Referencing Approved Drug Products in ANDA Submissions

Guidance for Industry

DRAFT GUIDANCE

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U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER)

> January 2017 Generics

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U.S. Department of Health and Human Services
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Referencing Approved Drug Products in ANDA Submissions Guidance for Industry¹

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

I. INTRODUCTION

This guidance is intended to provide information to potential applicants on how to identify a reference listed drug (RLD), reference standard, and the basis of submission in an abbreviated new drug application (ANDA) submission.²

Section 505(j) of the Federal Food, Drug, and Cosmetic Act (FD&C Act) permits any person to submit to the Food and Drug Administration (FDA or the Agency) an ANDA to seek approval to market a generic drug.³ FDA's regulations use certain terms for products that relate to an ANDA. In general, to obtain approval of an ANDA for a generic drug, an ANDA applicant first must identify the previously approved drug product it seeks to duplicate, i.e., the *reference listed drug (RLD)*, and must show, among other things, that the generic drug is bioequivalent to the RLD. A *reference standard* selected by FDA is the specific drug product that the ANDA applicant must use in conducting any in vivo bioequivalence testing required to support approval of its ANDA. The reference standard, selected by FDA, is ordinarily the RLD. However, there may be circumstances (e.g., where the RLD is no longer marketed) in which the reference standard is a drug product other than the RLD. FDA regulations require an ANDA applicant to include in an ANDA its "basis for ANDA submission" (referred hereinafter as "basis of submission").⁴ The basis of submission includes, among other things, the name of the RLD.

A variety of factors has led to confusion among stakeholders on what the terms RLD, reference standard, and basis of submission mean, and how ANDA applicants should use them. These factors include the discontinued marketing of many approved drug products and FDA's identification of reference standards with the RLD symbol ("+") in the printed version, and under

¹ This guidance has been prepared by the Office of Generic Drugs in the Center for Drug Evaluation and Research (CDER) at the Food and Drug Administration.

² An ANDA includes all amendments and supplements to the application. 21 CFR 314.3(b). FDA recently revised certain regulations in parts 314 and 320 and this guidance refers to the regulations as revised. See *Abbreviated New Drug Applications and* 505(b)(2) *Applications; Final Rule*, 81 FR 69580 (October 6, 2016).

³ Throughout this guidance we use the term *generic drug* to refer to a new drug product described in an ANDA submitted under section 505(j) of the FD&C Act.

⁴ 21 CFR 314.94(a)(3).

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the "RLD" column in the electronic version, of FDA's *Approved Drug Products with Therapeutic Equivalence Evaluations* (the Orange Book).

The purpose of this guidance is to address this confusion by explaining what these terms mean and clarifying the differences among them. This guidance provides recommendations on how applicants can accurately use these terms in an ANDA, how persons can request FDA designation of an RLD, and how persons can request FDA selection of a reference standard. Because of the confusion regarding use of these terms up until now, previously issued CDER guidances may not use these terms as we are clarifying them in this guidance.

In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

II. BACKGROUND

The process for obtaining approval to market an innovator drug approved under a new drug application (NDA) differs from that for obtaining approval to market a generic drug under an ANDA. An NDA for an innovator drug must contain, among other things, a demonstration of the safety and effectiveness of the drug for the conditions of use for which approval is sought. A 505(b)(1) application, also known as a "stand-alone" NDA, is an application that contains full reports of investigations of safety and effectiveness that were conducted by or for the applicant or for which the applicant has a right of reference or use. A 505(b)(2) application is an NDA that contains full reports of investigations of safety and effectiveness, where at least some of the information required for approval comes from studies not conducted by or for the applicant and for which the applicant has not obtained a right of reference or use (e.g., published literature). Both 505(b)(1) and 505(b)(2) applications are approved under section 505(c) of the FD&C Act.

To obtain approval for a generic drug, an ANDA applicant is not required to provide independent evidence of the safety and effectiveness of the proposed generic drug. Instead, the applicant relies on FDA's finding that a previously approved drug product, i.e., the RLD, is safe and effective, and must demonstrate, among other things, that the proposed generic drug is the *same* as the RLD in certain ways. Specifically, with limited exceptions described in this section, a drug product for which an ANDA is submitted must have, among other things, the same active ingredient(s), conditions of use, route of administration, dosage form, strength, and (with certain permissible differences) labeling as the RLD.⁶ An ANDA applicant also must demonstrate that its proposed generic drug is bioequivalent to the RLD,⁷ and if in vivo bioequivalence studies are required for approval of the ANDA, the applicant must use the reference standard selected by

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⁵ Section 505(b)(1) of the FD&C Act.

