is in the edr.			ılt is to request ev	aluation of t	he proposed Patient	
SIGNATURE OF REQUESTOR Alice Kacuba				METHOD OF DELIVERY (Check one) ☐ DFS ☐ EMAIL ☐ MAIL ☐ HAND		
PRINTED NAME AND SIGNATURE OF RECEIVER			PRINTED NAME AND SIGNATURE OF DELIVERER			

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Alice Kacuba 6/3/2008 12:41:15 PM



Food and Drug Administration Center for Drug Evaluation and Research Office of Oncology Drug Products **Division of Drug Oncology Products**

FACSIMILE TRANSMITTAL SHEET

DATE: June 1, 2008

To: Kiran Krishnan US Agent for Apotex	From: Alice Kacuba, R.N., MSN, RAC Acting Chief, Project Management Staff Alice.Kacuba@fda.hhs.gov
Company: Apotex Corp	Division of Drug Oncology Products
Fax number: 954-349-4233	Fax number: 301-796-9845
Phone number: 954-384-3986	Phone number: (301) 796-1381

Subject: Information Request for NDA 22-312

Total no. of pages including cover:

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Ms. Krishnan,

The purpose of this Information Request is to request clarification:

Do you intend to propose a tradename for NDA 22-312, docetaxel?

Thank you.

Alice Kacuba

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Alice Kacuba 6/1/2008 08:07:31 PM



Food and Drug Administration Center for Drug Evaluation and Research Office of Oncology Drug Products Division of Drug Oncology Products

FACSIMILE TRANSMITTAL SHEET

DATE: May 24, 2008

To: Kiran Krishnan US Agent	From: Alice Kacuba, R.N., MSN, RAC Acting Chief, Project Management Staff Alice.Kacuba@fda.hss.gov
Company: Apotex Corp.	Division of Drug Oncology Products
Fax number: 954-349-4233	Fax number: 301-796-9849
Phone number: 954-384-3986	Phone number: (301) 796-1381

Subject: NDA 22-312

Total no. of pages including cover:

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Dear Ms. Krishnan,

In reviewing your pending NDA, NDA 22-312, we have the following information requests:

Regulatory

Please address PREA.

CMC

Provide updated stability data for the drug product by the mid cycle of NDA review. Submit the data in electronic format such as SAS transport or Excel spreadsheet and statistical analysis of all stability-indicating quality attributes. Any delayed submissions may not be reviewed in a timely manner to compute a reasonable product expiry.

Please submit a response as an amendment to your NDA. Feel free to contact me with any questions.

Thank you. Alice Kacuba

Alice Kacuba, RN, MSN, RAC (Acting) Chief, Project Management Staff Division of Drug Oncology Products Office of Oncology Drug Products OND/CDER/FDA 301-796-1381 (f)301-796-9849 alice.kacuba@fda.hhs.gov

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Alice Kacuba 5/24/2008 05:06:13 PM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION			R	EQUEST FOR CONS	SULTATION		
TO (Division/Office):	Micro			_	FROM: Division of Drug Oncology Products/Alice Kacuba, (301) 796-1381		
DATE 5-24-08	IND NO.		NDA NO. 22-312	TYPE OF DOCUMENT New NDA	DATE OF DOCUMENT 3-26-08		
NAME OF DRUG PRIORITY Docetaxel Injection NAME OF FIRM: Apotex		CONSIDERATION	CLASSIFICATION OF DRUG Oncology	DESIRED COMPLETION DATE November 24, 2008 Pdufa date-1-19-09			
NAME OF LIGHT. 2-1	- TOTCA		REASION F	FOR REQUEST			
				ENERAL			
NEW PROTOCOL PRENDA MEETING RESPONSE TO DEFICIENCY LETTER PROGRESS REPORT END OF PHASE II MEETING FINAL PRINTED LABELING NEW CORRESPONDENCE RESUBMISSION LABELING REVISION DRUG ADVERTISING SAFETY/EFFICACY ORIGINAL NEW CORRESPONDENCE ADVERSE REACTION REPORT PAPER NDA FORMULATIVE REVIEW MANUFACTURING CHANGE/ADDITION CONTROL SUPPLEMENT OTHER (SPECIFY BELOW): MEETING PLANNED BY							
an Injectable dr	The purpose rug product.	of this co This NDA	onsult is to reques	onic and is in the edr.	ate sections of the NDA for		
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SIGNATURE OF RECEIVER					LIVERER		

