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RESEARCH**

APPLICATION NUMBER:

204553Orig1s000

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: October 31, 2013

Reviewer: Lisa V. Khosla, PharmD, M.H.A
Division of Medication Error Prevention and Analysis

Team Leader: Lubna Merchant, M.S., PharmD
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Drug Name(s) and Strength(s): Colprep Kit (Sodium Sulfate, Potassium Sulfate,
Magnesium Sulfate) Powder for Oral Solution
17.5 g/3.13 g/1.6 g per bottle

Application Type/Number: NDA 204553

Applicant/Sponsor: Gator Pharmaceuticals

OSE RCM #: 2013-2026

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Colprep Kit for NDA #204553, 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

DMEPA previously reviewed two proposed proprietary names, (b) (4) and (b) (4) Kit under NDA 204553. (b) (4) (OSE Review # 2013-804 dated April 24, 2013) and (b) (4) (OSE Review #2013-1556 dated July 22, 2013) were found unacceptable. The Applicant now proposes the proprietary name, Colprep Kit, for our review under NDA 204553.

1.2 PRODUCT INFORMATION

The reference listed drug, Suprep Bowel Prep Kit (NDA 022372), was approved in August 5, 2010. The proposed product differs from the reference listed drug (RLD) in that the proposed product is a powder for oral solution with a strength of 17.5 g/3.13 g/1.6 g per bottle whereas the reference listed drug (RLD) is an oral solution with a strength of 17.5 g/3.13 g/1.6 g per 6 ounces.

The following product information is provided in the September 5, 2013 proprietary name submission.

- Active Ingredient: Sodium Sulfate, Potassium Sulfate, Magnesium Sulfate
- Indication of Use: Cleansing of the colon in preparation for colonoscopy in adults
- Route of Administration: Oral
- Dosage Form: Powder for oral solution
- Strength: 17.5 g/3.13 g/1.6 g
- Dose and Frequency: Split-Dose (2 day) Regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.
- How Supplied: Two bottles containing 22.7 g of powder for reconstitution.
- Storage: Store between 20° to 25°C (68° to 77°F). Excursions permitted between 15° to 30°C (59° to 86°F).

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

Gastroenterology and Inborn Error Products (DGIEP) 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 September 27, 2103 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 did not state any intended meaning of this name in their submission. This proprietary name is comprised of multiple words that contain two components: 1) the proposed root name, Colprep, and 2) the modifier, Kit. Because it is not uncommon for prescribers to drop the modifier component of a name, DMEPA considers the name 'Colprep Kit' and 'Colprep' in our analysis.

We assessed the modifier, kit, to determine if it could cause confusion as a result of being associated with a particular class of drugs or route of administration. The results of a search at Drugs@FDA for proprietary names containing the modifier "kit" (see Appendix F) indicated that use of the modifier "kit" in proprietary names is not limited to any particular drug classes or routes of administration. Additionally, the results of the search indicate that the modifier, kit, is used to convey a product with multiple components used to prepare and administer the drug.

Moreover, the Applicant proposes spelling "Colprep Kit", with the use of a capital letter "P". Thus, in our evaluation of the name, we considered the fact that in the marketplace, the name may be spelled with the letter "P" capitalized or in lower case.

Our evaluation of the use of capitalization inside the name also noted this is an example of tall-man (mixed-case or enlarged) lettering. Tall-man letters are used to emphasize the differing portions of two names in order to help differentiate them by drawing attention to their dissimilarities. It is typically used to differentiate known look-alike names that have been confused and resulted in wrong drug medication errors (e.g., ZyrTEC and ZyPREXA).¹ Thus, the use of tall-man lettering in the proposed proprietary name is inappropriate and should not be used.

2.2.3 *Medication Error Data Selection of Cases*

We searched the FDA Adverse Event Reporting System (FAERS) database using the strategy listed in Table 1 for errors involving the RLD Suprep. The FAERS database search did not retrieve any cases of medication errors.

¹ Michael R. Cohen, *Medication Errors*, 2nd ed., American Pharmacists Association, Washington, D.C., 2007, pp. 89-90.