⁶ Section 505(j)(2)(A), (j)(2)(C), and (j)(4) of the FD&C Act; see also 21 CFR 314.94(a).

⁷ Section 505(j)(2)(A)(iv) of the FD&C Act

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FDA in such testing. A generic drug must meet the same high standards of quality and manufacturing as drug products approved under section 505(c) of the FD&C Act. ⁸

FDA's approval of an ANDA reflects the Agency's determination that the proposed generic drug is therapeutically equivalent to its RLD. Therapeutic equivalents are approved drug products that are pharmaceutical equivalents for which bioequivalence has been demonstrated, and that can be expected to have the same clinical effect and safety profile when administered to patients under the conditions specified in the labeling.⁹

 To submit an ANDA for a generic drug that is not the *same* as its RLD because it has one different active ingredient (in a fixed combination drug product), or has a different route of administration, dosage form, or strength than that of the RLD, an applicant first must obtain permission from FDA through the citizen petition process. Such petitions are referred to as *suitability petitions*. FDA would not approve a suitability petition if, for instance, investigations must be conducted to show the safety and effectiveness of the proposed generic drug. 11

III. DISCUSSION

A. Listed Drug

 FDA regulations define a "listed drug" as "a new drug product that has been approved under section 505(c) of the [FD&C Act] for safety and effectiveness or under section 505(j) of the [FD&C Act], which has not been withdrawn or suspended under section 505(e)(1) through (5) or section (j)(6) of the [FD&C Act], and which has not been withdrawn from sale for what FDA has determined are reasons of safety or effectiveness." Drug products approved under an NDA, either through a 505(b)(1) application or a 505(b)(2) application, may be listed drugs. Likewise, a drug product approved under an ANDA may be a listed drug. A drug product is deemed to be a listed drug on the date of approval of the NDA or ANDA for the drug product. Each strength of a drug is a distinct drug product and, therefore, a distinct listed drug. Listed drugs appear in FDA's Orange Book. 14

When a drug product is approved, generally it appears in the Orange Book section entitled the "Prescription Drug Product List" or the "Over-the-Counter Drug Product List;" these sections are commonly referred to as the *Active Sections*. When an approved drug product is not marketed,

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⁸ Section 505(j)(2)(A)(vi) of the FD&C Act.

⁹ See 21 CFR 314.3(b). Pharmaceutical equivalents are drug products in identical dosage forms and route(s) of administration that contain identical amounts of the identical active drug ingredient, i.e., the same salt or ester of the same therapeutic moiety, or, in the case of modified-release dosage forms that require a reservoir or overage or such forms as prefilled syringes where residual volume may vary, that deliver identical amounts of the active drug ingredient over the identical dosing period; do not necessarily contain the same inactive ingredients; and meet the identical compendial or other applicable standard of identity, strength, quality, and purity, including potency and, where applicable, content uniformity, disintegration times, and/or dissolution rates. See 21 CFR 314.3(b).

¹⁰ Section 505(j)(2)(C) of the FD&C Act; 21 CFR 314.93(b).

¹¹ 21 CFR 314.93(e)(1)(i).

¹² 21 CFR 314.3(b); see also section 505(j)(7) of the FD&C Act.

¹³ 21 CFR 314.3(b).

¹⁴ The Orange Book is available at http://www.accessdata.fda.gov/scripts/cder/ob/default.cfm.

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FDA moves the drug product to the Orange Book's "Discontinued Drug Product List," which is commonly referred to as the *Discontinued Section*. In general, a listed drug is moved to the Discontinued Section when the applicant notifies FDA that it is withdrawing the listed drug from sale ¹⁵ or FDA otherwise determines that the listed drug has been withdrawn from sale. A listed drug also may be moved to the Discontinued Section if the applicant requests that approval of the NDA or ANDA be withdrawn because the drug product is no longer being marketed. ¹⁶

B. Reference Listed Drug

1. FDA's Identification of listed drugs that have been designated as RLDs

The FD&C Act and FDA's regulations require an ANDA applicant to "refer" in its ANDA to the specific listed drug on which the applicant relies in seeking approval of its ANDA. ¹⁷ This listed drug is the RLD. ¹⁸

Because an ANDA applicant is relying on FDA's finding that the RLD is safe and effective, the RLD is a drug product approved under section 505(c) of the FD&C Act for which FDA has made a finding of safety and effectiveness. ¹⁹ FDA identifies in the Orange Book listed drugs that are eligible to be RLDs. Generally, FDA will not designate a drug product approved through the 505(b)(2) pathway as an RLD if a drug product with the same active ingredient, dosage form, route of administration, and strength has been approved in a 505(b)(1) application. However, to ensure that a drug product approved in a 505(b)(2) application is not shielded from generic competition (e.g., where the drug product approved in a 505(b)(1) application), FDA may designate the drug product approved in a 505(b)(2) application as an additional RLD if requested to do so.

