Postapproval Manufacturing Changes to Biosimilar and Interchangeable Biosimilar Products Questions and Answers 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DRAFT GUIDANCE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) Center for Biologics Evaluation and Research (CBER)

> July 2024 Biosimilars

Postapproval Manufacturing Changes to Biosimilar and Interchangeable Biosimilar Products Questions and Answers Guidance for Industry

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TABLE OF CONTENTS

I.	INTRODUCTION	4
II.	BACKGROUND	5
А.	Section 351 of the PHS Act	.5
B.	Q&A Guidance Format	.6
III.	QUESTIONS AND ANSWERS	6
A.	Recommendations for Reporting Categories	.6
B.	Recommendations for Product Quality Data	.9

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Postapproval Manufacturing Changes to Biosimilar and Interchangeable Biosimilar Products Questions and Answers 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This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic.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.

13

I. **INTRODUCTION**

18 This guidance provides answers to commonly asked questions from applicants and other

19 interested parties (collectively referred to as applicants throughout this guidance) regarding

postapproval manufacturing changes (referred to as manufacturing changes throughout this 20

21 guidance) made to licensed *biosimilars* and licensed *interchangeable biosimilars*.² This

question-and-answer (Q&A) guidance is intended to inform prospective and current applicants of 22

23 the nature and type of information that applicants should provide in support of manufacturing

24 changes to licensed biosimilars and licensed interchangeable biosimilars in different reporting categories.

25 26

27 Under § 601.12 (21 CFR 601.12), applicants must inform FDA about each change in the product,

28 production process, quality controls, equipment, facilities, or responsible personnel, established

29 in the approved biologics license application (BLA). Before distributing a product made using a

30 change, an applicant must assess the effects of the change and demonstrate through appropriate

31 validation and/or other clinical and/or nonclinical laboratory studies the lack of adverse effect of

32 the change on the identity, strength, quality, purity, or potency of the product (i.e., product

¹ This guidance has been prepared by the Office of Pharmaceutical Quality in the Center for Drug Evaluation and Research in consultation with the Center for Biologics Evaluation and Research at the Food and Drug Administration.

² In this guidance, the following terms are used to describe biological products licensed under section 351(k) of the Public Health Service Act (PHS Act) (42 U.S.C. 262(k)): (1) biosimilar or biosimilar product refers to a product that FDA has determined to be biosimilar to an FDA-licensed biological reference product (see section 351(i)(2) (42) U.S.C. 262(i)(2)) and (k)(2) of the PHS Act); and (2) interchangeable biosimilar, interchangeable biosimilar product, or interchangeable product refers to a biosimilar product that FDA has also determined to be interchangeable with the reference product (see section 351(i)(3) and (k)(4) of the PHS Act).

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33 *quality*) as these factors may relate to the safety or effectiveness of the product.^{3,4} In addition,

- 34 applicants are required to inform FDA about each change in the labeling established in the
- 35 approved BLA.⁵
- 36

This guidance applies to manufacturing changes made to products licensed under section 351(k)
of the Public Health Service Act (PHS Act) (42 U.S.C. 262(k)) determined to be biosimilar to or
interchangeable with an FDA-licensed biological reference product.⁶

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41 In general, FDA's guidance documents do not establish legally enforceable responsibilities.

42 Instead, guidances describe the Agency's current thinking on a topic and should be viewed only 43 as recommendations, unless specific regulatory or statutory requirements are cited. The use of 44 the word *should* in Agency guidances means that something is suggested or recommended, but 45 not required.

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48 II. BACKGROUND

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A. Section 351 of the PHS Act

Section 351 of the PHS Act provides an abbreviated licensure pathway for biological products
 shown to be biosimilar to or interchangeable with an FDA-licensed biological reference product.
 Section 351(k) of the PHS Act sets forth the requirements for licensure of such biosimilar

- 55 products and interchangeable biosimilar products.
- 56

57 Section 351(i)(2) of the PHS Act defines *biosimilarity* to mean "that the biological product is 58 highly similar to the reference product notwithstanding minor differences in clinically inactive 59 components" and that "there are no clinically meaningful differences between the biological 60 product and the reference product in terms of the safety, purity, and potency of the product." To 61 meet the standard for interchangeability, the applicant must: (1) demonstrate biosimilarity to the reference product; (2) demonstrate that the biological product "can be expected to produce the 62 63 same clinical result as the reference product in any given patient"; and (3) if the biological 64 product "is administered more than once to an individual, the risk in terms of safety or 65 diminished efficacy of alternating or switching between the use of the biological product and the reference product is not greater than the risk of using the reference product without such 66 alternation or switch."⁷ Interchangeable products may be substituted for the reference product at 67

³ See § 601.12(a) through (d). In this guidance, *product quality* refers to the identity, strength, quality, purity, and potency of a product as these factors may relate to the safety or effectiveness of the product.