Table 1: FAERS Search Strategy	
Date	July 2, 2013
Drug Names	*Suprep* (verbatim)
MedDRA Search Strategy	Medication Errors HLT Product Packaging Issues HLT Product Label Issues HLT Product Quality Issues (NEC) HLT

2.2.4 FDA Name Simulation Studies

Seventy-one practitioners participated in DMEPA’s prescription studies. The interpretations did not overlap with any currently marketed products. Nor did the misinterpretations appear or sound similar to any currently marketed products or products pending approval. Twenty participants from the inpatient prescription studies, twenty-five from the outpatient prescription studies, and six from the voice prescription studies interpreted the name correctly as Colprep Kit. The remaining twenty participants interpreted the name incorrectly with two misinterpretations occurring in the inpatient prescription studies, in which the participants failed to interpret the word ‘kit’, and ten misinterpretations occurring in the voice prescription studies, in which the participants misinterpreted the letter “l” as the letter “ld”. These misinterpretations were considered in our analysis (See Appendix B). See Appendix C for the complete listing of interpretations from the verbal and written prescription studies.

2.2.5 Comments from Other Review Disciplines at Initial Review

In response to the OSE, September 10, 2013 e-mail, the Division of Gastroenterology and Inborn Error Products (DGEIP) did not forward any comments or concerns relating to the proposed proprietary name at the initial phase of the review.

2.2.6 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, Colprep Kit. Table 1 lists the names with orthographic, phonetic, or spelling similarity to the proposed proprietary name, Colprep Kit identified by the primary reviewer, the Expert Panel Discussion (EPD), and other review disciplines.

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>
Colcryx	FDA	Colcaps***	FDA	(b) (4)***	FDA
(b) (4)	FDA	ZuraPrep***	FDA	Colazal	FDA
Colyte	FDA	ChloraPrep One Step	FDA	(b) (4) (b) (4)***	FDA
Catapres	FDA	Ciloprest	FDA	CalPlus	FDA
Suprep Bowel Prep Kit	FDA	Cyanokit	FDA	Cysview Kit	FDA
Look and Sound Similar					
	<i>Source</i>		<i>Source</i>	<i>Name</i>	<i>Source</i>
ColPrep Kit***	FDA				

Our analysis of the sixteen names contained in Table 1 considered the information obtained in the previous sections along with their product characteristics. We determined none of the names will pose a risk for confusion as described in Appendices D through E.

2.2.7 Communication of DMEPA’s Analysis at Midpoint of Review

DMEPA communicated our findings to the Division of Gastroenterology and Inborn Error Products (DGEIP) via e-mail on October 23, 2013. At that time we also requested additional information or concerns that could inform our review. Per e-mail correspondence from the Division of Gastroenterology and Inborn Error Products (DGEIP) on October 31, 2013, they stated no additional concerns with the proposed proprietary name, Colprep Kit.

3 CONCLUSIONS

The proposed proprietary name is acceptable from both a promotional and safety perspective.

If you have further questions or need clarifications, please contact Phong Do, OSE project manager, at 301-796-4795.

3.1 COMMENTS TO THE APPLICANT

We have completed our review of the proposed proprietary name, Colprep Kit, and have concluded that this name is acceptable.

If any of the proposed product characteristics as stated in your September 5, 2013 submission are altered, the name must be resubmitted for review.

Additionally, we note that you have presented the proprietary name with the letter ‘P’ capitalized (ColPrep). This mixed case type of presentation is typically reserved for differentiating known look-alike and sound-alike established name pairs or in rare

circumstances for proprietary names to help reduce the risk of wrong drug name errors.² Since Colprep Kit is not a name that has been involved in drug name confusion or wrong drug errors, the capitalization of the letter “P” is inappropriately applied. Please revise the name to be presented in mixed case; i.e Colprep Kit.

² Michael R. Cohen, *Medication Errors*, 2nd ed., American Pharmacists Association, Washington, D.C., 2007, pp. 89-90.

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. *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.

10. *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.

11. *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.

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

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

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

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

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

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

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

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

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

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

17. *Rx List* (www.rxlist.com)

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

18. 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.

19. 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.³

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.

³ 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.⁴

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).