A listed drug approved under section 505(c) that appears in an Active Section of the Orange Book may be eligible to be an RLD. A listed drug approved under section 505(c) that appears in the Discontinued Section also may be eligible to be an RLD, unless FDA makes a determination that the listed drug was withdrawn from sale for reasons of safety or effectiveness. If FDA makes such a determination, the listed drug will be removed from the Orange Book and is no

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¹⁵ An applicant must report its withdrawal of a listed drug from sale within 15 working days of the withdrawal. 21 CFR 314.81(b)(3)(iv).

¹⁶ An applicant may request that approval of an NDA or ANDA be withdrawn because the drug product that is the subject of the NDA or ANDA is no longer being marketed. 21 CFR 314.150(c). FDA will withdraw approval of the NDA or ANDA based on the applicant's request provided none of the conditions in 314.150(a) or (b) applies. ¹⁷ Section 505(j)(2) of the FD&C Act; 21 CFR 314.94(a)(3).

¹⁸ 21 CFR 314.3(b). There may be multiple approved drugs each of which may be eligible to be an RLD for a particular drug product, e.g., either Trandate 100 mg tablets (NDA 018716) or Normodyne 100 mg tablets (NDA 018687) are eligible to be the RLD for an ANDA for Labetalol Hydrochloride 100 mg tablets.

¹⁹ The principles in this draft guidance focus on the appropriate identification of products referred to in ANDAs for generic drugs that are intended to duplicate listed drugs approved after enactment of the *Drug Price Competition* and Patent Term Restoration Act of 1984 (Pub.L. 98-417), commonly referred to as the Hatch-Waxman Amendments. If an applicant is seeking approval of an ANDA that is intended to duplicate a listed drug approved prior to enactment of the Hatch-Waxman Amendments, the applicant may consult the Agency if it has questions regarding appropriate identification of products.

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longer eligible to be an RLD. Under FDA regulations, the Agency may determine at any time 143 144 whether a listed drug was withdrawn from sale for reasons of safety or effectiveness. However, FDA must determine whether a listed drug was withdrawn from sale for reasons of safety or 145 146 effectiveness before FDA: (1) can approve an ANDA that refers to the listed drug as its RLD; (2) 147 whenever the listed drug is voluntarily withdrawn from sale if any approved ANDA already 148 refers to that listed drug; and (3) when any person petitions for such a determination. ²⁰ These 149 determinations are completed by the Agency and subsequently are published in the Federal Register. 21 Historically FDA generally did not approve ANDAs for which the Agency had made 150 a determination that the RLD was not withdrawn from sale for reasons of safety or effectiveness 151 152 until after that determination was published in the Federal Register. In order to expedite the 153 availability of generic drugs, FDA now will approve a generic drug for which it has made a final 154 determination that the RLD was not withdrawn from sale for safety or effectiveness reasons even 155 if that determination has not yet published in the Federal Register, and will proceed with Federal 156 Register publication as expeditiously as is practicable.

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If FDA determines that a listed drug in the Discontinued Section was not withdrawn from sale for safety or effectiveness reasons and publishes that determination in the Federal Register, the Agency generally adds the following notation to that product listing information in the Orange Book: "**Federal Register determination that product was not discontinued or withdrawn for safety or efficacy reasons**". If FDA determines that the listed drug was withdrawn from sale for reasons of safety or effectiveness, the Agency will remove the listed drug from the Orange Book and the Agency will not accept for review or approve ANDAs that refer to the drug product. ²³

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2. Choosing an RLD

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An ANDA applicant must first choose an RLD. If FDA has not designated an RLD for a drug product the applicant intends to duplicate, the potential applicant may submit controlled correspondence to FDA asking FDA to designate an RLD for that drug product. ²⁴ If FDA has designated a listed drug as an RLD, but the potential applicant intends to refer to a different listed drug that is a pharmaceutical equivalent to the drug designated as an RLD, the potential applicant may submit a citizen petition under 21 CFR 10.25(a) and 10.30 to request that FDA designate that different listed drug as an additional RLD. If an RLD appears in the Discontinued Section and FDA has not yet made a determination whether the drug was withdrawn from sale for reasons of safety or effectiveness, the applicant must submit a citizen petition under 21 CFR

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²⁰ 21 CFR 314.161(a).