⁴ Manufacturers of biosimilars and interchangeable biosimilars must also comply with other statutory and regulatory requirements, including the current good manufacturing practice requirements described in section 501(a)(2)(B) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 351(a)(2)(B)) and regulations in 21 CFR parts 4, 210, 211, 600 through 680, and 820, as applicable to the specific product.

⁵ See § 601.12(a) and (f).

⁶ Reference product means the single biological product licensed under section 351(a) of the PHS Act against which a biological product is evaluated in a 351(k) application (section 351(i)(4) of the PHS Act).

⁷ See section 351(k)(4) of the PHS Act.

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68 69	the pharmacy level without the intervention of the prescribing health care provider, subject to State law. ⁸				
70					
71		В.	Q&A Guidance Format		
72					
73	FDA	DA has been using the Q&A guidance format to describe FDA's thinking and to update certain			
74	information and recommendations relevant to the development of biosimilar and interchangeable				
75	biosimilar products. This guidance discusses recommendations regarding manufacturing				
76	changes to licensed biosimilar and licensed interchangeable biosimilar products. ⁹				
77	2		, and a second se		
78	FDA is publishing this guidance to fulfill the commitment made as part of the negotiations				
79	relating to reauthorization of the Biosimilar User Fee Act (BsUFA). ¹⁰ FDA is committed to a				
80	focused effort to further advance the development of safe and effective biosimilar and				
81	interchangeable biosimilar products through the development of foundational guidances for these				
82	products. ¹¹				
83	I				
84					
85	III.	QUE	STIONS AND ANSWERS		
86		-			
87	Q1.	Wha	t is the nature and type of information, for different reporting categories, that		
88		FDA	recommends to support postapproval manufacturing changes to licensed		
89		biosi	milar and licensed interchangeable biosimilar products?		
90					
91		А.	Recommendations for Reporting Categories		
92					
93	Similar to manufacturing changes to biological products licensed under section 351(a) of the				
94	PHS A	PHS Act, applicants must report manufacturing changes to a biosimilar or an interchangeable			

95 biosimilar licensed under section 351(k) of the PHS Act according to the requirements in

96 § 601.12. Applicants must evaluate the potential impact of the proposed changes on the identity,

strength, quality, purity, or potency of the product as they may relate to the safety and

98 effectiveness of a licensed biosimilar or a licensed interchangeable biosimilar and report

¹¹ See Section II.D.2.d. of Biosimilar Biological Product Reauthorization Performance Goals and Procedures Fiscal Years 2023 Through 2027 (BsUFA III commitment letter) available at

https://www.fda.gov/media/152279/download.

⁸ See section 351(i)(3) of the PHS Act.

⁹ Postapproval manufacturing changes to biosimilars is the subject of Q&A I.20 in the guidance for industry *Questions and Answers on Biosimilar Development and the BPCI Act* (September 2021). FDA intends to withdraw Q&A I.20 from that guidance when this guidance becomes final. We update guidances periodically. For the most recent version of a guidance, check the FDA guidance web page at <u>https://www.fda.gov/regulatory-information/search-fda-guidance-documents</u>.

¹⁰ The Biosimilar User Fee Act of 2012 (BsUFA I) added sections 744G and 744H to the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 379j–51 and 379j–52), authorizing FDA to collect user fees for a 5-year period from persons who develop biosimilar and interchangeable biosimilar products. BsUFA was reauthorized for a 5-year period for a third time on September 30, 2022 (Biosimilar User Fee Amendments of 2022 (BsUFA III)), Title IV–Fees Relating to Biosimilar Biological Products, Public Law 112-144) for fiscal years 2023 through 2027.

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- 99 manufacturing changes to FDA using the appropriate reporting category, as described in
- 100 § 601.12.¹²
- 101
- 102 For recommendations regarding postapproval reporting categories for commonly reported
- 103 manufacturing changes for specified biological products¹³ (a category that includes currently
- 104 licensed biosimilar or interchangeable biosimilar products), applicants should refer to the
- 105 guidances for industry *Changes to an Approved Application for Specified Biotechnology and*
- 106 Specified Synthetic Biological Products (July 1997) and CMC Postapproval Manufacturing
- 107 Changes for Specified Biological Products To Be Documented in Annual Reports (December
- 108 2021). Applicants can also refer to the International Council for Harmonisation (ICH) guidance
- 109 for industry Q12 Technical and Regulatory Considerations for Pharmaceutical Product
- 110 *Lifecycle Management* (May 2021)¹⁴ for a framework to facilitate the management of
- 111 postapproval manufacturing changes for drug substances and drug products, including biological
- 112 products. Additionally, as applicable, applicants can consider the recommendations in the
- 113 guidance for industry Chemistry, Manufacturing, and Controls Changes to an Approved
- 114 Application: Certain Biological Products (June 2021).¹⁵
- 115
- As described in § 601.12, the reporting categories for manufacturing changes to an approvedapplication are provided below:

117 application are provided bei 118

- 119 Prior Approval Supplement (PAS): An applicant must submit a PAS for major changes and must obtain approval of the PAS from FDA before distribution of the 120 product manufactured using the change(s).¹⁶ A major change is one that has a substantial 121 potential to have an adverse effect on the identity, strength, quality, purity, or potency of 122 123 the product as these factors may relate to the safety or effectiveness of the product. 124 Applicants can submit a comparability protocol in a PAS to propose specified types of postapproval chemistry, manufacturing, and controls (CMC) change(s), which, if 125 126 approved, may justify a reduced reporting category for the particular change because the 127 use of the protocol for that type of change reduces the potential risk of an adverse 128 effect.¹⁷
- 129

¹² See § 601.12(a)(1), (2), and (b) through (e).

¹³ Specified biological products are biological products, as defined in 21 CFR 600.3(h), that fall under one of the categories specified in § 601.2(a) (21 CFR 601.2(a)).

¹⁴ See also the draft guidance for industry *ICH Q12: Implementation Considerations for FDA-Regulated Products* (May 2021). When final, this guidance will represent the FDA's current thinking on this topic.

¹⁵ Products licensed under a 351(k) application (i.e., licensed biosimilars and licensed interchangeable biosimilars) are outside the scope of the guidance for industry *Chemistry, Manufacturing and Controls Changes to an Approved Application: Certain Biological Products* (June 2021). However, the scientific principles regarding reporting categories and recommendations described in that guidance might also help inform which reporting categories are appropriate for manufacturing changes to licensed biosimilars and licensed interchangeable biosimilars. ¹⁶ See § 601.12(b).

¹⁷ See § 601.12(e). In this guidance, *comparability protocol* is synonymous with postapproval change management protocol in the ICH guidance for industry *Q12 Technical and Regulatory Considerations for Pharmaceutical Product Lifecycle Management* (May 2021). For recommendations pertaining to the submission of comparability protocols for postapproval CMC changes, see the guidance for industry *Comparability Protocols for Postapproval Changes to the Chemistry, Manufacturing, and Controls Information in an NDA, ANDA, or BLA* (October 2022).

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Changes Being Effected in 30 Days (CBE-30)/Changes Being Effected (CBE-0) 130 131 **Supplements:** An applicant must request approval for moderate changes that require a 132 CBE-30 supplement to FDA, and the supplement must be received by FDA at least 30 days before distribution of the product made using the change.¹⁸ A moderate change is 133 134 one that has a moderate potential to have an adverse effect on the identity, strength, 135 quality, purity, or potency of the product as these factors may relate to the safety or 136 effectiveness of the product. If FDA informs the applicant within 30 days after receipt of 137 the supplement that the change requires approval prior to distribution or any of the 138 information required to be included in the supplement is missing, the applicant must not distribute the product made using the change until FDA determines that compliance with 139 § 601.12 is achieved.¹⁹ In certain circumstances. FDA may determine that, based on 140 141 FDA's experience with a particular type of change, the supplement for such a change is 142 usually complete and provides the proper information, and there are particular assurances that the proposed change has been appropriately submitted, such as when the change has 143 144 been validated in accordance with a previously approved comparability protocol. In these circumstances, FDA may determine that the product made using the change may be 145 distributed at the time of receipt of the supplement (CBE-0 supplement) by FDA.^{20,21} 146

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• Annual Report: An applicant must document minor changes in an annual report.²² A minor change is one that has a minimal potential to have an adverse effect on the identity, strength, quality, purity, or potency of the product as these factors may relate to the safety or effectiveness of the product.

151 152

153 When reporting a manufacturing change to a licensed biosimilar or a licensed interchangeable 154 biosimilar to FDA, the applicant should clearly identify the reporting category under which the

155 change is being reported. If the manufacturing change requires a supplement submission (i.e.,

156 PAS, CBE-30, or CBE-0), the applicant should specify the supplement as a CMC supplement

157 and identify the reporting category in the submission. Additionally, the cover letter must include

a complete list of all the changes contained in the supplement.²³ For manufacturing changes that

¹⁸ See § 601.12(c).

¹⁹ See § 601.12(c)(4).

