

**CENTER FOR DRUG EVALUATION AND  
RESEARCH**

*APPLICATION NUMBER:*

**205836Orig1s000**

**205837Orig1s000**

**205838Orig1s000**

**PROPRIETARY NAME REVIEW(S)**

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**PROPRIETARY NAME REVIEW**

Division of Medication Error Prevention and Analysis (DMEPA)  
Office of Medication Error Prevention and Risk Management (OMEPRM)  
Office of Surveillance and Epidemiology (OSE)  
Center for Drug Evaluation and Research (CDER)

**\*\*\* This document contains proprietary information that cannot be released to the public\*\*\***

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**Date of This Review:** February 21, 2015

**Application Type and Number:** NDAs 205836, 205838, 205837

**Product Name and Strength:** Briviact (brivaracetam)  
Tablets 10 mg, 25 mg, 50 mg, 75 mg and 100 mg  
Oral Solution 10 mg/mL  
Intravenous injection 50 mg/5 mL

**Product Type:** Single Product

**Rx or OTC:** Rx

**Applicant/Sponsor Name:** UCB, Inc.

**Panorama #:** 2014-45369, 2014-45371, 2014-45370

**DMEPA Primary Reviewer:** Justine Harris, RPh

**DEMPA Team Leader:** Danielle Harris, PharmD, BCPS

**DMEPA Associate Director:** Irene Z. Chan, PharmD, BCPS

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## 1 INTRODUCTION

This review evaluates the proposed proprietary name, Briviact, from a safety and misbranding perspective. The sources and methods used to evaluate the proposed name are outlined in the reference section and Appendix A respectively. The Applicant did not submit an external name study.

### 1.1 REGULATORY HISTORY

The Applicant previously submitted the proposed proprietary name, Briviact on April 19, 2012 for INDs 070205, (b) (4), 103908, and 110606. The Division of Medication Error Prevention and Analysis (DMEPA) found the name, Briviact conditionally acceptable in OSE Review # 2012-963, dated October 11, 2012.

The Applicant submitted the name, Briviact, for review under the NDAs on November 19, 2014. The product characteristics have not changed, (b) (4) available as a 10 mg/mL oral solution only.

### 1.2 PRODUCT INFORMATION

The following product information is provided in the November 19, 2014 proprietary name submission.

- Intended Pronunciation: briv-ee-akt
- Active Ingredient: brivaracetam
- Indication of Use: Adjunctive therapy in the treatment of partial onset seizures in patients 16 years of age and older with epilepsy
- Route of Administration: oral and intravenous
- Dosage Form: tablets, oral solution and injection
- Strength: Tablets: 10 mg, 25 mg, 50 mg, 75 mg and 100 mg tablets;  
Oral Solution: 10 mg/mL  
Intravenous injection: 50 mg/5mL vial
- Dose and Frequency: Starting dose 50 mg twice daily. Based on individual patient response, the dose may be adjusted between 25 mg twice daily and 100 mg twice daily. Not recommended in end-stage renal disease patients undergoing dialysis; reduce dose in patients with hepatic impairment. When discontinuing, reduce dosage gradually to minimize the risk of increased seizure frequency and status epilepticus; for intravenous injection: Can be administered intravenously without further dilution or may be mixed with diluents and other compounds as listed in the PI; dosage is the same as oral
- How Supplied: Bottles of 60 tablets; oral solution 300 mL amber glass bottles; injection supplied as single- use 5 mL vial

- Storage: Store at 25°C [77°F]; excursions are permitted to 15°C to 30°C [59°F to 86°F]

## **2 RESULTS**

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

### **2.1 MISBRANDING ASSESSMENT**

The Office of Prescription Drug Promotion (OPDP) determined that the proposed name would not misbrand the proposed product. DMEPA and the Division of Neurology Products (DNP) concurred with the findings of OPDP's 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***

There is no USAN stem present in the proprietary name<sup>1</sup>.

#### ***2.2.2 Components of the Proposed Proprietary Name***

The Applicant did not provide a derivation or intended meaning for the proposed name, Briviact in their submission. 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.

We note the Applicant's use of the same name for three different dosage forms (oral tablet, oral liquid and injection). The proposed dosing does not differ between the various dosage forms, which minimizes the risk for improper dose errors if the wrong dosage form is inadvertently dispensed or administered. While there is a risk for a patient receiving the wrong dosage form for a product, we believe that this can be appropriately mitigated through labels and labeling. Additionally, the convention of using the same proprietary name for different dosage forms of a drug has been utilized in the marketplace and we do not have any concerns with at this time.

