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RESEARCH**

APPLICATION NUMBER:

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PROPRIETARY NAME REVIEW(S)

**Department of Health and Human Services
Public Health Service
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Surveillance and Epidemiology
Office of Medication Error Prevention and Risk Management**

Proprietary Name Review

Date: February 12, 2013

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Drug Name and Strengths: Tafinlar (Dabrafenib) Capsules, 50 mg and 75 mg

Application Type/Number: NDA 202806

Applicant: GlaxoSmithKline

OSE RCM #: 2012-2841

*** This document contains proprietary and confidential information that should not be released to the public.***

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Tafinlar, from a safety and promotional perspective. The sources and methods used to evaluate the proposed name are outlined in the reference section and Appendix A, respectively.

1.1 REGULATORY HISTORY

The proposed proprietary name, (b) (4), was found acceptable by DMEPA in OSE Review 2011-4107, dated April 12, 2012 under IND 105032. (b) (4)

Subsequently, GlaxoSmithKline submitted a NDA and the name was re-reviewed and found unacceptable in OSE Review 2012-1786, dated October 26, 2012 under NDA 202806. (b) (4)

Thus, the FDA Name Simulation Study results represented a new safety concern and this new information was the reason DMEPA reached a different decision. Therefore, the alternate name, Tafinlar, is being evaluated under this NDA. The proprietary name request on November 27, 2012 is the subject of this review.

1.2 PRODUCT INFORMATION

The following product information is provided in the November 27, 21012 proprietary name submission.

- Active Ingredient: Dabrafenib
- Indication of Use: Treatment of patients with BRAF V600 mutation positive unresectable or metastatic melanoma
- Route of Administration: Oral
- Dosage Form: Capsules
- Strength: 50 mg and 75 mg
- Dose and Frequency: Normal starting dose - 150 mg twice daily
- Dose adjustments based on toxicity - 100 mg, 75 mg, and 50 mg twice daily
- How Supplied: 120 count bottles for both strengths
- Storage: Store at 25°C. Excursions permitted between 15°C to 30°C
- Container and Closure Systems: Round, white, opaque HDPE bottles packed with silica gel desiccant, and closed with (b) (4) with a (b) (4) induction heat seal liner.

2 RESULTS

The following sections provide information obtained and considered in the overall evaluation of the proposed proprietary name.

2.1 PROMOTIONAL ASSESSMENT

The Office of Prescription Drug Promotion OPDP determined the proposed name is acceptable from a promotional perspective. DMEPA and the Division of Oncology Products 2 concurred with the findings of OPDP's promotional assessment of the proposed name.

2.2 SAFETY ASSESSMENT

The following aspects were considered in the safety evaluation of the name.

2.2.1 United States Adopted Names (USAN) SEARCH

The December 13, 2012 search of the United States Adopted Name (USAN) stems did not identify that a USAN stem is present in the proposed proprietary name.

2.2.2 Components of the Proposed Proprietary Name

The Applicant indicated in their submission that the proposed name, Tafinlar, has no derivation or intended meaning. This proprietary name is comprised of a single word that does not contain any components (i.e. a modifier, route of administration, dosage form, etc.) that are misleading or can contribute to medication error.

2.2.3 FDA Name Simulation Studies

Eighty practitioners participated in DMEPA's prescription studies. The interpretations did not overlap with, appear or sound similar to any currently marketed products. Nor did the interpretations look or sound similar to any names pending approval. Six of the eighty practitioners interpreted the prescriptions correctly as Tafinlar. Ten practitioners misinterpreted the inpatient prescription as 'Tofinlar' and 11 practitioners misinterpreted the voice prescription as 'Tosinlar'. Additionally, 10 practitioners misinterpreted the outpatient prescription by responding with the prefix 'Tof' rather than 'Taf'. See Appendix C for the complete listing of interpretations from the verbal and written prescription studies.

2.2.4 Comments from Other Review Disciplines

In response to the OSE December 6, 2012 e-mail, the Division of Oncology Products 2 (DOP2) did not forward any comments or concerns relating to the proposed name at the initial phase of the proprietary name review.

2.2.5 Failure Mode and Effects Analysis of Similar Names

Appendix B lists possible orthographic and phonetic misinterpretations of the letters appearing in the proposed proprietary name, Tafinlar. Table 1 lists the names with orthographic, phonetic, or spelling similarity to the proposed proprietary name, Tafinlar, identified by the primary reviewer, the Expert Panel Discussion (EPD), and other review

disciplines. Table 1 also includes the names identified from the FDA Prescription Simulation Studies or the external name assessment conducted (b) (4), which were not identified by DMEPA and require further evaluation.

Table 1: Collective List of Potentially Similar Names (DMEPA, EPD, Other Disciplines, and External Name Study)

Look Similar					
<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>
Tadalafil	(b) (4)	Tamoxifen	(b) (4)	Tamiflu	(b) (4)
Tenofovir	(b) (4)	Tafamidis***	FDA	Cefaclor	FDA
Titralac	FDA	Trilafon	FDA	Teladar	FDA
Tolectin	FDA	Teflaro	FDA	Toposar	FDA
Tekamlo	FDA	Sufenta	FDA	(b) (4)***	FDA
Zafran	FDA	Zofran	FDA	Tebamide	FDA
Tibolone	FDA	Tobradex	FDA	Zebeta	FDA
Acitretin	FDA	Defen LA	FDA	Fiber-Lax	FDA
Lofibra	FDA	Latuda	FDA	(b) (4)***	FDA
Rifampin	FDA				
Sound Similar					
<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>
Acular	(b) (4)	Synalar	(b) (4)	Tipranavir	(b) (4)
Zemplar	(b) (4)				
Look and Sound Similar					
<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>	<i>Name</i>	<i>Source</i>
Tofranil	Both	Ketalar	Both	Tasmar	(b) (4)
Tinamar	(b) (4)	Tafinlar***	FDA	(b) (4)***	FDA
(b) (4)***	FDA	(b) (4)***	FDA		

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Our analysis of the 40 names contained in Table 1 considered the information obtained in the previous sections along with their product characteristics. We determined the 40 names will not pose a risk for confusion as described in Appendices D through E.

2.2.6 Communication of DMEPA's Final Decision to Other Disciplines

DMEPA communicated our findings to the Division of Oncology Products 2 via e-mail on January 17, 2013. At that time we also requested additional information or concerns that could inform our review. Per e-mail correspondence from the Division of Oncology Products 2 on January 23, 2013, they stated no additional concerns with the proposed proprietary name, Tafinlar.