See, e.g., Determination that KENALOG (Triamcinolone Acetonide) Lotion and Other Drug Products Were Not Withdrawn From Sale for Reasons of Safety or Effectiveness (81 FR 13797; March 15, 2016); and Determination that Ondansetron (Ondansetron Hydrochloride) Injection, USP, in PL 2408 Plastic Container, 32 Milligrams in 50 Milliliters, Was Withdrawn From Sale for Reasons of Safety or Effectiveness (80 FR 32962; June 10, 2015).
 The Orange Book may not include notations for all such determinations and does not reflect determinations made before 1995. A potential applicant should refer to the Federal Register to see if FDA has made a determination about whether a listed drug has been voluntarily withdrawn from sale for safety or effectiveness reasons.
 27 21 CFR 314.162(a).

²⁴ See FDA's guidance for industry on *Controlled Correspondence Related to Generic Drug Development* (Sept. 2015).

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10.25(a) and 10.30, at the same time as the ANDA submission, seeking a determination whether the listed drug has been withdrawn from sale for safety or effectiveness reasons. ²⁵ Such petition must contain all evidence available to the petitioner concerning the reason that the drug product was withdrawn from sale. ²⁶

If an applicant has a question about which listed drug it should identify as the RLD, the applicant may consult the Agency.

3. The Role of an RLD in an ANDA

The RLD is the listed drug to which the ANDA applicant must show its proposed generic drug is the same with respect to active ingredient(s), dosage form, route of administration, strength, labeling, and conditions of use, among other characteristics.

Regarding the *same labeling* requirement, the generic drug must have the same labeling as the RLD, except for differences permitted under the FD&C Act and Agency regulations.²⁷ Accordingly, an ANDA applicant must compare its proposed product's labeling to that of the RLD, even if FDA has selected a new *reference standard* for use in in vivo bioequivalence studies, as described in detail in section III.C. below.²⁸ Similarly, in evaluating drug product formulation and inactive ingredients, an ANDA applicant must compare its proposed generic drug to the RLD's formulation, not the formulation of the reference standard.

For an ANDA based on an approved suitability petition (a *petitioned ANDA*), the RLD is the listed drug referenced in the approved suitability petition.²⁹

Prior to 2017, the column in the electronic Orange Book labeled "RLD", and the symbol in the printed version described as identifying the RLD, at times indicated the drug product FDA selected as the reference standard and at other times indicated the RLD, contributing to the confusion about which drug is the RLD and which drug is the reference standard. Starting in 2017, FDA intends to modify the Orange Book to clarify which listed drugs are RLDs and which are reference standards, and to indicate which products in the Discontinued Section may be

²⁵ 21 CFR 314.122(a). If the listed drug is moved to the Discontinued Section while the ANDA is pending, a safety and effectiveness determination must be made by FDA before the ANDA can be approved. 21 CFR 314.161(a)(1). ²⁶ 21 CFR 314.122(a).

The FD&C Act and FDA's regulations permit labeling differences because of differences approved under a suitability petition or because the generic drug and the RLD are produced or distributed by different manufacturers. Section 505(j)(4)(G) of the FD&C Act and 21 CFR 314.94(a)(8)(iv). In certain instances, the labeling for the generic drug may differ from the labeling for the RLD if FDA permits the ANDA applicant to omit (*carve out*) protected conditions of use from labeling and obtain approval for conditions of use that are not covered by unexpired patents or exclusivity. See, e.g., Section 505(j)(2)(A)(viii) of the FD&C Act; 21 CFR 314.127(a)(7).

An applicant is responsible for checking appropriate sources in order to obtain the RLD labeling. In instances where the RLD labeling cannot be located, an applicant for convenience initially may compare its proposed generic drug's labeling with the labeling of another ANDA that referenced the same RLD and currently is marketed. Prior to approval, the applicant may need to revise labeling to reflect certain updated information that would have been necessary had the RLD not been withdrawn. See FDA's draft guidance for industry on *Updating ANDA Labeling After the Marketing Application for the Reference Listed Drug Has Been Withdrawn* (July 2016).

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referred to as an RLD. In the electronic Orange Book, there will be a column for RLDs and a column for reference standards. In the printed version of the Orange Book, the RLDs and reference standards will be identified by specific symbols.