#### ***2.2.3 FDA Name Simulation Studies***

Two hundred and eighty practitioners participated in DMEPA's prescription studies. The responses did not overlap with any currently marketed products nor did the responses sound or look similar to any currently marketed products or any products in the pipeline. Appendix B contains the results from the verbal and written prescription studies.

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<sup>1</sup>USAN stem search conducted on January 6, 2015.

#### 2.2.4 Comments from Other Review Disciplines at Initial Review

In response to the OSE, December 24, 2014 e-mail, the Division of Neurology Products (DNP) did not forward any comments or concerns relating to the proposed proprietary name at the initial phase of the review.

#### 2.2.5 Phonetic and Orthographic Computer Analysis (POCA) Search Results

Table 1 lists the number of names with the combined orthographic and phonetic score of  $\geq 50\%$  retrieved from our POCA search<sup>2</sup> organized as highly similar, moderately similar or low similarity for further evaluation. Table 1 also includes names identified from the FDA prescription simulation.

<b>Table 1. POCA Search Results</b>	<b>Number of Names</b>
Highly similar name pair: combined match percentage score $\geq 70\%$	3
Moderately similar name pair: combined match percentage score $\geq 50\%$ to $\leq 69\%$	151
Low similarity name pair: combined match percentage score $\leq 49\%$	0

#### 2.2.6 Names with Potential Orthographic, Spelling, and Phonetic Similarities that overlap in strength

The proposed product, Briviact will be available in strength of 75 mg. Since this is not a commonly marketed strength, we searched the Pragmatic® Regulated Product Labeling Listing and Registration System (PR<sup>o</sup>PLLR<sup>TM</sup>) database to identify any names with potential orthographic, spelling, and phonetic similarities with Briviact that were not identified in POCA, and found to have an overlap in strength with Briviact. The search results identified no names with orthographic or phonetic similarities.

<b>Table 1A. (PR<sup>o</sup>PLLR<sup>TM</sup>) Search Results</b>	<b>POCA score</b>
N/A	

<sup>2</sup> POCA search conducted on January 6, 2015.

### ***2.2.7 Safety Analysis of Names with Potential Orthographic, Spelling, and Phonetic Similarities***

Our analysis of the 154 names contained in Table 1 determined none of the names pose a risk for confusion as described in Appendices C through H.

### ***2.2.8 Communication of DMEPA's Analysis at Midpoint of Review***

DMEPA communicated our findings to the Division of Neurology Products (DNP) via e-mail on January 29, 2015. At that time we also requested additional information or concerns that could inform our review. Per e-mail correspondence from the Division of Neurology Products (DNP) on February 10, 2015, they stated no additional concerns with the proposed proprietary name, Briviact.

## **3 CONCLUSIONS**

The proposed proprietary name is acceptable.

If you have further questions or need clarifications, please contact Ermias Zerislassie, OSE project manager, at 301-796- 0097.

### **3.1 COMMENTS TO THE APPLICANT**

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

If any of the proposed product characteristics as stated in your November 19, 2014 submission are altered prior to approval of the marketing application, the name must be resubmitted for review.

## 4 REFERENCES

1. ***USAN Stems*** (<http://www.ama-assn.org/ama/pub/physician-resources/medical-science/united-states-adopted-names-council/naming-guidelines/approved-stems.page>)

USAN Stems List contains all the recognized USAN stems.

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

POCA is a system that FDA designed. As part of the name similarity assessment, POCA is used to evaluate proposed names via a phonetic and orthographic algorithm. The proposed proprietary name is converted into its phonemic representation before it runs through the phonetic algorithm. Likewise, an orthographic algorithm exists that operates in a similar fashion. POCA is publicly accessible.

### ***Drugs@FDA***

Drugs@FDA is an FDA Web site that contains most of the drug products approved in the United States 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* and *generic drugs*; *therapeutic biological products*, *prescription* and *over-the-counter* human drugs; and *discontinued drugs* (see Drugs @ FDA Glossary of Terms, available at [http://www.fda.gov/Drugs/InformationOnDrugs/ucm079436.htm#ther\\_biological](http://www.fda.gov/Drugs/InformationOnDrugs/ucm079436.htm#ther_biological)).