3 CONCLUSIONS

The proposed proprietary name is acceptable from both a promotional and safety perspective. If you have questions or need clarifications, please contact Sue Kang, OSE project manager, at 301-796-4216.

3.1 COMMENTS TO THE APPLICANT

We have completed our review of the proposed proprietary name, Tafinlar, and have concluded that this name is acceptable. However, if any of the proposed product characteristics as stated in your November 27, 2012 submission are altered, the name must be resubmitted for review.

Additionally, the proposed proprietary name must be re-reviewed 90 days prior to approval of the NDA. The conclusions upon re-review are subject to change.

4. REFERENCES

1. ***Micromedex Integrated Index*** (<http://csi.micromedex.com>)

Micromedex contains a variety of databases covering pharmacology, therapeutics, toxicology and diagnostics.

2. ***Phonetic and Orthographic Computer Analysis (POCA)***

POCA is a database which was created for the Division of Medication Error Prevention and Analysis, FDA. As part of the name similarity assessment, proposed names are evaluated via a phonetic/orthographic algorithm. The proposed proprietary name is converted into its phonemic representation before it runs through the phonetic algorithm. Likewise, an orthographic algorithm exists which operates in a similar fashion.

3. ***Drug Facts and Comparisons, online version, St. Louis, MO***
(<http://factsandcomparisons.com>)

Drug Facts and Comparisons is a compendium organized by therapeutic course; it contains monographs on prescription and OTC drugs, with charts comparing similar products. This database also lists the orphan drugs.

4. ***FDA Document Archiving, Reporting & Regulatory Tracking System [DARRTS]***

DARRTS is a government database used to organize Applicant and Sponsor submissions as well as to store and organize assignments, reviews, and communications from the review divisions.

5. ***Division of Medication Errors Prevention and Analysis proprietary name consultation requests***

This is a list of proposed and pending names that is generated by the Division of Medication Error Prevention and Analysis from the Access database/tracking system.

6. ***Drugs@FDA*** (<http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm>)

Drugs@FDA contains most of the drug products approved since 1939. The majority of labels, approval letters, reviews, and other information are available for drug products approved from 1998 to the present. Drugs@FDA contains official information about FDA approved brand name, generic drugs, therapeutic biological products, prescription and over-the-counter human drugs and discontinued drugs and "Chemical Type 6" approvals.

7. ***U.S. Patent and Trademark Office*** (<http://www.uspto.gov>)

USPTO provides information regarding patent and trademarks.

8. ***Clinical Pharmacology Online*** (www.clinicalpharmacology-ip.com)

Clinical Pharmacology contains full monographs for the most common drugs in clinical use, plus mini monographs covering investigational, less common,

combination, nutraceutical and nutritional products. It also provides a keyword search engine.

9. *Data provided by Thomson & Thomson's SAEGIS™ Online Service, available at (www.thomson-thomson.com)*

The Pharma In-Use Search database contains over 400,000 unique pharmaceutical trademarks and trade names that are used in about 50 countries worldwide. The data is provided under license by IMS HEALTH.

10. *Natural Medicines Comprehensive Databases (www.naturaldatabase.com)*

Natural Medicines contains up-to-date clinical data on the natural medicines, herbal medicines, and dietary supplements used in the western world.

11. *Access Medicine (www.accessmedicine.com)*

Access Medicine® from McGraw-Hill contains full-text information from approximately 60 titles; it includes tables and references. Among the titles are: Harrison's Principles of Internal Medicine, Basic & Clinical Pharmacology, and Goodman and Gilman's The Pharmacologic Basis of Therapeutics.

12. *USAN Stems (<http://www.ama-assn.org/ama/pub/about-ama/our-people/coalitions-consortiums/united-states-adopted-names-council/naming-guidelines/approved-stems.shtml>)*

USAN Stems List contains all the recognized USAN stems.

13. *Red Book (www.thomsonhc.com/home/dispatch)*

Red Book contains prices and product information for prescription, over-the-counter drugs, medical devices, and accessories.

14. *Lexi-Comp (www.lexi.com)*

Lexi-Comp is a web-based searchable version of the Drug Information Handbook.

15. *Medical Abbreviations (www.medilexicon.com)*

Medical Abbreviations dictionary contains commonly used medical abbreviations and their definitions.

16. *CVS/Pharmacy (www.CVS.com)*

This database contains commonly used over the counter products not usually identified in other databases.

17. *Walgreens (www.walgreens.com)*

This database contains commonly used over the counter products not usually identified in other databases.

18. Rx List (www.rxlist.com)

RxList is an online medical resource dedicated to offering detailed and current pharmaceutical information on brand and generic drugs.

19. Dogpile (www.dogpile.com)

Dogpile is a [Metasearch](#) engine that searches multiple search engines including Google, Yahoo! and Bing, and returns the most relevant results to the search.

20. Natural Standard (<http://www.naturalstandard.com>)

Natural Standard is a resource that aggregates and synthesizes data on complementary and alternative medicine.

APPENDICES

Appendix A

FDA's Proprietary Name Risk Assessment considers the promotional and safety aspects of a proposed proprietary name. The promotional review of the proposed name is conducted by OPDP. OPDP evaluates proposed proprietary names to determine if they are overly fanciful, so as to misleadingly imply unique effectiveness or composition, as well as to assess whether they contribute to overstatement of product efficacy, minimization of risk, broadening of product indications, or making of unsubstantiated superiority claims. OPDP provides their opinion to DMEPA for consideration in the overall acceptability of the proposed proprietary name.

The safety assessment is conducted by DMEPA. DMEPA staff search a standard set of databases and information sources to identify names that are similar in pronunciation, spelling, and orthographically similar when scripted to the proposed proprietary name. Additionally, we consider inclusion of USAN stems or other characteristics that when incorporated into a proprietary name may cause or contribute to medication errors (i.e., dosing interval, dosage form/route of administration, medical or product name abbreviations, names that include or suggest the composition of the drug product, etc.). DMEPA defines a medication error as any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care professional, patient, or consumer.¹

Following the preliminary screening of the proposed proprietary name, DMEPA gathers to discuss their professional opinions on the safety of the proposed proprietary name. This meeting is commonly referred to the Center for Drug Evaluation and Research (CDER) Expert Panel discussion. DMEPA also considers other aspects of the name that may be misleading from a safety perspective. DMEPA staff conducts a prescription simulation studies using FDA health care professionals. When provided, DMEPA considers external proprietary name studies conducted by or for the Applicant/Sponsor and incorporates the findings of these studies into the overall risk assessment.