⁴ 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.⁵ 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

⁵ 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, ColPrep Kit	Scripted May Appear as	Spoken May Be Interpreted as
Capital ‘C’	A, G, L, O, U, Q	K, G
lowercase ‘c’	any vowel, l	k, g
lowercase ‘o’	a, e, u, c	oh, owe
lowercase ‘l’	t, b, e	d
lowercase ‘p’	y, g, j, q, s	b, t
lowercase ‘r’	s, n, i, v, u	
lowercase ‘e’	a, o, u, r, c	eh, ah, ae
Capital ‘K’	R, X	C, Qu
lowercase ‘k’	h, x, la	
lowercase ‘i’	l, e	y, ee, ea
lowercase ‘t’	f, i, l, r	d
Letter strings		
ol	d,	
prep	piap, piep, pup, prip, piaf, pief, puf, prif, piay, piey, puy, priy	per, bra, pra
Kit	Xif, Xef, Kif, Icit	Cit, Qit, Keet, Ceet, Kid,

Appendix C: Prescription Simulation Samples and Results

Figure 1. Colprep Kit Study (Conducted on September 13, 2013)

Handwritten Requisition Medication Order	Verbal Prescription
<p><u>Medication Order:</u> <i>Colprep Kit use as directed</i></p>	<p>ColPrep Kit Use as directed #1</p>
<p><u>Outpatient Prescription:</u> <i>Colprep kit use as directed</i></p>	

FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)

190 People Received Study
71 People Responded

Study Name: Colprep Kit

Total	26	22	23	
INTERPRETATION	OUTPATIENT	VOICE	INPATIENT	TOTAL
COL PREP KIT	0	3	0	3
COLD PREP KIT	0	10	0	10
COLD PRET KIT	0	1	0	1
COLPEP KIT	1	0	0	1
COLPREP	0	0	2	2
COLPREP KIT	25	6	20	51
COL-PREP KIT	0	1	0	1
COLPREPKIT	0	1	0	1
COLPRES KIT	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 ColPrep Kit	Failure preventions
1.	Colcaps***	Colchicine	Orthographic	This name was withdrawn by the Applicant for NDA 204820. The Applicant submitted another proprietary name, Mitigare, which has been reviewed and accepted. NDA 204820 received a Complete Response in August 2013.
2.	(b) (4) ***	Colchicine	Orthographic	This name was withdrawn by the Applicant for NDA 204820. The Applicant submitted another proprietary name, Mitigare, which has been reviewed and accepted. NDA 204820 received a Complete Response in August 2013.
3.	ColPrep Kit***	Sodium sulfate, potassium sulfate, magnesium sulfate	Orthographic and Phonetic	The name ColPrep Kit is subject of this review.
4.	(b) (4) (b) (4) ***	Sodium sulfate, potassium sulfate, magnesium sulfate	Orthographic	This name was the second name submitted for this NDA 204553, but was withdrawn by the Applicant.
5.	Catapres	Clonidine	Orthographic	The pair has sufficient orthographic differences.
6.	Ciloprost	Ciloprost	Orthographic	The pair has sufficient orthographic differences.
7.	(b) (4)	Isotonic Salts	Orthographic	This name was submitted for NDA (b) (4) but the application was not approved on February 22, 1985.
8.	ZuraPrep***	(Isopropyl Alcohol, sodium citrate, citric acid, methylparaben, propylparaben, and methylene blue)	Orthographic	This name was part of the pre-IND submission for IND (b) (4) however, the name was not submitted for a proprietary name review.