### ***RxNorm***

RxNorm contains the names of prescription and many OTC drugs available in the United States. RxNorm includes generic and branded:

- Clinical drugs – pharmaceutical products given to (or taken by) a patient with therapeutic or diagnostic intent
- Drug packs – packs that contain multiple drugs, or drugs designed to be administered in a specified sequence

Radiopharmaceuticals, contrast media, food, dietary supplements, and medical devices, such as bandages and crutches, are all out of scope for RxNorm (<http://www.nlm.nih.gov/research/umls/rxnorm/overview.html#>).

### ***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.

## APPENDICES

### Appendix A

FDA's Proprietary Name Risk Assessment evaluates proposed proprietary names for misbranding and safety concerns.

1. **Misbranding Assessment:** For prescription drug products, OPDP assesses the name for misbranding concerns. . For over-the-counter (OTC) drug products, the misbranding assessment of the proposed name is conducted by DNCE. OPDP or DNCE evaluates proposed proprietary names to determine if the name is false or misleading, such as by making misrepresentations with respect to safety or efficacy. For example, a fanciful proprietary name may misbrand a product by suggesting that it has some unique effectiveness or composition when it does not (21 CFR 201.10(c)(3)). OPDP or DNCE provides their opinion to DMEPA for consideration in the overall acceptability of the proposed proprietary name.
2. **Safety Assessment:** The safety assessment is conducted by DMEPA, and includes the following:
  - a. Preliminary Assessment: 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.) See prescreening checklist below in Table 2\*. 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.<sup>3</sup>

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<sup>3</sup> National Coordinating Council for Medication Error Reporting and Prevention.  
<http://www.nccmerp.org/aboutMedErrors.html>. Last accessed 10/11/2007.

**\*Table 2- Prescreening Checklist for Proposed Proprietary Name**

	Answer the questions in the checklist below. Affirmative answers to any of these questions indicate a potential area of concern that should be carefully evaluated as described in this guidance.
<b>Y/N</b>	<b>Is the proposed name obviously similar in spelling and pronunciation to other names?</b>
	Proprietary names should not be similar in spelling or pronunciation to proprietary names, established names, or ingredients of other products.
<b>Y/N</b>	<b>Are there medical and/or coined abbreviations in the proprietary name?</b>
	Proprietary names should not incorporate medical abbreviations (e.g., QD, BID, or others commonly used for prescription communication) or coined abbreviations that have no established meaning.
<b>Y/N</b>	<b>Are there inert or inactive ingredients referenced in the proprietary name?</b>
	Proprietary names should not incorporate any reference to an inert or inactive ingredient in a way that might create an impression that the ingredient's value is greater than its true functional role in the formulation (21 CFR 201.10(c)(4)).
<b>Y/N</b>	<b>Does the proprietary name include combinations of active ingredients?</b>
	Proprietary names of fixed combination drug products should not include or suggest the name of one or more, but not all, of its active ingredients (see 21 CFR 201.6(b)).
<b>Y/N</b>	<b>Is there a United States Adopted Name (USAN) stem in the proprietary name?</b>
	Proprietary names should not incorporate a USAN stem in the position that USAN designates for the stem.
<b>Y/N</b>	<b>Is this proprietary name used for another product that does not share at least one common active ingredient?</b>
	Drug products that do not contain at least one common active ingredient should not use the same (root) proprietary name.
<b>Y/N</b>	<b>Is this a proprietary name of a discontinued product?</b>
	Proprietary names should not use the proprietary name of a discontinued product if that discontinued drug product does not contain the same active ingredients.

- b. Phonetic and Orthographic Computer Analysis (POCA): Following the preliminary screening of the proposed proprietary name, DMEPA staff evaluates the proposed name against potentially similar names. In order to identify names with potential similarity to the proposed proprietary name, DMEPA enters the proposed proprietary name in POCA and queries the name against the following drug reference databases, Drugs@fda, CernerRxNorm, and names in the review pipeline using a 50% threshold in POCA. DMEPA reviews the combined orthographic and phonetic matches and group the names into one of the following three categories:
- Highly similar pair: combined match percentage score  $\geq 70\%$ .
  - Moderately similar pair: combined match percentage score  $\geq 50\%$  to  $\leq 69\%$ .
  - Low similarity: combined match percentage score  $\leq 49\%$ .