The DMEPA primary reviewer assigned to evaluate the proposed proprietary name is responsible for considering the collective findings, and provides an overall risk assessment of the proposed proprietary name. DMEPA bases the overall risk assessment on the findings of a Failure Mode and Effects Analysis (FMEA) of the proprietary name and misleading nature of the proposed proprietary name with a focus on the avoidance of medication errors.

DMEPA uses the clinical expertise of its staff to anticipate the conditions of the clinical setting where the product is likely to be used based on the characteristics of the proposed product. DMEPA considers the product characteristics associated with the proposed product throughout the risk assessment because the product characteristics of the proposed may provide a context for communication of the drug name and ultimately determine the use of the product in the *usual* clinical practice setting.

¹ National Coordinating Council for Medication Error Reporting and Prevention. <http://www.nccmerp.org/about/MedErrors.html>. Last accessed 10/11/2007.

Typical product characteristics considered when identifying drug names that could potentially be confused with the proposed proprietary name include, but are not limited to; established name of the proposed product, proposed indication of use, dosage form, route of administration, strength, unit of measure, dosage units, recommended dose, typical quantity or volume, frequency of administration, product packaging, storage conditions, patient population, and prescriber population. DMEPA considers how these product characteristics may or may not be present in communicating a product name throughout the medication use system. Because drug name confusion can occur at any point in the medication use process, DMEPA considers the potential for confusion throughout the entire U.S. medication use process, including drug procurement, prescribing and ordering, dispensing, administration, and monitoring the impact of the medication.²

The DMEPA considers the spelling of the name, pronunciation of the name when spoken, and appearance of the name when scripted. DMEPA compares the proposed proprietary name with the proprietary and established name of existing and proposed drug products and names currently under review at the FDA. DMEPA compares the pronunciation of the proposed proprietary name with the pronunciation of other drug names because verbal communication of medication names is common in clinical settings. DMEPA examines the phonetic similarity using patterns of speech. If provided, DMEPA will consider the Sponsor's intended pronunciation of the proprietary name. However, DMEPA also considers a variety of pronunciations that could occur in the English language because the Sponsor has little control over how the name will be spoken in clinical practice. The orthographic appearance of the proposed name is evaluated using a number of different handwriting samples. DMEPA applies expertise gained from root-cause analysis of postmarketing medication errors to identify sources of ambiguity within the name that could be introduced when scripting (e.g., "T" may look like "F," lower case 'a' looks like a lower case 'u,' etc). Additionally, other orthographic attributes that determine the overall appearance of the drug name when scripted (see Table 1 below for details).

² Institute of Medicine. Preventing Medication Errors. The National Academies Press: Washington DC. 2006.

Table 1. Criteria Used to Identify Drug Names that Look- or Sound-Similar to a Proposed Proprietary Name.

Type of Similarity	Considerations when Searching the Databases		
	<i>Potential Causes of Drug Name Similarity</i>	<i>Attributes Examined to Identify Similar Drug Names</i>	<i>Potential Effects</i>
Look-alike	Similar spelling	Identical prefix Identical infix Identical suffix Length of the name Overlapping product characteristics	<ul style="list-style-type: none"> Names may appear similar in print or electronic media and lead to drug name confusion in printed or electronic communication Names may look similar when scripted and lead to drug name confusion in written communication
	Orthographic similarity	Similar spelling Length of the name/Similar shape Upstrokes Down strokes Cross-strokes Dotted letters Ambiguity introduced by scripting letters Overlapping product characteristics	<ul style="list-style-type: none"> Names may look similar when scripted, and lead to drug name confusion in written communication
Sound-alike	Phonetic similarity	Identical prefix Identical infix Identical suffix Number of syllables Stresses Placement of vowel sounds Placement of consonant sounds Overlapping product characteristics	<ul style="list-style-type: none"> Names may sound similar when pronounced and lead to drug name confusion in verbal communication

Lastly, DMEPA considers the potential for the proposed proprietary name to inadvertently function as a source of error for reasons other than name confusion. Post-marketing experience has demonstrated that proprietary names (or components of the proprietary name) can be a source of error in a variety of ways. Consequently, DMEPA considers and evaluates these broader safety implications of the name throughout this assessment and the medication error staff provides additional comments related to the

safety of the proposed proprietary name or product based on professional experience with medication errors.

1. Database and Information Sources

DMEPA searches the internet, several standard published drug product reference texts, and FDA databases to identify existing and proposed drug names that may sound-alike or look-alike to the proposed proprietary name. A standard description of the databases used in the searches is provided in the reference section of this review. To complement the process, the DMEPA uses a computerized method of identifying phonetic and orthographic similarity between medication names. The program, Phonetic and Orthographic Computer Analysis (POCA), uses complex algorithms to select a list of names from a database that have some similarity (phonetic, orthographic, or both) to the trademark being evaluated. Lastly, DMEPA reviews the USAN stem list to determine if any USAN stems are present within the proprietary name. The individual findings of multiple safety evaluators are pooled and presented to the CDER Expert Panel. DMEPA also evaluates if there are characteristics included in the composition that may render the name unacceptable from a safety perspective (abbreviation, dosing interval, etc.).

2. Expert Panel Discussion

DMEPA gathers CDER professional opinions on the safety of the proposed product and discussed the proposed proprietary name (Expert Panel Discussion). The Expert Panel is composed of Division of Medication Errors Prevention (DMEPA) staff and representatives from the Office of Prescription Drug Promotion (OPDP). We also consider input from other review disciplines (OND, ONDQA/OBP). The Expert Panel also discusses potential concerns regarding drug marketing and promotion related to the proposed names.

The primary Safety Evaluator presents the pooled results of the database and information searches to the Expert Panel for consideration. Based on the clinical and professional experiences of the Expert Panel members, the Panel may recommend additional names, additional searches by the primary Safety Evaluator to supplement the pooled results, or general advice to consider when reviewing the proposed proprietary name.

3. FDA Prescription Simulation Studies

Three separate studies are conducted within the Centers of the FDA for the proposed proprietary name to determine the degree of confusion of the proposed proprietary name with marketed U.S. drug names (proprietary and established) due to similarity in visual appearance with handwritten prescriptions or verbal pronunciation of the drug name. The studies employ healthcare professionals (pharmacists, physicians, and nurses), and attempts to simulate the prescription ordering process. The primary Safety Evaluator uses the results to identify orthographic or phonetic vulnerability of the proposed name to be misinterpreted by healthcare practitioners.