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Once an ANDA applicant chooses the RLD on which it intends to rely, the FD&C Act and FDA regulations prohibit the applicant from amending or supplementing its ANDA to change the RLD after the ANDA has been submitted. An ANDA applicant that seeks to change its RLD must submit a new ANDA to obtain approval under section 505(j) of the FD&C Act. We recommend that an ANDA applicant request withdrawal of the pending ANDA before seeking to change its RLD.

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C. Reference Standard

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1. Selection of a Reference Standard

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As discussed above, the FD&C Act requires an applicant to provide "information to show that the new drug is bioequivalent" to its RLD.³² If bioequivalence is not self-evident, there are a variety of methods by which bioequivalence may be demonstrated, including in vivo studies (in human subjects), in vitro studies (conducted in a laboratory), or both.³³

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A "reference standard" is the drug product selected by FDA that an applicant seeking approval of an ANDA must use in conducting an in vivo bioequivalence study required for approval of the ANDA. ³⁴ To facilitate generic drug development, FDA generally selects a single reference standard that ANDA applicants must use in any in vivo testing conducted to support a demonstration of bioequivalence. FDA selects a single reference standard to ensure the greatest level of consistency between a generic drug and its RLD and among generic drugs. Ordinarily, the reference standard selected by FDA will be the RLD. ³⁵ FDA usually selects as the reference standard the highest strength available for drug products with multiple approved strengths. ³⁶ If

³⁰ Section 505(j)(2)(D) of the FD&C Act; 21 CFR 314.96(c). We note that where an applicant has previously mistakenly identified the reference standard (described in detail in section III.C.) as the RLD on FDA Form 356h or elsewhere in its ANDA, the applicant may submit an amendment to a pending ANDA or a supplement to an approved ANDA to correct the information. FDA considers this error to be a deficiency related to identification of the appropriate listed drug as the RLD, rather than a change in the RLD itself. The cover letter for such a submission should clearly identify that the purpose of the submission is "Correction of RLD information."

³¹ Section 505(j)(2)(D)(i) of the FD&C Act. See also 21 CFR 314.96(c).

 $^{^{32}}$ Section 505(j)(2)(A)(iv) of the FD&C Act.

³³ 21 CFR 320.24.

³⁴ 21 CFR 314.3(b). We note that in vivo bioequivalence evidence is not required in all circumstances, see, e.g., 21 CFR 320.22 and 320.24(b)(6). When in vivo bioequivalence testing is required or an applicant otherwise seeks to support a demonstration of bioequivalence with in vivo data, such testing should be conducted with the drug product FDA selects as the reference standard.

³⁵ An ANDA applicant may use the authorized generic version of the RLD as the reference standard for purposes of conducting an in vivo bioequivalence study required for approval. See section 505(t) of the FD&C Act for additional information on authorized generics.

³⁶ See *Abbreviated New Drug Applications and 505(b)(2) Applications; Final Rule*, 81 FR 69619 (October 6, 2016). There may be instances in which the highest strength would not be the appropriate reference standard for testing in vivo bioequivalence. For example, FDA may select a different strength if testing at that different strength provides greater assurance of safety for the subject, is more feasible in terms of recruiting subjects who meet the study

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drug products are approved for multiple strengths but FDA has selected only one of the strengths as the reference standard, an applicant may use other approved strengths for testing other than in vivo bioequivalence testing (e.g., dissolution testing to support approval of those strengths not selected as a reference standard), if the use of such drug product in the particular testing is scientifically supported.

Where FDA cannot select a drug product approved under section 505(c) of the FD&C Act as the reference standard (e.g., where the RLD has been withdrawn from sale for reasons other than safety and effectiveness), FDA generally will select a previously approved ANDA that referred to the RLD as the reference standard. If there are multiple approved generic products that referred to the RLD and have the same active ingredient, dosage form, route of administration, and strength, FDA usually will select the generic market leader, based on units sold, as the reference standard.

As discussed above, even if FDA selects a reference standard that is a drug product other than the RLD for use in conducting in vivo bioequivalence studies, an ANDA applicant must demonstrate that its proposed generic drug meets the sameness requirements in section 505(j) of the FD&C Act and Agency regulations in relation to the RLD.

Currently, a reference standard selected by FDA is indicated in the electronic version of the Orange Book with the word "RLD" in the "RLD" column, and in the paper version of the Orange Book with the "+" symbol, for drug products listed in the Active Sections. Starting in 2017, FDA intends to modify the Orange Book to clarify which listed drugs are RLDs and which are reference standards. In the electronic Orange Book, there will be a column for RLDs and a column for reference standards. In the printed version of the Orange Book, the RLDs and reference standards will be identified by specific symbols.