Using the criteria outlined in the check list (Table 3-5) that corresponds to each of the three categories (highly similar pair, moderately similar pair, and low similarity), DMEPA evaluates the name pairs to determine the acceptability or non-acceptability of a proposed proprietary name. The intent of these checklists is to increase the transparency and predictability of the safety determination of whether a proposed name is vulnerable to confusion from a look-alike or sound-alike perspective. Each bullet below corresponds to the name similarity category cross-references the respective table that addresses criteria that DMEPA uses to determine whether a name presents a safety concern from a look-alike or sound-alike perspective.

- For highly similar names, differences in product characteristics often cannot mitigate the risk of a medication error, including product differences such as strength and dose. Thus, proposed proprietary names that have a combined score of  $\geq 70$  percent are at risk for a look-alike sound-alike confusion which is an area of concern (See Table 3).
- Moderately similar names with overlapping or similar strengths or doses represent an area for concern for FDA. The dosage and strength information is often located in close proximity to the drug name itself on prescriptions and medication orders, and it can be an important factor that either increases or decreases the potential for confusion between similarly named drug pairs. The ability of other product characteristics to mitigate confusion (e.g., route, frequency, dosage form, etc.) may be limited when the strength or dose overlaps. We review such names further, to determine whether sufficient differences exist to prevent confusion. (See Table 4).
- Names with low similarity that have no overlap or similarity in strength and dose are generally acceptable (See Table 5) unless there are data to suggest that the name might be vulnerable to confusion (e.g., prescription simulation study suggests that the name is likely to be misinterpreted as a marketed product). In these instances, we would reassign a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

- c. FDA Prescription Simulation Studies: DMEPA staff also conducts a prescription simulation studies using FDA health care professionals.

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.

- d. 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.

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.

**Table 3. Highly Similar Name Pair Checklist (i.e., combined Orthographic and Phonetic score is  $\geq 70\%$ ).**

Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names may render the names less likely to confusion, provided that the pair do not share a common strength or dose.			
<u>Orthographic Checklist</u>		<u>Phonetic Checklist</u>	
Y/N	Do the names begin with different first letters? <i>Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.</i>	Y/N	Do the names have different number of syllables?
Y/N	Are the lengths of the names dissimilar* when scripted?  <i>*FDA considers the length of names different if the names differ by two or more letters.</i>	Y/N	Do the names have different syllabic stresses?
Y/N	Considering variations in scripting of some letters (such as <i>z</i> and <i>f</i> ), is there a different number or placement of upstroke/downstroke letters present in the names?	Y/N	Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?
Y/N	Is there different number or placement of cross-stroke or dotted letters present in the names?	Y/N	Across a range of dialects, are the names consistently pronounced differently?
Y/N	Do the infixes of the name appear dissimilar when scripted?		
Y/N	Do the suffixes of the names appear dissimilar when scripted?		

**Table 4: Moderately Similar Name Pair Checklist (i.e., combined score is  $\geq 50\%$  to  $\leq 69\%$ ).**

<p>Step 1</p>	<p>Review the DOSAGE AND ADMINISTRATION and HOW SUPPLIED/STORAGE AND HANDLING sections of the prescribing information (or for OTC drugs refer to the Drug Facts label) to determine if strengths and doses of the name pair overlap or are very similar. Different strengths and doses for products whose names are moderately similar may decrease the risk of confusion between the moderately similar name pairs. Name pairs that have overlapping or similar strengths or doses have a higher potential for confusion and should be evaluated further (see Step 2). Because the strength or dose could be used to express an order or prescription for a particular drug product, overlap in one or both of these components would be reason for further evaluation.</p> <p>For single strength products, also consider circumstances where the strength may not be expressed.</p> <p>For any i.e. drug products comprised of more than one active ingredient, consider whether the strength or dose may be expressed using only one of the components.</p> <p>To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion:</p> <ul style="list-style-type: none"> <li>○ Alternative expressions of dose: 5 mL may be listed in the prescribing information, but the dose may be expressed in metric weight (e.g., 500 mg) or in non-metric units (e.g., 1 tsp, 1 tablet/capsule). Similarly, a strength or dose of 1000 mg may be expressed, in practice, as 1 g, or vice versa.</li> <li>○ Trailing or deleting zeros: 10 mg is similar in appearance to 100 mg which may potentiate confusion between a name pair with moderate similarity.</li> <li>○ Similar sounding doses: 15 mg is similar in sound to 50 mg</li> </ul>
<p>Step 2</p>	<p>Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names may reduce the likelihood of confusion for moderately similar names <b><u>with</u></b> overlapping or similar strengths or doses.</p>