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.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
1.	<p>Suprep Bowel Prep Kit</p> <p>(Sodium sulfate, potassium sulfate, magnesium sulfate)</p> <p><u>Oral Solution:</u></p> <p>17.5 g/3.13 g/1.6 g</p> <p><u>Usual Dose:</u></p> <p>Split-dose (2-day) oral regimen: Each bottle is administered as 16 ounces of diluted SUPREP solution with an additional 1 quart of water taken orally. The total volume of liquid required for colon cleansing (using two bottles) is 3 quarts (approximately 2.8 L) taken orally prior to the colonoscopy.</p>	<p><u>Orthographic:</u></p> <p>The suffix contains the same letter string ‘prep’ as the proposed name.</p> <p><u>Strength:</u></p> <p>17.5 g/3.13 g/1.6 g</p> <p><u>Frequency of Administration:</u></p> <p>Once evening before colonoscopy and once day of colonoscopy.</p> <p><u>Route of Administration:</u></p> <p>Oral</p> <p><u>Dose:</u></p> <p>Both can be written as UAD</p>	<p><u>Orthographic:</u></p> <p>The name ColPrep yields a different shape since there is an additional upstroke ‘l’ in the name that is absent in Suprep.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
2.	<p>Chloraprep One Step (Chlorhexidine Gluconate and Isopropyl Alcohol)</p> <p><u>Sponge:</u> 2% w/v and 70% v/v</p> <p><u>Usual Dose:</u> Apply applicator to area prior to surgery.</p>	<p><u>Orthographic:</u> The suffix contains the same letter string ‘prep’ as the proposed name.</p> <p><u>Phonetic:</u> The prefix in the two names may sound similar when spoken (‘Chlor’ in Chloraprep vs. ‘Col’ in ColPrep). Additionally, the suffix in both names are pronounced the same.</p> <p><u>Dose:</u> Both can be written as UAD</p>	<p><u>Orthographic:</u> The name Chloraprep yields a different shape since there is an additional upstroke ‘h’ that is absent in the name ColPrep. Additionally, the name Chloraprep (10 letters) appears longer scripted as compared to the name ColPrep (7 letters).</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
3.	<p>Colazal (Balsalazide Disodium)</p> <p><u>Capsule:</u> 750 mg</p> <p><u>Usual Dose:</u> Take 3 capsules three times daily.</p>	<p><u>Orthographic:</u> The prefix contains the same letter string ‘Col’ as the proposed name.</p> <p><u>Route of Administration:</u> Oral</p>	<p><u>Orthographic:</u> The name Colazal yields a different shape since there is an additional upstroke ‘l’ at the end of the name vs. ColPrep has the downstroke ‘p’ in that position. Additionally, the downstroke ‘z’ in the name Colazal is in a different position than the downstroke ‘p’ in the name ColPrep.</p> <p><u>Dose:</u> 3 capsules vs. UAD or First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p> <p><u>Frequency of Administration:</u> Three times daily vs. once in the evening before colonoscopy and once day of colonoscopy.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
4.	<p>Colyte</p> <p>(PEG 3350, sodium sulfate, sodium bicarbonate, NaCl, KCl)</p> <p><u>Powder for oral solution:</u></p> <p>240 g/22.72 g/6.72 g/5.84 g/2.98 g</p> <p><u>Usual Dose:</u></p> <p>240 mL (8 oz.) every 10 minutes.</p>	<p><u>Orthographic:</u></p> <p>The prefix contains the same letter string ‘Col’ as the proposed name.</p> <p><u>Route of Administration:</u></p> <p>Oral</p> <p><u>Dose:</u></p> <p>Both can be written as UAD</p>	<p><u>Orthographic:</u></p> <p>The name Colyte yields a different shape since there is an additional upstroke ‘t’ that is absent in the name ColPrep. Additionally, ColPrep has an additional downstroke ‘p’ at the end of the name.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
5.	<p>Calplus (Calcium carbonate)</p> <p><u>Tablets:</u> 600 mg, 648 mg, 1250 mg, 1500 mg</p> <p><u>Usual Dose:</u> 1) Calcium supplementation: 500 mg to 2 g two to four times/day. 2) Antacid: 1000 mg to 3000 mg as needed.</p>	<p><u>Orthographic:</u> The letter string 'Cal' may appear similar to the letter string 'Col' in the proposed name when scripted.</p> <p><u>Route of Administration:</u> Oral</p>	<p><u>Orthographic:</u> The name ColPrep yields a different shape since there is an additional downstroke 'p' at the end of the name that is absent in the name Calplus. Additionally, the name Calplus has an additional upstroke 'l' that is absent from the name ColPrep.</p> <p><u>Dose:</u> 500 mg to 2 g or 1000 mg to 3000 mg vs. UAD or First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p> <p><u>Strength:</u> There is no overlap in strength or numerical similarity.</p> <p><u>Frequency of Administration:</u> Two to four times daily or as needed vs. once in the evening before colonoscopy and once day of colonoscopy.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
6.	<p>Colcrys (Colchicine)</p> <p><u>Tablet:</u> 0.6 mg</p> <p><u>Usual Dose:</u> 1) 1.2 mg (2 tablets) at first sign of gout flare followed by 0.6 mg (1 tablet) one hour later. 2) 1.2 – 2.4 mg in one or two divided doses.</p>	<p><u>Orthographic:</u> The prefix contains the same letter string ‘Col’ as the proposed name.</p> <p><u>Route of Administration:</u> Oral</p>	<p><u>Orthographic:</u> The name ColPrep yields a different shape since there is an additional downstroke ‘p’ at the end of name that is absent in the name Colcrys. Additionally, the downstroke ‘y’ in the name Colcrys is in a different position than the downstroke ‘p’ in the name ColPrep.</p> <p><u>Dose:</u> 1.2 to 2.4 mg or 1 tablet or 2 tablets vs. UAD or First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p> <p><u>Frequency of Administration:</u> As needed or one or two divided doses vs. once in the evening before colonoscopy and once day of colonoscopy.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
7.	<p>Cyanokit (Hydroxocobalamin for injection)</p> <p><u>Powder for Injection:</u> 25 mg/mL</p> <p><u>Usual Dose:</u> 5 g administered by intravenous infusion over 15 minutes; if needed, second dose of 5 g may be administered by intravenous infusion for total dose of 10 g.</p>	<p><u>Orthographic:</u> Both names begin with the letter 'C' and contains the same word 'kit'.</p>	<p><u>Orthographic:</u> The name ColPrep Kit yields a different shape since there is an additional downstroke 'p' that is absent in the name Cyanokit. Additionally, the downstroke 'y' in the name Cyanokit occurs in the prefix vs. the downstroke 'p' occurs in the infix in the name ColPrep Kit, and the name ColPrep Kit has an additional upstroke 'l' that is absent in the name Cyanokit.</p> <p><u>Dose:</u> 5 g vs. UAD or First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p> <p><u>Frequency of Administration:</u> Once or Twice vs. once in the evening before colonoscopy and once day of colonoscopy.</p>