2. Selection of a New Reference Standard

FDA may select a new reference standard when doing so will help to ensure that applications for generic drugs may be submitted and evaluated. In making a decision whether to select a new reference standard, FDA historically has considered, among other factors:

• Whether the listed drug that is the reference standard is no longer marketed;

• Whether the listed drug that is the RLD has been withdrawn from sale for reasons of safety or effectiveness;³⁷

• Whether selecting a new reference standard would help to prevent a shortage of a particular drug product or category of drug products.³⁸

criteria, or is necessary to detect differences in effect. Further, applicants may submit a citizen petition to FDA requesting that FDA reconsider the strength selected for in vivo testing if, for example, clinical patterns of use of the drug product support use of a strength that differs from that selected by FDA as the reference standard.

³⁷ When FDA has made a determination that a listed drug has been withdrawn from sale for reasons of safety or effectiveness, the Agency will not select a new reference standard because the RLD will be removed from the Orange Book (and any ANDAs referencing that RLD will generally also be removed from the Orange Book).

³⁸ Executive Order 13588 on reducing prescription drug shortages was issued on October 21, 2011, and directs FDA

³⁰ Executive Order 13588 on reducing prescription drug shortages was issued on October 21, 2011, and directs FDA to take steps to help prevent and reduce current and future disruptions in the supply of lifesaving drug products. For

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Now FDA also will consider selecting a new reference standard when the Agency determines

that the quantity of the current reference standard in distribution is so limited that a potential

ANDA applicant is not able to obtain a sufficient quantity for in vivo bioequivalence testing

When selecting a new reference standard, FDA generally selects a drug product that is

(even if the current reference standard is not in the Discontinued Section of the Orange Book).

therapeutically equivalent to the discontinued RLD and is the market leader based on units sold.

In certain circumstances, FDA will consider additional factors in selecting a new reference

standard. For example, as a practical matter, FDA may consider whether potential reference

standards are approved for all the RLD strengths, which may make the development process

that is recommended by FDA for use in in vivo bioequivalence studies in a product-specific

Requesting Selection of a Reference Standard

standard. These circumstances include, for example, if FDA has not selected a reference

There are circumstances in which a potential ANDA applicant may ask FDA to select a reference

standard, if a potential ANDA applicant believes a reference standard other than the one selected

by FDA is appropriate, or if a reference standard is moved to the Discontinued Section and FDA

has not selected a new reference standard for the same drug product. If there is no reference

standard in the Active Section of the Orange Book for a drug product the applicant intends to

select a reference standard for that drug product. If there is a reference standard in the Active

Section of the Orange Book but there are limited or no quantities of the reference standard in

distribution, or a potential ANDA applicant believes a reference standard other than the one

21 CFR 10.25(a) and 10.30 to request that FDA select that different listed drug also as a

duplicate, the potential applicant may submit controlled correspondence to FDA asking FDA to

selected by FDA is appropriate, then the potential applicant may submit a citizen petition under

reference standard. If the Agency selects a new reference standard, that product generally will

It is common practice for some stakeholders to refer to some generic drugs that are reference standards as second RLDs. 40 That description is not accurate, and has generated confusion

the Agency. For example, FDA often receives citizen petitions requesting designation of a

regarding generic drug development and the role of the reference standard for both industry and

second RLD, when in fact the petition is requesting that FDA select a new reference standard. In

remain the reference standard even if the original reference standard (e.g., the discontinued RLD)

more efficient, or whether a potential reference standard is approved for the particular strength

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example, in June 2013, FDA removed Doxil as the reference standard for doxorubicin HCl liposome injection and selected Lipodox (ANDA 203263) as the reference standard. The shortage and continued unavailability of Doxil (NDA 050718), a lifesaving drug product for cancer treatment, meant that there existed no available reference

standard against which to test a generic doxorubicin HCl liposome injection product, effectively shielding Doxil from further generic competition.

³⁹ See generally, guidance for industry on *Bioequivalence Recommendations for Specific Products* (June 2010).

⁴⁰ See the discussion above regarding designation of an additional RLD to ensure that a pharmaceutically equivalent

drug product approved in an NDA is not shielded from generic competition.