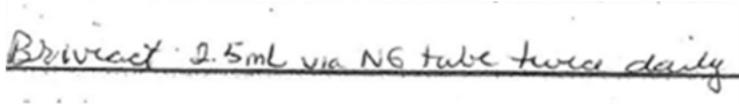
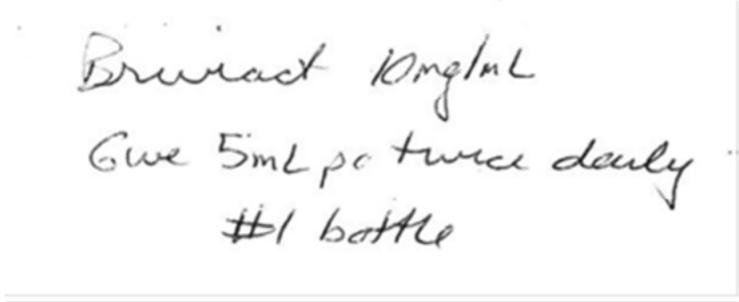
<p>Orthographic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• Do the names begin with different first letters?</li> </ul> <p>Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.</p> <ul style="list-style-type: none"> <li>• Are the lengths of the names dissimilar* when scripted?</li> </ul> <p>*FDA considers the length of names different if the names differ by two or more letters.</p> <ul style="list-style-type: none"> <li>• Considering variations in scripting of some letters (such as <i>z</i> and <i>f</i>), is there a different number or placement of upstroke/downstroke letters present in the names?</li> <li>• Is there different number or placement of cross-stroke or dotted letters present in the names?</li> <li>• Do the infixes of the name appear dissimilar when scripted?</li> <li>• Do the suffixes of the names appear dissimilar when scripted?</li> </ul>	<p>Phonetic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• Do the names have different number of syllables?</li> <li>• Do the names have different syllabic stresses?</li> <li>• Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?</li> <li>• Across a range of dialects, are the names consistently pronounced differently?</li> </ul>
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**Table 5: Low Similarity Name Pair Checklist (i.e., combined score is  $\leq 49\%$ ).**

In most circumstances, these names are viewed as sufficiently different to minimize confusion. Exceptions to this would occur in circumstances where, for example, there are data that suggest a name with low similarity is nonetheless misinterpreted as a marketed product name in a prescription simulation study. In such instances, FDA would reassign a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

**Appendix B: Prescription Simulation Samples and Results**

**Figure 1. Briviact Oral Solution Study (Conducted on December 29, 2014)**

Handwritten Requisition Medication Order	Verbal Prescription
<p data-bbox="188 764 428 800"><u>Medication Order:</u></p> 	<p data-bbox="1068 764 1317 800">Briviact 10 mg/mL</p> <p data-bbox="1029 819 1357 854">Give 5 mL po twice daily</p> <p data-bbox="1073 871 1265 907">Disp # 1 bottle</p>
<p data-bbox="188 938 500 974"><u>Outpatient Prescription:</u></p> 	

**Figure 2. Briviact Injection Study (Conducted on January 5, 2015)**

Handwritten Requisition Medication Order	Verbal Prescription
<p><u>Medication Order:</u></p> <p>Briviact 100mg IV BID</p>	<p>Briviact 50 mg/5mL injection</p> <p>Disp # 2</p> <p>Bring to clinic</p>
<p><u>Outpatient Prescription:</u></p> <p>Briviact 50mg/5mL</p> <p>Bring to clinic</p> <p>#2</p>	

**Figure 3. Briviact Oral Tablets Study (Conducted on January 9, 2015)**

Handwritten Requisition Medication Order	Verbal Prescription
<p><u>Medication Order:</u></p> <p>Briviact 25mg twice daily</p>	<p>Briviact 50 mg</p> <p>One tablet twice daily</p> <p>Disp # 60</p>
<p><u>Outpatient Prescription:</u></p> <p>Briviact 50mg</p> <p>1 BID</p> <p># 60</p>	

**FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)**

**Briviact oral solution conducted December 29, 2014**

252 People Received Study  
99 People Responded

Study Name: Briviact

INTERPRETATION	OUTPATIENT	VOICE	INPATIENT	TOTAL
ABRIVIAC	0	1	0	1
BERVIAC	0	1	0	1
BREURACT 10MG/ML	1	0	0	1
BREVIAC	0	7	0	7
BREVIACT	14	1	0	15
BREVIAT	0	4	0	4
BRIVAC	0	1	0	1
BRIVACET	0	0	1	1
BRIVACT	0	0	5	5
BRIVEICET	0	0	1	1
BRIVIAC	0	1	0	1
BRIVIACT	10	8	26	44
BRIVIAK	0	2	0	2
BRIVIAT	0	3	0	3
BRIVICET	0	0	1	1
BRIVOCT	0	0	1	1
BRUIACT	1	0	0	1
BRUIRACT	1	0	0	1
BRURIACT	1	0	0	1
BRUVIACT	6	0	0	6
ILLEGIBLE	1	0	0	1

**FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)**

**Briviact injection conducted January 5, 2015**

252 People Received Study  
104 People Responded

**Study Name: Briviact**

INTERPRETATION	OUTPATIENT	VOICE	INPATIENT	TOTAL
BARIACT	0	0	1	1
BEREVAC	0	1	0	1
BERVIACT	0	2	0	2
BIVIACT	0	0	1	1
BRAVIACT	0	0	1	1
BREVIAC	0	1	0	1
BREVIAC	0	2	0	2
BREVIACT	0	15	2	17
BREVIAT	0	1	0	1
BRIVACT	1	0	1	2
BRIVIACT	31	4	27	62
BRIVIATT	0	1	0	1
BRIVICAT	1	0	0	1
BRVICET	1	0	0	1
BRVINET	1	0	0	1
BRVIOCT	1	0	0	1
BRUVIACT	0	1	0	1
BRVIACT	0	0	1	1
BRYVIACT	0	1	0	1
PURVIAK	0	1	0	1
REVIACT 50MG/5ML INJ	0	1	0	1
RIVIACT	0	2	0	2
VEDIAC	0	1	0	1

**FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)**

**Briviact oral tablets conducted January 9, 2015**

253 People Received Study  
77 People Responded

Study Name: Briviact

INTERPRETATION	OUTPATIENT	VOICE	INPATIENT	TOTAL
BREDIACT	0	1	0	1
BREVIACT	0	0	1	1
BREVIAT	0	1	0	1
BRIDIACK	0	1	0	1
BRIDIACT	0	3	0	3
BRIMIACT	0	0	1	1
BRINIACT	0	1	0	1
BRITIA	0	1	0	1
BRITIACT	0	1	0	1
BRIVIACT	20	13	27	60
BRIVIOCT	0	0	1	1
BRIVLACT	3	0	0	3
BRUVIACT	0	0	2	2

**Appendix C: Highly Similar Names (e.g., combined POCA score is  $\geq 70\%$ )**

No.	Proposed name: Briviact Strength(s): 10 mg, 25 mg, 50 mg, 75 mg and 100 mg tablets; 10 mg/mL oral solution and 50 mg/5mL vial Usual Dose: Starting dose 50 mg twice daily. Based on patient response, the dose may be adjusted between 25 mg twice daily and 100 mg twice daily.	POCA Score (%)	Orthographic and/or phonetic differences in the names sufficient to prevent confusion  Other prevention of failure mode expected to minimize the risk of confusion between these two names.
1.	Briviact	100	Subject of this review
2.	Bravecto	74	Veterinary product
3.	Brovex CT	70	Discontinued product and no generics available

**Appendix D: Moderately Similar Names (e.g., combined POCA score is  $\geq 50\%$  to  $\leq 69\%$ ) with no overlap or numerical similarity in Strength and/or Dose**

No.	Name	POCA Score (%)
1.	Brevicon	68
2.	Corifact	64
3.	Breezee Mist	61
4.	Brilinta	60
5.	(b) (4) ***	60
6.	Bionect	56
7.	Brovana	56
8.	Duetact	56
9.	Iprivask	55
10.	Brevoxyl	54
11.	Triacet	54
12.	Triacort	54
13.	Trivase	54
14.	Blistex	52