In order to evaluate the potential for misinterpretation of the proposed proprietary name in handwriting and verbal communication of the name, inpatient medication orders and/or outpatient prescriptions are written, each consisting of a combination of marketed and unapproved drug products, including the proposed name. These orders are optically

scanned and one prescription is delivered to a random sample of participating health professionals via e-mail. In addition, a verbal prescription is recorded on voice mail. The voice mail messages are then sent to a random sample of the participating health professionals for their interpretations and review. After receiving either the written or verbal prescription orders, the participants record their interpretations of the orders which are recorded electronically.

4. Comments from Other Review Disciplines

DMEPA requests the Office of New Drugs (OND) and/or Office of Generic Drugs (OGD), ONDQA or OBP for their comments or concerns with the proposed proprietary name, ask for any clinical issues that may impact the DMEPA review during the initial phase of the name review. Additionally, when applicable, at the same time DMEPA requests concurrence/non-concurrence with OPDP's decision on the name. The primary Safety Evaluator addresses any comments or concerns in the safety evaluator's assessment.

The OND/OGD Regulatory Division is contacted a second time following our analysis of the proposed proprietary name. At this point, DMEPA conveys their decision to accept or reject the name. The OND or OGD Regulatory Division is requested to provide any further information that might inform DMEPA's final decision on the proposed name.

Additionally, other review disciplines opinions such as ONDQA or OBP may be considered depending on the proposed proprietary name.

5. Safety Evaluator Risk Assessment of the Proposed Proprietary Name

The primary Safety Evaluator applies his/her individual expertise gained from evaluating medication errors reported to FDA, considers all aspects of the name that may be misleading or confusing, conducts a Failure Mode and Effects Analysis, and provides an overall decision on acceptability dependent on their risk assessment of name confusion. Failure Mode and Effects Analysis (FMEA) is a systematic tool for evaluating a process and identifying where and how it might fail.³ When applying FMEA to assess the risk of a proposed proprietary name, DMEPA seeks to evaluate the potential for a proposed proprietary name to be confused with another drug name because of name confusion and, thereby, cause errors to occur in the medication use system. FMEA capitalizes on the predictable and preventable nature of medication errors associated with drug name confusion. FMEA allows the Agency to identify the potential for medication errors due to orthographically or phonetically similar drug names prior to approval, where actions to overcome these issues are easier and more effective than remedies available in the post-approval phase.

In order to perform an FMEA of the proposed name, the primary Safety Evaluator must analyze the use of the product at all points in the medication use system. Because the proposed product is has not been marketed, the primary Safety Evaluator anticipates the use of the product in the usual practice settings by considering the clinical and product

³ Institute for Healthcare Improvement (IHI). Failure Mode and Effects Analysis. Boston. IHI:2004.

characteristics listed in Section 1.2 of this review. The Safety Evaluator then analyzes the proposed proprietary name in the context of the usual practice setting and works to identify potential failure modes and the effects associated with the failure modes.

In the initial stage of the Risk Assessment, the Safety Evaluator compares the proposed proprietary name to all of the names gathered from the above searches, Expert Panel Discussion, and prescription studies, external studies, and identifies potential failure modes by asking:

“Is the proposed proprietary name convincingly similar to another drug name, which may cause practitioners to become confused at any point in the usual practice setting? And are there any components of the name that may function as a source of error beyond sound/look-alike?”

An affirmative answer indicates a failure mode and represents a potential for the proposed proprietary name to be confused with another proprietary or established drug name because of look- or sound-alike similarity or because of some other component of the name. If the answer to the question is no, the Safety Evaluator is not convinced that the names possess similarity that would cause confusion at any point in the medication use system, thus the name is eliminated from further review.

In the second stage of the Risk Assessment, the primary Safety Evaluator evaluates all potential failure modes to determine the likely *effect* of the drug name confusion, by asking:

“Could the confusion of the drug names conceivably result in medication errors in the usual practice setting?”

The answer to this question is a central component of the Safety Evaluator’s overall risk assessment of the proprietary name. If the Safety Evaluator determines through FMEA that the name similarity would not ultimately be a source of medication errors in the usual practice setting, the primary Safety Evaluator eliminates the name from further analysis. However, if the Safety Evaluator determines through FMEA that the name similarity could ultimately cause medication errors in the usual practice setting, the Safety Evaluator will then recommend the use of an alternate proprietary name.

Moreover, DMEPA will object to the use of proposed proprietary name when the primary Safety Evaluator identifies one or more of the following conditions in the Overall Risk Assessment:

- a. OPDP finds the proposed proprietary name misleading from a promotional perspective, and the Review Division concurs with OPDP’s findings. The Federal Food, Drug, and Cosmetic Act provides that labeling or advertising can misbrand a product if misleading representations are made or suggested by statement, word, design, device, or any combination thereof, whether through a PROPRIETARY name or otherwise [21 U.S.C 321(n); See also 21 U.S.C. 352(a) & (n)].
- b. DMEPA identifies that the proposed proprietary name is misleading because of similarity in spelling or pronunciation to another proprietary or established name of a different drug or ingredient [CFR 201.10.(C)(5)].

- c. FMEA identifies the potential for confusion between the proposed proprietary name and other proprietary or established drug name(s), and demonstrates that medication errors are likely to result from the drug name confusion under the conditions of usual clinical practice.
- d. The proposed proprietary name contains an USAN (United States Adopted Names) stem.
- e. DMEPA identifies a potential source of medication error within the proposed proprietary name. For example, the proprietary name may be misleading or, inadvertently, introduce ambiguity and confusion that leads to errors. Such errors may not necessarily involve confusion between the proposed drug and another drug product but involve a naming characteristic that when incorporated into a proprietary name, may be confusing, misleading, cause or contribute to medication errors.

If DMEPA objects to a proposed proprietary name on the basis that drug name confusion could lead to medication errors, the primary Safety Evaluator uses the FMEA process to identify strategies to reduce the risk of medication errors. DMEPA generally recommends that the Sponsor select an alternative proprietary name and submit the alternate name to the Agency for review. However, in rare instances FMEA may identify plausible strategies that could reduce the risk of medication error of the currently proposed name. In that instance, DMEPA may be able to provide the Sponsor with recommendations that reduce or eliminate the potential for error and, thereby, would render the proposed name acceptable.