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313 addition, ANDA applicants mistakenly have compared their proposed generic drugs to a 314 reference standard to meet requirements for approval other than in vivo bioequivalence. While the reference standard is selected by FDA for the purpose of conducting any in vivo 315 316 bioequivalence studies required for approval, an ANDA applicant must demonstrate that its 317 proposed generic drug meets the sameness requirements in section 505(j) of the FD&C Act and 318 Agency regulations in relation to the RLD. Accordingly, an ANDA's proposed labeling and 319 formulation must be compared to the RLD, and not the reference standard, and the applicant 320 must address any unexpired patents and exclusivity for the RLD as required. 41

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D. Basis of Submission

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An ANDA applicant must identify in its application the basis of submission. 42

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1. Basis of Submission for an ANDA for a Generic Drug that is the Same as its RLD

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When an applicant submits an ANDA for a generic drug that is the same as its RLD, the basis of submission is the RLD. Accordingly, the name of the RLD, including dosage form and strength, and its application number 43 should be provided as the basis of submission on Form FDA 356h (i.e., the form that accompanies regulatory submissions by an applicant) and in the appropriate sections of the ANDA. If the reference standard selected by FDA for the drug product is not the RLD, an applicant should *not* identify the reference standard as the basis of submission on Form FDA 356h. However, the reference standard should be identified in the relevant sections of the ANDA that include information pertaining to bioequivalence, such as 1.12.11 Basis for submission statement (which statement provides information about the proposed generic drug broadly including bioequivalence, as well as other information), 2.7.1 Summary of Biopharmaceutic Studies and Associated Analytical Methods, 5.2 Tabular listing of all clinical studies, and 5.3.1 Reports of biopharmaceutic studies. FDA guidance and technical documents related to ANDA formatting are maintained and updated on FDA's website.

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2. Basis of Submission for First Petitioned ANDA

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When an applicant submits a petitioned ANDA, ⁴⁶ the basis of submission is: (1) the RLD, which must be the same as the listed drug identified in the approved suitability petition; (2) a reference

⁴¹ See, e.g., Section 505(j)(2)(B) of the FD&C Act; 21 CFR 314.94(a)(12).

⁴² 21 CFR 314.94(a)(3).

⁴³ FDA previously has indicated that for drug products for which one NDA holder holds multiple approved NDAs for different strengths of the same drug product, it may be appropriate to accept an ANDA that references more than one NDA number. This promotes a more efficient use of the Agency's review resources. See guidance for industry on *Variations in Drug Products that May Be Included in a Single ANDA* (Dec. 1998).

⁴⁴ See Comprehensive Table of Contents Headings and Hierarchy,

http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/FormsSubmissionRequirements/ElectronicSubmissions/UCM315023.pdf, for electronic submissions.

⁴⁵ See, e.g., OGD's *ANDA Filing Checklist*, which provides technical information on how to organize an ANDA submission

⁴⁶ See discussion of suitability petitions in the Background section of this guidance.

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to the suitability petition's FDA-assigned docket number; and (3) a copy of FDA's correspondence approving the suitability petition. ⁴⁷ An applicant should identify on Form FDA 356h both the RLD and the RLD's application number. In the basis of submission statement section (1.12.11) of the petitioned ANDA, in addition to identifying the RLD and its application number, the applicant should reference the FDA-assigned docket number for the suitability petition and include a copy of FDA's correspondence approving the suitability petition. Also, the RLD should generally be identified as the reference standard in that section.

However, if after approval of a suitability petition and before approval of an ANDA submitted pursuant to the approved petition, a drug product is approved in an NDA for the change described in the petition, the suitability petition and the listed drug identified in the petition can no longer be the basis of submission, irrespective of whether FDA has withdrawn approval of the petition. Under these circumstances, an applicant seeking approval for a drug product with the change approved in the suitability petition must submit a new ANDA that identifies the drug product with the same active ingredient, dosage form, route of administration, and strength that has been approved under an NDA as the RLD and as its basis of submission and comply with applicable regulatory requirements.⁴⁸

3. Basis of Submission for a Generic Drug that is the Same as a Drug Product Approved in a Petitioned ANDA

When an ANDA applicant seeks approval of a generic drug that is a duplicate of a drug product in an approved petitioned ANDA (and for which the same drug has not been approved under section 505(c) of the FD&C Act), the basis of submission should be: (1) the RLD, which must be the same as the listed drug identified in the approved suitability petition, and RLD application number; (2) a reference to the suitability petition's FDA-assigned docket number; and (3) a copy of FDA's correspondence approving the suitability petition. The first petitioned ANDA approved should be used for and identified in the appropriate sections of a subsequent ANDA as the reference standard. However, the RLD for that subsequent ANDA remains the listed drug referenced in the approved suitability petition.

⁴⁷ 21 CFR 314.94(a)(3)(i) and (iii).