No.	<p>Proposed name: ColPrep Kit</p> <p>Dosage Form: Powder for Oral Solution</p> <p>Strength: 17.5 g/3.13 g/1.6 g</p> <p>Usual Dose: Split-dose (2-day) oral regimen: First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>	<p>Failure Mode: Incorrect Product Ordered/ Selected/Dispensed or Administered because of Name confusion</p> <p>Causes (could be multiple)</p>	<p>Prevention of Failure Mode</p> <p>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</p>
8.	<p>Cysview Kit (Hexaminolevulinate hydrochloride)</p> <p><u>Intravesical solution:</u> 2 mg/mL</p> <p><u>Usual Dose:</u> Instill 50 mL of reconstituted solution into the emptied bladder via an intravesical catheter.</p>	<p><u>Orthographic:</u> Both names begin with the letter 'C' and contains the same word 'kit'.</p>	<p><u>Orthographic:</u> The name ColPrep Kit yields a different shape since there is an additional downstroke 'p' at the end of the name that is absent in the name Cysview Kit. Additionally, the downstroke 'y' in the name Cysview Kit is in a different position than the downstroke 'p' in the name ColPrep Kit.</p> <p><u>Dose:</u> 50 mL vs. UAD or First bottle containing 22.7 g the evening before the colonoscopy, then the second bottle containing 22.7 g on the morning of the procedure.</p>

APPENDIX F: Results of Search at Drugs @FDA for Proprietary Names containing the Modifier “Kit”