In the event that DMEPA objects to the use of the proposed proprietary name, based upon the potential for confusion with another proposed (but not yet approved) proprietary name, DMEPA will provide a contingency objection based on the date of approval. Whichever product, the Agency approves first has the right to use the proprietary name, while DMEPA will recommend that the second product to reach approval seek an alternative name.

The threshold set for objection to the proposed proprietary name may seem low to the Applicant/Sponsor. However, the safety concerns set forth in criteria a through e above are supported either by FDA regulation or by external healthcare authorities, including the Institute of Medicine (IOM), World Health Organization (WHO), the Joint Commission, and the Institute for Safe Medication Practices (ISMP). These organizations have examined medication errors resulting from look- or sound-alike drug names, confusing, or misleading names and called for regulatory authorities to address the issue prior to approval. Additionally, DMEPA contends that the threshold set for the Proprietary Name Risk Assessment is reasonable because proprietary drug name confusion is a predictable and preventable source of medication error that, in many instances, the Agency and/or Sponsor can identify and rectify prior to approval to avoid patient harm.

Furthermore, post-marketing experience has demonstrated that medication errors resulting from drug name confusion are notoriously difficult to rectify post-approval. Educational and other post-approval efforts are low-leverage strategies that have had limited effectiveness at alleviating medication errors involving drug name confusion. Sponsors have undertaken higher-leverage strategies, such as drug name changes, in the

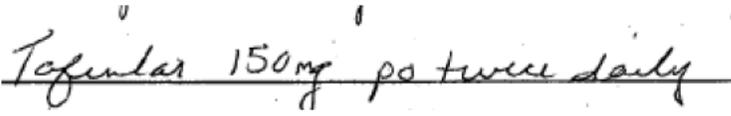
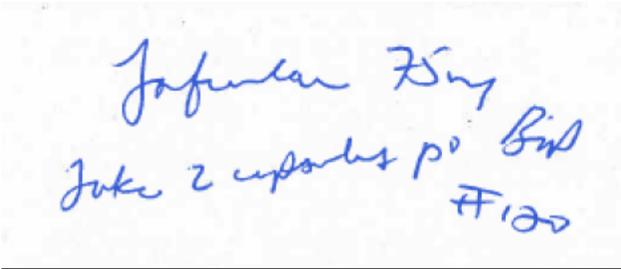
past but at great financial cost to the Sponsor and at the expense of the public welfare, not to mention the Agency’s credibility as the authority responsible for approving the error-prone proprietary name. Moreover, even after Sponsors’ have changed a product’s proprietary name in the post-approval phase, it is difficult to eradicate the original proprietary name from practitioners’ vocabulary, and as a result, the Agency has continued to receive reports of drug name confusion long after a name change in some instances. Therefore, DMEPA believes that post-approval efforts at reducing name confusion errors should be reserved for those cases in which the potential for name confusion could not be predicted prior to approval.

Appendix B: Letters and Letter Strings with Possible Orthographic or Phonetic Misinterpretation

Letters in Name,	Scripted May Appear as	Spoken May Be Interpreted as
T	F,J,L	D,J,L
t	f,x,A,z	d
A	el, ci, cl, d, o, u	Any vowel
F	t,b	
I	e,l	y
N	m, u, r, h, s	m, gn, mn
L	b,e, s, A, P, I,k,h	d
R	s, n, ,v	v
Letter strings		
	‘Tol’, ‘Teb’, ‘Tob’, ‘Zeb’, ‘Aci’	
‘Taf’	‘Lof’, ‘Fib’, ‘Tef’	
‘inlar’	‘enda’	
‘lar’	‘dis’, ‘lac’, ‘fon’, ‘lor’	

Appendix C: Prescription Simulation Samples and Results

Figure 1. Tafinlar Study (Conducted on December 6, 2012)

Handwritten Requisition Medication Order	Verbal Prescription
<p><u>Medication Order:</u> </p>	<p>Tafinlar 75 mg Take 2 capsules po bid Disp # 120</p>
<p><u>Outpatient Prescription:</u> </p>	

FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)

194 People Received Study				
80 People Responded				
Study Name: Tafinlar				
Total	25	28	27	80
INTERPRETATION	INPATIENT	VOICE	OUTPATIENT	TOTAL
FAFULAR	0	0	1	1
JAFINLAR	0	0	1	1
JAFULAR	0	0	2	2
JAFUNBAR	0	0	1	1
JOFUNLAR	0	0	1	1
LAFRELAR	0	0	1	1
SINLAR	0	1	0	1
TACYNLAR	0	1	0	1
TAFENDAR	1	0	0	1
TAFENLAR	1	0	0	1
TAFINDAR	2	0	0	2
TAFINLAR	5	0	1	6
TAFINTAR	1	0	0	1
TAFUBAR	0	0	1	1
TAFUCAR	0	0	1	1
TAFULAR	0	0	1	1
TAFUMLAR	0	0	1	1
TAFUNDAR	0	0	1	1

TAFUNLAR	1	0	1	2
TANFINLAR	1	0	0	1
TASIMLAR	0	1	0	1
TASINLAR	0	2	0	2
TEFINLAR	0	1	0	1
TESIMAR	0	1	0	1
TESINLAR	0	1	0	1
TISINMAR	0	1	0	1
TOCINLAR	0	2	0	2
TOCINMAR	0	1	0	1
TOCINWAR	0	1	0	1
TOFENLAR	1	1	0	2
TOFINLAR	10	0	0	10
TOFINTAR	1	0	0	1
TOFRINLAR	0	0	1	1
TOFRINLAR?	0	0	1	1
TOFULAR	0	0	3	3
TOFUNDAR	1	0	1	2
TOFUNLAR	0	0	5	5
TOSENMAR	0	1	0	1
TOSIMLAR	0	1	0	1
TOSINLAR	0	11	0	11
TOSYNLAR	0	1	0	1
ZAFULAR	0	0	1	1
ZOFUTAN	0	0	1	1

Appendix D: Proprietary names not likely to be confused or not used in usual practice settings for the reasons described.