⁴⁸ 21 CFR 314.93(f)(2). See also *Abbreviated New Drug Applications and* 505(b)(2) *Applications; Final Rule*, 81 FR 69621-69622 (October 6, 2016) (FDA finalized the requirement that an applicant with a pending ANDA subject to an approved suitability petition must change its RLD upon FDA approval of an NDA for the same drug product described in the approved suitability petition. This decision reflects the Agency's judgment that "considerations regarding an ANDA's limited reliance on an approved suitability petition are outweighed by the need for a clear determination of therapeutic equivalence for a generic drug product and protection of intellectual property rights accorded an NDA holder.")

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APPENDIX 1: QUICK REFERENCE

This appendix summarizes the concepts discussed in this guidance. We recommend that an ANDA applicant refer to the appropriate section of the guidance for more detailed information, as needed.

• The *reference listed drug* (*RLD*) for an ANDA is the drug product that the proposed generic drug is intended to duplicate and to which the ANDA applicant must refer in its ANDA. The RLD must be a listed drug approved under section 505(c) of the FD&C Act based on a demonstration of safety and effectiveness. FDA identifies in the Orange Book listed drugs that are eligible to be RLDs. Starting in 2017, FDA intends to modify the Orange Book to clarify which listed drugs are RLDs and which are reference standards, and to indicate which products in the Discontinued Section may be referred to as an RLD. In the electronic Orange Book, there will be a column for RLDs. In the printed version of the Orange Book, the RLDs will be identified by a specific symbol.

• In vivo bioequivalence studies needed to support an ANDA must be conducted using the drug product that FDA has selected as the *reference standard*. The reference standard may or may not be the same listed drug as the RLD. While the reference standard is selected by FDA for the purposes of conducting any in vivo bioequivalence testing required for approval, all other comparisons of the proposed generic drug to determine whether it meets the statutory requirements for approval under section 505(j) of the FD&C Act (e.g., sameness requirements) generally must be to the RLD. The reference standard for a drug product selected by FDA generally is identified in the Orange Book. In the electronic Orange Book, there will be a column for reference standards. In the printed version of the Orange Book, the reference standards will be identified by a specific symbol.

• If you mistakenly identify the reference standard as the RLD in your ANDA, you may submit an amendment to a pending ANDA or a supplement to an approved ANDA to correct the information. FDA considers this error to be a deficiency related to identification of the appropriate listed drug as the RLD, rather than a change in the RLD itself. The cover letter for such a submission should clearly identify that the purpose of the submission is "Correction of RLD information."

• The *basis of submission* statement in an ANDA (e.g., in section 1.12.11 of the ANDA) and in Form FDA 356h (field 20) should include the RLD and the RLD application number. For a petitioned ANDA, the basis of submission statement in the ANDA (e.g., in section 1.12.11 of the ANDA) also should include a reference to the FDA-assigned docket number for the suitability petition and a copy of FDA's correspondence approving the suitability petition. The reference standard, if it is different from the RLD, should be identified in the appropriate sections of the ANDA (e.g., sections 1.12.11, 2.7.1, 5.2, and 5.3.1).

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422 TABLE: REFERENCING APPROVED DRUG PRODUCTS IN AN ANDA

What drug product is the generic drug			Identification of Basis of Submission in ANDA		Identification of reference
intended to be the same as?	RLD	Reference Standard	Form FDA 356h	ANDA	standard in ANDA
ANDA for a generic drug that is the same as its RLD	The RLD must be a listed drug approved under section 505(c) of the FD&C Act.	Generally the RLD also is the reference standard. If marketing of the RLD has been discontinued, the applicant should be able to find in the Orange Book the listed drug that FDA has selected as the reference standard for that drug product.	Fill in the name of RLD and its application number for field 20 on the form.	Identify the RLD and its application number in section 1.12.11.	Identify the reference standard in sections 1.12.11, 2.7.1, 5.2, and 5.3.1 of the ANDA.
ANDA for a generic drug for which a suitability petition has been approved	The listed drug identified in the approved suitability petition is the RLD.	Generally the listed drug identified in the approved suitability petition is the reference standard. If marketing of such drug has been discontinued, the applicant should be able to find in the Orange Book the listed drug that FDA has selected as the reference standard for that drug product.	Fill in the name of RLD and its application number for field 20 on the form.	 In section 1.12.11: Identify the RLD and its application number, Identify the FDA-assigned docket number for the approved suitability petition, and Include a copy of FDA's correspondence approving the suitability petition 	Identify the reference standard in sections 1.12.11, 2.7.1, 5.2, and 5.3.1 of the ANDA.

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424 TABLE: REFERENCING APPROVED DRUG PRODUCTS IN AN ANDA (cont'd)

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