15.	(b) (4)***	52
16.	bromfenac	52
17.	Quninact	52
18.	Brevicon 28-day	51
19.	Trezix	51
20.	Brioschi	50
21.	Periactin	50
22.	Privine	50
23.	Triacting	50
24.	Brontex	53
25.	Ravicti	60

**Appendix E:** Moderately Similar Names (e.g., combined POCA score is  $\geq 50\%$  to  $\leq 69\%$ ) with overlap or numerical similarity in Strength and/or Dose

No.	<p><b>Proposed name: Briviact</b>  <b>Strength(s): 10 mg, 25 mg, 50 mg, 75 mg and 100 mg tablets; 10 mg/mL oral solution and 50 mg/5mL vial</b>  <b>Usual Dose: : Starting dose 50 mg twice daily. Based on patient response, the dose may be adjusted between 25 mg twice daily and 100 mg twice daily.</b></p>	<p><b>POCA Score (%)</b></p>	<p><b>Prevention of Failure Mode</b>  <b>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</b></p>
1.	Bilivist	67	<p>The infixes of this name pair have sufficient orthographic differences                      The first and third syllables of this name pair sound different</p>
2.	Brevital	62	<p>The suffixes of this name pair have sufficient orthographic differences                      The third syllables of this name pair sound different</p>
3.	Brevibloc	60	<p>The suffixes of this name pair have sufficient orthographic differences                      The third syllables of this name pair sound different</p>
4.	Bridion***	58	<p>The infixes and suffixes of this name pair have sufficient orthographic differences                      The second and third syllables of this name pair sound different</p>
5.	Doribax	58	<p>The infixes and suffixes of this name pair have sufficient orthographic differences                      The first and third syllables of this name pair sound different</p>
6.	(b) (4) ***	56	<p>The infixes of this name pair have sufficient orthographic differences                      The first syllables of this name pair sound different</p>
7.	Grisactin	56	<p>The suffixes of this name pair have sufficient orthographic differences</p>

			The first and third syllables of this name pair sound different
8.	Promacta	56	The suffixes of this name pair have sufficient orthographic differences The first, second, and third syllables of this name pair sound different
9.	beractant	54	The infixes of this name pair have sufficient orthographic differences The second and third syllables of this name pair sound different
10.	Benzacot	53	The infixes of this name pair have sufficient orthographic differences The first and second syllables of this name pair sound different
11.	Berinert	52	The suffixes of this name pair have sufficient orthographic differences The first and third syllables of this name pair sound different
12.	Bivigam	52	The suffixes of this name pair have sufficient orthographic differences The third syllables of this name pair sound different
13.	Brintellix	52	The infixes and suffixes of this name pair have sufficient orthographic differences The second syllables of this name pair sound different
14.	Benicar HCT	50	The suffixes of this name pair have sufficient orthographic differences The first and third syllables of this name pair sound different
15.	(b) (4) ***	50	The infixes and suffixes of this name pair have sufficient orthographic differences The first and third syllables of this name pair sound different
16.	Varivax	59	The prefixes and suffixes of this name pair have sufficient orthographic differences The first and third syllables of this name pair sound different

**Appendix F:** Low Similarity Names (e.g., combined POCA score is  $\leq 49\%$ )

No.	Name	POCA Score (%)
1.	N/A	

**Appendix G:** Names not likely to be confused or not used in usual practice settings for the reasons described.

No.	Name	POCA Score (%)	Failure preventions
1.	Britaject	66	International product marketed in Cz and Norway
2.	Brom-A-Cot	66	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
3.	Brovex ADT	66	Formerly marketed in the US; no generic products available
4.	Brovex	65	Formerly marketed in the US; no generic products available
5.	Dryvax	64	Formerly marketed product (small pox vaccine)
6.	Brovex D	62	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
7.	Brovex CB	60	Formerly marketed in the US; no generic products available
8.	Brovex HC	60	Per Redbook database,

			product deactivated and no generics available
9.	Brovex SR	60	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
10.	Uritact	59	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
11.	Bromax	58	International product marketed in Portugal
12.	Previcox	58	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
13.	Brevidil	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
14.	Britiazim	56	International product formerly marketed in UK
15.	Broncot	56	International product marketed in Chile
16.	Duract	56	Per Redbook database, product deactivated and no generics available.
17.	Suprefact	56	International product marketed in numerous foreign countries
18.	Borofax	54	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
19.	(b) (4) ***	54	Name withdrawn by the Applicant and the product