<u><i>Drug Name</i></u>	<u><i>Active Ingredients</i></u>
<u><i>ABILIFY MAINTENA KIT</i></u>	<u><i>ARIPIPRAZOLE</i></u>
<u><i>AMERSCAN MDP KIT</i></u>	<u><i>TECHNETIUM TC-99M MEDRONATE KIT</i></u>
<u><i>ARIDOL KIT</i></u>	<u><i>MANNITOL</i></u>
<u><i>BUPIVACAINE HYDROCHLORIDE KIT</i></u>	<u><i>BUPIVACAINE HYDROCHLORIDE</i></u>
<u><i>CYANOCOBALAMIN CO 57 SCHILLING TEST KIT</i></u>	<u><i>CYANOCOBALAMIN; CYANOCOBALAMIN CO-57; INTRINSIC FACTOR</i></u>
<u><i>CYANOKIT</i></u>	<u><i>HYDROXOCOBALAMIN</i></u>
<u><i>CYSVIEW KIT</i></u>	<u><i>HEXAMINOLEVULINATE HYDROCHLORIDE</i></u>
<u><i>DICOPAC KIT</i></u>	<u><i>CYANOCOBALAMIN; CYANOCOBALAMIN CO-57; CYANOCOBALAMIN CO-58</i></u>
<u><i>EPANED KIT</i></u>	<u><i>ENALAPRIL MALEATE</i></u>
<u><i>GATTEX KIT</i></u>	<u><i>TEDUGLUTIDE RECOMBINANT</i></u>
<u><i>IFEX/MESNEX KIT</i></u>	<u><i>IFOSFAMIDE; MESNA</i></u>
<u><i>IFOSFAMIDE/MESNA KIT</i></u>	<u><i>IFOSFAMIDE; MESNA</i></u>
<u><i>IXEMPRA KIT</i></u>	<u><i>IXABEPILONE</i></u>
<u><i>JEVTANA KIT</i></u>	<u><i>CABAZITAXEL</i></u>
<u><i>LARYNG-O-JET KIT</i></u>	<u><i>LIDOCAINE HYDROCHLORIDE</i></u>
<u><i>LARYNGOTRACHEAL ANESTHESIA KIT</i></u>	<u><i>LIDOCAINE HYDROCHLORIDE</i></u>
<u><i>LIDOSITE TOPICAL SYSTEM KIT</i></u>	<u><i>EPINEPHRINE; LIDOCAINE HYDROCHLORIDE</i></u>
<u><i>LTA II KIT</i></u>	<u><i>LIDOCAINE HYDROCHLORIDE</i></u>
<u><i>LUTREPULSE KIT</i></u>	<u><i>GONADORELIN ACETATE</i></u>
<u><i>LYMPHOSEEK KIT</i></u>	<u><i>TECHNETIUM TC-99M TILMANOCEPT</i></u>
<u><i>MAROIBO KIT</i></u>	<u><i>VINCRISTINE SULFATE</i></u>
<u><i>MERETEK UBT KIT (W/ PRANACTIN)</i></u>	<u><i>UREA C-13</i></u>
<u><i>NEO TECT KIT</i></u>	<u><i>TECHNETIUM TC-99M DEPREOTIDE</i></u>
<u><i>PEDIATRIC LTA KIT</i></u>	<u><i>LIDOCAINE HYDROCHLORIDE</i></u>

<u>PREVEN EMERGENCY CONTRACEPTIVE KIT</u>	<u>ETHINYL ESTRADIOL; LEVONORGESTREL</u>
<u>PYTEST KIT</u>	<u>UREA, C-14</u>
<u>ROCEPHIN KIT</u>	<u>CEFTRIAXONE SODIUM; LIDOCAINE</u>
<u>RUBRATOPE-57 KIT</u>	<u>COBALT CHLORIDE CO-57; CYANOCOBALAMIN; CYANOCOBALAMIN CO-57; INTRINSIC FACTOR</u>
<u>RUBRATOPE-60 KIT</u>	<u>COBALT CHLORIDE CO-60; CYANOCOBALAMIN; CYANOCOBALAMIN CO-60; INTRINSIC FACTOR</u>
<u>SODIUM POLYPHOSPHATE-TIN KIT</u>	<u>TECHNETIUM TC-99M POLYPHOSPHATE KIT</u>
<u>SUPREP BOWEL PREP KIT</u>	<u>MAGNESIUM SULFATE ANHYDROUS; POTASSIUM SULFATE; SODIUM SULFATE</u>
<u>TECHNESCAN PYP KIT</u>	<u>TECHNETIUM TC-99M PYROPHOSPHATE KIT</u>
<u>TECHNETIUM TC 99M ALBUMIN AGGREGATED KIT</u>	<u>TECHNETIUM TC-99M ALBUMIN AGGREGATED KIT</u>
<u>TECHNETIUM TC 99M DIPHOSPHONATE-TIN KIT</u>	<u>TECHNETIUM TC-99M ETIDRONATE KIT</u>

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/s/

LISA V KHOSLA
10/31/2013

LUBNA A MERCHANT
10/31/2013

**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
Division of Medication Error Prevention and Analysis**

Proprietary Name Review

Date: July 22, 2013

Reviewer: Lisa V. Khosla, PharmD, M.H.A
Division of Medication Error Prevention and Analysis

Team Leader: Lubna Merchant, M.S., PharmD
Division of Medication Error Prevention and Analysis

Drug Name(s) and Strength(s): (b) (4) (Sodium Sulfate, Potassium Sulfate,
Magnesium Sulfate) Powder for Oral Solution
17.5 g/3.13 g/1.6 g per bottle

Application Type/Number: NDA 204553

Applicant/Sponsor: Gator Pharmaceuticals

OSE RCM #: 2013-1556

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/s/

LISA V KHOSLA
07/22/2013

LUBNA A MERCHANT
07/22/2013