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Alice Kacuba 5/24/2008 05:55:31 PM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION			REQUEST FOR CONSULTATION				
TO (Office/Division): DDMA	_	FROM (Name, Office/Division, and Phone Number of Requestor): Alice Kacuba					
DATE May 24, 2008	IND NO.		NDA NO. 22-291	TYPE OF DOCUMENT New NDA	,	DATE OF DO March 27	
NAME OF DRUG Docetaxel Injection 40 mg/mL (20 mg/0.5 mL and 80 mg/2 mL) PRIORITY CONSIDERATION				CLASSIFICATION OF Oncology	DRUG	DESIRED CO Novembe pdufa date	•
NAME OF FIRM: Apotex							
			REASON FO	R REQUEST			
			I. GEN	VERAL			
	PRE-NDA MEETING END-OF-PHASE 2a MEE END-OF-PHASE 2 MEET RESUBMISSION SAFETY / EFFICACY PAPER NDA CONTROL SUPPLEMEN	TING					
			II. BIOM	IETRICS			
☐ PRIORITY P NDA REVIEW ☐ END-OF-PHASE 2 MEETING ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW):				☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):			
			III. BIOPHAR	RMACEUTICS			
☐ DISSOLUTION ☐ BIOAVAILABILTY STUDI		☐ DEFICIENCY LETTER RESPONSE ☐ PROTOCOL - BIOPHARMACEUTICS ☐ IN-VIVO WAIVER REQUEST					
			IV. DRUG	SAFETY			
☐ PHASE 4 SURVEILLANCE ☐ DRUG USE, e.g., POPULAT ☐ CASE REPORTS OF SPECI ☐ COMPARATIVE RISK ASS	CIATED DIAGNOSES low)	☐ REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY ☐ SUMMARY OF ADVERSE EXPERIENCE ☐ POISON RISK ANALYSIS			JSE AND SAFETY		
			V. SCIENTIFIC II	NVESTIGATIONS			
☐ CLINICAL				□ NONCLINICAL			
COMMENTS/SPECIAL INSTRUCTIONS: The purpose of this ocnsult is to request evaluation of the proposed labeling. I will invite you to labeling meetings. The proposed labeling is in the edr under the March 27, 2008 submission.							
SIGNATURE OF REQUESTOR Alice Kacuba		METHOD OF DELIVERY (Check one) ☐ DFS ☐ EMAIL ☐ MAIL ☐ HAND			☐ HAND		
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Alice Kacuba 5/24/2008 05:42:27 PM

DEPARTMENT OF HEALTH A PUBLIC HEALTH FOOD AND DRUG AD	R	REQUEST FOR CONSULTATION					
TO (Division/Office): CDER OSE CONSU		FROM: Alice Kacuba, DDOP, HFD-150					
DATE May 24, 2008	IND NO.		NDA NO. 22-312	TYPE OF DOCUMENT new NDA		DATE OF DOCUM March 27, 20	
NAME OF DRUG Docetaxel Injection 40 mg/mL (20 mg/0.5 mL and 80 mg/2 mL)g PRIORITY CONSIDERATION				CLASSIFICATION OF I	DRUG	November 2 pdufa date=1	4, 2008
NAME OF FIRM: Apotex							
				OR REQUEST			
□ NEW PROTOCOL □ PROGRESS REPORT □ NEW CORRESPONDENCY □ DRUG ADVERTISING □ ADVERSE REACTION RE □ MANUFACTURING CHAY □ MEETING PLANNED BY	PORT		PRENDA MEETING END OF PHASE II MEET RESUBMISSION SAFETY/EFFICACY PAPER NDA CONTROL SUPPLEMEN		FINAL PRI LABELING ORIGINAL FORMULA	NEW CORRESPON TIVE REVIEW	
			II. BIOM	METRICS			
STATISTICAL EVALUATION	BRANCH			STATISTICAL APPLIC	ATION BRANC	Н	
☐ TYPE A OR B NDA REVIE ☐ END OF PHASE II MEETII ☐ CONTROLLED STUDIES ☐ PROTOCOL REVIEW ☐ OTHER (SPECIFY BELOW			☐ CHEMISTRY REVIEW ☐ PHARMACOLOGY ☐ BIOPHARMACEUTICS ☐ OTHER (SPECIFY BELOW):				
			ІІІ. ВІОРНАБ	RMACEUTICS			
☐ DISSOLUTION ☐ BIOAVAILABILTY STUDI ☐ PHASE IV STUDIES			☐ DEFICIENCY LETTER RESPONSE ☐ PROTOCOL-BIOPHARMACEUTICS ☐ IN-VIVO WAIVER REQUEST				
			IV. DRUG E	XPERIENCE			
☐ PHASE IV SURVEILLANC ☐ DRUG USE e.g. POPULAT ☐ CASE REPORTS OF SPEC ☐ COMPARATIVE RISK ASS	URE, ASSOC IONS (List be	IATED DIAGNOSES low)	☐ REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY ☐ SUMMARY OF ADVERSE EXPERIENCE ☐ POISON RISK ANALYSIS				
			V. SCIENTIFIC I	NVESTIGATIONS			
☐ CLINICAL				☐ PRECLINICAL			
COMMENTS/SPECIAL INSTR 22-312-Docetaxel. Th				•			
PDUFA DATE: 1-19-09 ATTACHMENTS: Draft Packa CC: Archival IND/NDA 22-3 HFD-150/Division File HFD-150/RPM HFD-150/Reviewers and Team	12	ntainer and Ca	rton Labels				
NAME AND PHONE NUMBER Alice Kacuba 6-1381	R OF REQUI	ESTER		METHOD OF DELIVER ☑ DFS ONLY	RY (Check one)	AIL	☐ HAND
SIGNATURE OF RECEIVER		SIGNATURE OF DELIV	VERER				