No.	Proprietary Name	Active Ingredient	Similarity to Tafinlar	Failure preventions
1.	Tadalafil		Looks similar	The pair has sufficient orthographic differences
2.	Tenofovir		Looks similar	The pair has sufficient orthographic differences
3.	Zafran	Safflower	Looks similar	The pair has sufficient orthographic differences
4.	Tamoxifen		Looks similar	The pair has sufficient orthographic differences
5.	Zofran	Ondansetron	Looks similar	The pair has sufficient orthographic differences
6.	Toposar	Etoposide	Looks similar	The pair has sufficient orthographic differences
7.	Tipranavir		Sounds similar	The pair has sufficient phonetic differences
8.	Tafinlar ^{***}	Dabrafenib	Look and sound similar	Name that is the subject of this review
9.	(b) (4)	Dabrafenib	Look and sound similar	Alternative name for this product. The name, (b) (4) was found unacceptable in OSE Review # 2012-1786.
10.	(b) (4) ^{***}			(b) (4)
11.	(b) (4) ^{***}			
12.	(b) (4) ^{***}			

^{***} This document contains proprietary and confidential information that should not be released to the public.

Appendix E: Risk of medication errors due to product confusion minimized by dissimilarity of the names and/or use in clinical practice for the reasons described.

No.	Proposed name: Tafinlar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
1.			(b) (4)
2.	Tafamidis*** Capsules 20 mg Dose: 1 capsule orally once daily	Orthographic: Both names begin with the letter string ‘Taf’. The letter string ‘dis’ can look similar to the letter string ‘lar’ when scripted. Dose: Both products can be prescribed as ‘take 1’ Route of Administration: Both products are given orally	Orthographic: The letter string ‘ami’ does not look similar to the letter string ‘in’ when scripted. Strength: Tafinlar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity in dose.

*** This document contains proprietary and confidential information that should not be released to the public.

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
3.	Tebamide (Trimethobenzamide) Rectal suppository 100 mg and 200 mg Usual Dose: 100 mg to 200 mg rectally every 6 hours as needed	Orthographic: The letter string 'Teb' can look similar to the letter string 'Taf' when scripted. The letter string 'de' can look similar to the letter string 'la' when scripted. Dose: There is an overlap in dose with the 100 mg dose	Orthographic: The letter string 'ami' does not look similar to the letter string 'in' when scripted. Tafilnar has the letter 'r' at the end of the name where Tebamide does not. Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity Frequency of Administration: twice daily vs. every 6 hours as needed
4.	Tibolone Tablets 2.5 mg Usual Dose: One tablet orally once daily	Orthographic: Both names begin with the letter 't'. The letter 'b' in the third position can look similar to the letter 'f' in the third position. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 1'	Orthographic: The letter string 'olone' does not look similar to the letter string 'inlar' when scripted. Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity
5.	Tobradex (Tobramycin/Dexamethaone) Ophthalmic Suspension 0.3%/0.1% Usual Dose: Instill 1 to 2 drops to the affected eye every 6 hours	Orthographic: The letter string 'Tob' can look similar to the letter string 'Taf' when scripted. The letter string 'dex' can look similar to the letter string 'lar' when scripted if the letter 'x' is not crossed. Dose: Both products can be prescribed as '1 or 2'.	Orthographic: The letter string 'ra' does not look similar to the letter string 'in' when scripted. Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
6.	Zebeta (Bisoprolol) Tablet 5 mg and 10 mg Dose: 1 to 2 tablets orally once daily	Orthographic: The letter string 'Zeb' can look similar to the letter string 'Taf' when scripted. Dose: Both products can be prescribed as take '1'. There is numerical similarity between the 10 mg and 100 mg dose Strength: There is numerical similarity with the 5 mg and 50 mg strengths Route of Administration: Both products are given orally	Orthographic: The letter string 'eta' does not look similar to the letter string 'inlar' when scripted. Zebeta has 6 letters where Tafilnar has 8 letters. Thus, Tafilnar appears longer when scripted.
7.	Acitretin Capsules 10 mg and 25 mg Usual Dose: 10 mg to 50 mg orally once daily	Orthographic: The letter string 'Aci' can look similar to the letter string 'ta' when scripted if the letter 'A' is capitalized and is written narrowly. The letter string 'in' can look similar to the letter string 'ar' when scripted. Dose: Both products can be prescribed as 'take 1'. There is an overlap with the 50 mg dose. Dosage Form: Both products are capsules Route of Administration: Both products are given orally	Orthographic: Acitretin has a cross stroke letter 't' near the beginning of the name where Tafilnar has an upstroke and downstroke letter 'f' near the beginning of the name. Acitretin has a cross stroke letter 't' near the end of the name where the name Tafilnar has an upstroke letter 'l' near the end of the name. The letter string 're' between the cross stroke letters 't' does not look similar to the letter string 'in' between the two upstroke letters in Tafilnar.

No.	Proposed name: Tafenlar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
8.	Defen LA (Guaifenesin/Pseudoephedrine) Extended-release Tablets 600 mg/60 mg Usual Dose: 1 tablet orally twice daily	Orthographic: If the root name and the modifier are written together, the letter string 'efenla' can look similar to the letter string 'afinla' when scripted. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 1'. Frequency of Administration: Both products are taken twice daily	Orthographic: The letter 'D' does not look similar to the letter 'T' when scripted. If the modifier is not written together with the root name, there is sufficient orthographic differentiation between the names. Strength: Tafenlar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity
9.	Fiber-Lax (Calcium Polycarbophil) Tablets 625 mg Usual Dose: 2 tablets orally twice daily to four times daily	Orthographic: The letter string 'Fib' can look similar to the letter string 'Taf' when scripted. If no dash is used when Fiber-lax is scripted and a lower case 'l' is scripted, the letter string 'erlax' can look similar to the letter string 'inlar', especially if the letter 'x' is not crossed. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 2'. Frequency of Administration: Both products can be taken twice daily	Orthographic: The use of the dash and the use of an upper case 'L' provides orthographic differentiation. Strength: Tafenlar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity

No.	Proposed name: Tafinlar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
10.	Lofibra (Fenofibrate) Capsules and Tablets Capsule: 67 mg, 134 mg, 200 mg Tablet: 54 mg, 160 mg Usual Dose: 1 tablet or capsule orally once daily	Orthographic: The letter string 'Lof' can look similar to the letter string 'Taf' when scripted. Dosage Form: Both products have capsules as a dosage form Route of Administration: Both products are given orally	Orthographic: The letter string 'ibra' does not look similar to the letter string 'inlar' when scripted. Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity
11.	Latuda (Lurasidone) Tablets 20 mg, 40 mg, 80 mg, 120 mg Usual Dose: 40 mg to 160 mg orally once daily	Orthographic: The letter string 'La' can look similar to the letter string 'Ta' when scripted. The letter string 'da' can look similar to the letter string 'la' when scripted. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 1' or 'take 2'. There is an overlap with the 100 mg dose	Orthographic: Latuda contains a cross stroke letter 't' in the third position where Tafinlar contains an upstroke and downstroke letter 'f' in the third position. The letter 'u' does not look similar to the letter string 'in' when scripted. Latuda does not have the letter 'r' at the end of the name where Tafinlar does. Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
12.	Titalac (Calcium Carbonate) Tablets 420 mg Usual Dose: 2 tablets orally every 2 hours as needed	Orthographic: The letter string 'Ti' can look similar to the letter string 'Ta' when scripted. The letter string 'lac' can look similar to the letter string 'lar' when scripted. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 2'.	Orthographic: Titalac has a cross stroke letter 't' in the third position where Tafilnar contains an upstroke and downstroke letter 'f' in the third position. The letter string 'ra' does not look similar to the letter string 'in' when scripted. Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity Frequency of Administration: twice daily vs. every 2 hours as needed
13.	Tolectin (Tolmetin) Tablets 200 mg and 600 mg Usual Dose: 200 mg to 600 mg orally three times daily	Orthographic: The letter string 'Tol' looks similar to the letter string 'Taf' when scripted. The letter string 'in' looks similar to the letter string 'ar' when scripted. Route of Administration: Both products are given orally Dose: Both products can be prescribed as 'take 1' or 'take 2'.	Orthographic: The letter string 'ect' does not look similar to the letter string 'inl' when scripted. Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
14.	<p>Tekamlo (Aliskiren/Amlodipine) Tablets</p> <p>150 mg/5 mg 150 mg/10 mg 300 mg/5 mg 300 mg/10 mg</p> <p>Usual Dose: 1 to 2 tablets orally daily</p>	<p>Orthographic: The letter string 'Te' can look similar to the letter string 'Ta' when scripted. The letter string 'lo' can look similar to the letter string 'la' when scripted.</p> <p>Route of Administration: Both products are given orally</p> <p>Dose: Both products can be prescribed as 'take 1' or 'take 2'. There is numerical similarity with the 150 mg dose and the 150 mg/5 mg dose.</p>	<p>Orthographic: The letter string 'kam' does not look similar to the letter string 'fin' when scripted.</p> <p>Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity</p>
15.	<p>Trilafon (Perphenazine) Tablets, Oral Solution, Solution for Injection</p> <p>Tablets: 2 mg, 4 mg, 8 mg, 16 mg</p> <p>Oral Solution: 16 mg/5 mL</p> <p>Solution for Injection: 5 mg/mL</p> <p>Usual Dose: Oral – 2 mg to 16 mg orally three times daily</p> <p>Injection- 1 mg to 5 mg intravenously once only</p>	<p>Orthographic: Both names begin with the letter 'T'. The letter string 'fon' can look similar to the letter string 'lar' when scripted.</p> <p>Route of Administration: Both products are given orally</p> <p>Dose: Both products can be prescribed as 'take 1' or 'take 2'. There is numerical similarity with the 10 mg and the 100 mg dose</p>	<p>Orthographic: The letter string 'rila' does not look similar to the letter string 'afin' when scripted.</p> <p>Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity</p>

No.	Proposed name: Tafenlar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
16.	<p>Teflaro (Ceftaroline) Powder for Injection</p> <p>400 mg and 600 mg</p> <p>Usual Dose: 400 mg or 600 mg intravenously every 12 hours</p>	<p>Orthographic: The letter string 'Tef' can look similar to the letter string 'Taf' when scripted.</p> <p>Frequency of Administration: Both products can be given twice daily</p>	<p>Orthographic: The letter string 'flaro' does not look similar to the letter string 'inlar' when scripted.</p> <p>Dose: There is no overlap or numerical similarity in dose</p> <p>Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity</p>
17.	<p>Sufenta (Sufentanil) Solution for Injection</p> <p>50 mcg/mL</p> <p>Usual Dose: 25 mcg to 500 mcg intravenously once prior to procedure</p> <p>10 mcg to 25 mcg intravenously during procedure</p> <p>25 mcg to 100 mcg per hour via continuous intravenous infusion</p>	<p>Orthographic: The letter string 'ufen' can look similar to the letter string 'afin' when scripted.</p> <p>Strength: There is numerical similarity with the 50 mcg/mL strength and the 50 mg strength</p> <p>Dose: There is numerical similarity between doses</p>	<p>Orthographic: The letter 'S' does not look similar to the letter string 'T' when scripted. Sufenta has a cross stroke letter 't' near the end of the name where Tafenlar has an upstroke letter near the end of the name.</p> <p>Frequency of Administration: Once or continuous infusion vs. twice daily</p>

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
18.	<p>Tamiflu (Oseltamivir) Capsules and Powder for Suspension</p> <p>Capsule: 30 mg, 45 mg, 75 mg</p> <p>Powder for Suspension: 6 mg/mL, 12 mg/mL</p> <p>Usual Dose: 30 mg to 75 mg orally once or twice daily</p>	<p>Orthographic: Both names begin with the letter string 'Ta'. The letter string 'lu' can look similar to the letter string 'lar' when scripted.</p> <p>Route of Administration: Both products are given orally</p> <p>Dosage Form: Both products have capsules as a dosage form</p> <p>Dose and Strength: There is an overlap with the 75 mg dose and strength</p> <p>Frequency of Administration: Both products can be given twice daily</p>	<p>Orthographic: The letter 'mif' does not look similar to the letter string 'fin' when scripted.</p>

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
19.	<p>Cefaclor Capsule, Extended-release Tablets, and Oral Suspension</p> <p>Capsule: 250 mg and 500 mg</p> <p>Extended Release tablet: 500 mg</p> <p>Oral Suspension: 125 mg/5 mL 187 mg/5 mL 250 mg/5 mL 375 mg/5 mL</p> <p>Usual Dose: 50 mg to 750 mg orally twice daily or three times daily</p>	<p>Orthographic: The letter string 'efa' can look similar to the letter string 'afi' when scripted. The letter string 'lor' can look similar to the letter string 'lar' when scripted.</p> <p>Dose: There is an overlap in dose</p> <p>Strength: There is numerical similarity in strength between the 500 mg and 50 mg strength</p> <p>Route of Administration: Both products are given orally</p> <p>Dosage Form: Both products have capsules as a dosage form</p> <p>Frequency of Administration: Both products can be given twice daily</p>	<p>Orthographic: The letter 'C' does not look similar to the letter 'T'. The letter string 'ac' does not look similar to the letter string 'in' in Tafilnar.</p>
20.	<p>Teladar (Betamethasone) Topical Cream</p> <p>0.05%</p> <p>Usual Dose: Apply to affected area two to three times daily</p>	<p>Orthographic: The letter string 'Te' can look similar to the letter string 'Ta' when scripted. Both names end with the letter string 'ar'.</p> <p>Frequency of Administration: Both products can be given twice daily</p>	<p>Orthographic: The letter string 'la' does not look similar to the letter string 'fi' when scripted.</p> <p>Dose: Apply to affected area vs. 'take 1' or 'take 2'</p> <p>Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity</p>