			was approved under proprietary name Bridion OSE # 2014-40699
20.	Brovex DM	54	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
21.	Brovex PB	54	Formerly marketed in the US; no generic products available
22.	Brovex PB C	54	Formerly marketed in the US; no generic products available
23.	Brovex PBC	54	Formerly marketed in the US; no generic products available
24.	Brovex PD	54	Formerly marketed in the US; no generic products available
25.	Perifix	54	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
26.	Refacto	54	Per Redbook database, product deactivated and no generics available
27.	Triactin	54	Per Redbook database, product deactivated and no generics available
28.	Bromatapp	53	Per Redbook database, product deactivated and no generics available
29.	Bromates	53	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug.databases
30.	Brovex ADM	53	Name identified in RxNorm database. Unable to find

			product characteristics in commonly used drug databases.
31.	(b) (4) ***	53	This is the secondary proposed proprietary name and product approved under name Gadavist OSE # 2011-406
32.	Bidhist	52	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
33.	Brevidil M	52	International product formerly marketed in UK
34.	Brivudine	52	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
35.	Broflex	52	International product formerly marketed in UK and India
36.	Bronitin	52	Per Redbook database, product deactivated and no generics available
37.	Burinex	52	International product marketed in numerous foreign countries
38.	Brevicon 21-day	51	Discontinued per Drugs @ FDA ; no generics available
39.	Bromatan	51	Name identified in RxNorm database Unable to find product characteristics in commonly used drug databases
40.	B-12 resin	50	Name identified in RxNorm database Unable to find product characteristics in commonly used drug databases

41.	(b) (4)***	50	Proposed proprietary name found unacceptable by DMEPA. Name withdrawn by the Applicant
42.	(b) (4)***	50	Name identified in names entered by SE database. Unable to find product characteristics in internal database
43.	(b) (4)***	50	This is a secondary proposed proprietary name and the product was approved under proprietary name Evekeo***2013-2461
44.	(b) (4)***	50	Proposed Proprietary Name found unacceptable by DMEPA (OSE# 2012-2846). Product approved under new proprietary name Fetzima***
45.	Poly Pact	50	Name identified in RxNorm database Unable to find product characteristics in commonly used drug databases

**Appendix H:** Names not likely to be confused due to notable spelling, orthographic and phonetic differences.

No.	Name	POCA Score (%)
1.	Atrovent	52
2.	Cartia XT	50
3.	Darvocet	51
4.	Diltia XT	56
5.	Diovan HCT	52
6.	Dramoject	52
7.	Drihist	60
8.	Drymax	54

9.	Durabac	50
10.	Dura-Gest	50
11.	Duranest	50
12.	Duratest	50
13.	Duravent	60
14.	Dura-Vent	60
15.	Dura-VentA	50
16.	Evict	52
17.	Freeze It	50
18.	KBrovet	60
19.	Mapravant	50
20.	Pavacot	56
21.	Praluent	50
22.	Predacort 50	52
23.	Predaject-50	54
24.	Predicort-50	50
25.	Pred-Ject-50	54
26.	Prednicot	51
27.	Prefest	50
28.	Prevacid	56
29.	Prevalite	50
30.	Prevantics	50
31.	Preven EC	54
32.	Prevident	59
33.	Prevpac	56
34.	Prezista	52
35.	Prialt	50
36.	Pro-Fast	56
37.	Promacet	51
38.	Promacot	56
39.	Propacet	51

40.	Propacet 100	51
41.	Pro-Vent	57
42.	Provisc	59
43.	Rapi-Ject	53
44.	Renovist	52
45.	Rybix	50
46.	Rydapt	50
47.	Serevent	52
48.	Tranilast	54
49.	Travatant	51
50.	Tri Vent DM	50
51.	Tri Vent HC	50
52.	Triamcot	51
53.	Triatex	50
54.	Triferic	52
55.	Trilocot	52
56.	Tripohist	50
57.	Trusopt	50
58.	Ultravist	53
59.	Ultravist 150	53
60.	Ultravist 240	53
61.	Ultravist 300	53
62.	Ultravist 370	53
63.	Viracept	55
64.	Viravan-T	57
65.	Vivactil	55

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/s/  
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02/21/2015

IRENE Z CHAN  
02/22/2015