5/28/05

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Public Health Service

Food and Drug Administration Rockville, MD 20857

NDA 22-312

NDA ACKNOWLEDGMENT

Apotex Corp-Florida Attention: Kiran Krishnan, US Agent for Apotex Inc. 2400 North Commerce Parkway, Suite 400 Weston, FL 33326

Dear Mr. Weston:

We have received your new drug application (NDA) submitted pursuant to section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act for the following:

Name of Drug Product: Docetaxel Injection, 40 mg/mL (20 mg/0.5 mL and 80 mg/2 mL)

Date of Application: March 27, 2008

Date of Receipt: March 28, 2008

Our Reference Number: NDA 22-312

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 May 27, 2008 in accordance with 21 CFR 314.101(a).

Information Request: Please submit one of the options for PREA: waiver request, deferral request, pediatric data. If already submitted, please provide the location.

If you have not already done so, promptly submit the content of labeling [21 CFR 314.50(l)(1)(i)] in structured product labeling (SPL) format as described at http://www.fda.gov/oc/datacouncil/spl.html. Failure to submit the content of labeling in SPL format may result in a refusal-to-file action under 21 CFR 314.101(d)(3). The content of labeling must be in the Prescribing Information (physician labeling rule) format.

The NDA number provided above be cited 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:

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

All regulatory documents submitted in paper should be three-hole punched on the left side of the page and bound. The left margin should be at least three-fourths of an inch to assure text is not obscured in the fastened area. Standard paper size (8-1/2 by 11 inches) should be used; however, it may occasionally be necessary to use individual pages larger than standard paper size. Non-standard, large pages should be folded and mounted to allow the page to be opened for review without disassembling the jacket and refolded without damage when the volume is shelved. Shipping unbound documents may result in the loss of portions of the submission or an unnecessary delay in processing which could have an adverse impact on the review of the submission. For additional information, please see http://www.fda.gov/cder/ddms/binders.htm.

If you have any questions, call me at (301) 796-1381.

Sincerely,

{See appended electronic signature page}

Alice Kacuba, RN, MSN, RAC Acting Chief, Project Management Staff Division of Drug Oncology Products Office of Oncology Drug Products Center for Drug Evaluation and Research

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Alice Kacuba 5/24/2008 04:24:26 PM IND 78,376, Docetaxel Injection Advanced Solid Tumors Pre-NDA Meeting FDA Pre-Meeting Comments

Background:

The purpose of this meeting according to the sponsor is, the Apotex Docetaxel Injection will be submitted as a 505(b)(2) application as there is a qualitative difference in the final infusion solution compared to Taxotere, with the incorporation of PEG-300 ingredient."

Sponsor's Questions:

a) Does FDA agree with Apotex's assessment that a clinical study in support of the 505(b)(2) application for docetaxel injectable is not required?

FDA: Yes.

b) If clinical studies should be required, what type of studies does the FDA require?

FDA: See above.

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/s/

Frank Cross 9/27/2007 03:24:19 PM CSO