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
21.	<p>Acular (Ketorolac) Ophthalmic Solution</p> <p>0.5%</p> <p>Usual Dose: Apply 1 drop to the affected eye four times daily</p>	<p>Phonetic: Both names end with the letter string 'lar'.</p> <p>Dose: Both products can be dosed as '1'</p>	<p>Phonetic: The letter string 'Acu' does not sound similar to the letter string 'Tafin'.</p> <p>Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity</p>
22.	<p>Zemplar (Paricalcitol) Capsules and Solution for Injection</p> <p>Capsules: 1 mcg, 2 mcg, 4 mcg</p> <p>Solution for Injection: 2 mcg/mL and 5 mcg/mL</p> <p>Usual Dose: 1 mcg to 4 mcg orally three times per week</p> <p>3 mcg to 6 mcg intravenously given during dialysis</p>	<p>Phonetic: Both names end with the letter string 'lar'.</p> <p>Route of Administration: Both products are given orally</p> <p>Dosage Form: Both products have capsules as a dosage form</p> <p>Strength: There is numerical similarity with the 50 mg strength and the 5 mcg/mL strength</p> <p>Dose: There is numerical similarity with the 5 mcg dose and the 50 mg dose</p>	<p>Phonetic: The letter string 'Zemp' does not sound similar to the letter string 'Tafin'. Tafilnar has 3 syllables where Zemplar has only 2 syllables.</p> <p>Frequency of Administration: Three times weekly or during dialysis vs. twice daily</p>

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
23.	Synalar (Fluocinolone) Topical Solution 0.01% Usual Dose: Apply a thin film to the affected area two to four times daily	Phonetic: Both names end with the letter string 'lar'. Both names have 3 syllables. Frequency of Administration: Both products can be given twice daily	Phonetic: The letter string 'Syna' does not sound similar to the letter string 'Tafin'. Dose: Apply to affected area vs. take 2 capsules Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity
24.	Tofranil (Imipramine) Tablets 10 mg, 25 mg, 50 mg <u>Usual Dose</u> 25 mg to 100 mg orally three times daily 10 mg to 75 mg orally once daily at bedtime	Orthographic: The letter string 'Tof' can look similar to the letter string 'Taf' when scripted. Phonetic: The letter string 'Tof' can sound similar to the letter string 'Taf'. Route of Administration: Both products are given orally Dose: There is an overlap in dose Strength: There is an overlap in strength	Orthographic: The letter string 'ranil' does not look similar to the letter string 'inlar' when scripted. Phonetic: The letter string 'ranil' does not sound similar to the letter string 'inlar'.

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
25.	Tinamar (Tolnaftate) Topical Cream, Topical Spray, Topical Solution, Topical Powder 1% Usual Dose: Apply to affected area twice daily	Orthographic: Both names begin with the letter 'T'. Both names have the letter string 'ar' at the end of the name. Phonetic: The letter string 'Ti' sounds similar to the letter string 'Ta'. The letter string 'mar' sounds similar to the letter string 'lar'. Frequency of Administration: Both products are given twice daily	Orthographic: The letter string 'nam' does not look similar to the letter string 'finl' when scripted. Phonetic: The letter string 'na' does not sound similar to the letter string 'fin'. Dose: Apply to affected area vs. take two capsules Strength: Tafilnar has multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity
26.	Ketalar (Ketamine) Solution for Injection 10 mg/mL, 50 mg/mL, and 100 mg/mL Usual Dose: Surgical Anesthesia: 2 mg/kg intravenously followed by a maintenance dose of 1 mg/kg (50 mg to 600 mg dose or 1 mL to 12 mL)	Orthographic: Both names end with the letter string 'lar' Phonetic: Both names end with the letter string 'lar' Strength: There is numerical similarity with the 50 mg strength and the 50 mg/mL strength Dose: There can be an overlap in dose based on weight for Ketalar	Orthographic: The letter 'K' does not look similar to the letter 'T' when scripted. The letter 'a' between the two upstroke letters in Ketalar does not look similar to the letter string 'in' in Tafilnar. Phonetic: The letter string 'Keta' does not sound similar to the letter string 'Tafin' Frequency of Administration: As needed to maintain anesthesia during procedure vs. twice daily

No.	Proposed name: Tafilnar Dosage Form: Capsules Strength(s): 50 mg, 75 mg Usual Dose: 50 mg, 75 mg, 100 mg, or 150 mg orally twice daily	Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion Causes (could be multiple)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
27.	Tasmar (Tolcapone) Tablets 100 mg and 200 mg Usual Dose: 100 mg to 200 mg orally three times daily	Orthographic: Both names begin with the letter string 'Ta'. Both names end with the letter string 'ar' Phonetic: Both names begin with the letter string 'Ta'. Both names end with the letter string 'ar'. Dose: There is an overlap in dose (100 mg) Route of Administration: Both products are given orally	Orthographic: The letter string 'sm' does not look similar to the letter string 'finl' when scripted. Phonetic: The letter string 'sm' does not sound similar to the letter string 'finl'. Tasmar has only 2 syllables where Tafilnar has 3 syllables. Strength: Both products have multiple strengths that would need to be indicated on the prescription. There is no overlap or numerical similarity.
28.	<div style="text-align: right;">(b) (4)</div>		

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/s/

JAMES H SCHLICK
02/12/2013

TODD D BRIDGES
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CAROL A HOLQUIST
02/12/2013

**Department of Health and Human Services
Public Health Service
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Surveillance and Epidemiology
Office of Medication Error Prevention and Risk Management**

Proprietary Name Review

Date: October 26, 2012

Reviewer(s): James Schlick, RPh, MBA
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Drug Name and Strengths: (b) (4) (Dabrafenib) Capsules, 50 mg and 75 mg

Application Type/Number: NDA 202806

Applicant/Sponsor: GlaxoSmithKline

OSE RCM #: 2012-1786

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/s/

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