²⁰ See § 601.12(c)(5). Changes that, in FDA's experience, have been submitted properly with the appropriate information and could be implemented under § 601.12(c)(5) at the time of receipt of the supplement by FDA without a previously approved comparability protocol are described in the guidances for industry *Changes to an Approved Application for Specified Biotechnology and Specified Synthetic Biological Products* (July 1997) and *Chemistry, Manufacturing, and Controls Changes to an Approved Application: Certain Biological Products* (June 2021), as applicable.

²¹ Where the applicant has an approved comparability protocol under § 601.12(e) for the use of a CBE-0 supplement and presents evidence in the CBE-0 supplement that the change has been validated in accordance with the approved protocol, the product made using the change may be distributed immediately upon receipt of the supplement by FDA.

²² See § 601.12(d).

²³ See § 601.12(a)(5).

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impact labeling, the applicant should include the corresponding labeling changes with the CMC
 supplement.²⁴

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B. Recommendations for Product Quality Data

163 164 An applicant who intends to make a manufacturing change to a licensed biosimilar or a licensed interchangeable biosimilar should follow the principles outlined in the ICH guidance for industry 165 O5E Comparability of Biotechnological/Biological Products Subject to Changes in Their 166 167 Manufacturing Process (June 2005). When changes are made to the manufacturing process, the 168 applicant should evaluate the comparability of the biosimilar or interchangeable biosimilar product before and after the manufacturing change (*comparability exercise*). The extent of data 169 170 and information necessary to establish comparability should be commensurate with the type of manufacturing change and its overall potential to adversely affect the quality, safety, and 171 efficacy of the product. The design of the comparability exercise, including the *quality* 172 173 $attributes^{25}$ to be compared and analytical methods to be used, should address the risks of the 174 manufacturing change(s) and should provide sufficient data and information to demonstrate the 175 comparability of the biosimilar or interchangeable biosimilar product premanufacturing and 176 postmanufacturing change. In addition to comparability data, other product quality data and 177 information, such as process validation data, should be included in the supplement, as 178 applicable.²⁶ 179 180 Data and information submitted in support of manufacturing changes should demonstrate that

181 quality attributes remain comparable among prechange and postchange products and should

demonstrate that consistency in the quality, safety, and efficacy of the postchange product is

183 predictable. The postchange biosimilar or interchangeable biosimilar product should be

184 evaluated at the process step most appropriate to detect a change in the quality attributes. This 185 may entail evaluating the product at multiple stages of manufacture. For instance, in some cases,

186 it might be appropriate to compare prechange and postchange data on intermediates most

- 187 affected by the manufacturing change in addition to the drug substance and the drug product to
- 187 anected by the manufacturing change in addition to the drug substance and the drug product to 188 support the determination of comparability.
- 189

²⁴ See § 601.12(a) and (f) for the requirements pertaining to reporting labeling changes to FDA. If applicants have questions about the reporting classification recommendations for submissions that include both manufacturing and labeling changes, FDA advises applicants to consult with the appropriate FDA review division. For recommendations on labeling for biosimilars and interchangeable biosimilars, see the draft guidance for industry *Labeling for Biosimilar and Interchangeable Biosimilar Products* (September 2023). When final, this guidance will represent the FDA's current thinking on this topic. For recommendations on classification categories A through F for certain supplement submissions, as established in BsUFA III, see the draft guidance for industry *Classification Categories for Certain Supplements Under BsUFA III* (August 2023). When final, this guidance will represent the FDA's current thinking on this topic.

²⁵ The ICH guidance for industry *Q5E Comparability of Biotechnological/Biological Products Subject to Changes in Their Manufacturing Process* (June 2005) defines *quality attribute* as "[a] molecular or product characteristic that is selected for its ability to help indicate the quality of the product. Collectively, the quality attributes define identity, purity, potency, and stability of the product, and safety with respect to adventitious agents...." (See page 13 of ICH Q5E.)

²⁶ For general principles and approaches that FDA considers appropriate elements of process validation for the manufacture of drugs, including biological products, see the guidance for industry *Process Validation: General Principles and Practices* (January 2011).

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190 The goal of the comparability exercise is to ensure that manufacturing process changes do not 191 lead to an adverse impact on the quality, safety, and efficacy of the licensed biosimilar or the 192 licensed interchangeable biosimilar. The comparability exercise should include a side-by-side 193 analytical comparison of a sufficient number of lots of prechange and postchange material, 194 including stability data, as appropriate. As described in ICH Q5E, for certain manufacturing 195 process changes, even slight modifications of the production and procedures might cause 196 changes in the stability of the postchange product, and appropriate studies should be considered 197 to confirm that suitable storage conditions and controls are selected. Comparative stability 198 studies conducted under relevant storage conditions (e.g., accelerated testing, stress testing) 199 among prechange and postchange materials can detect subtle differences that may not be readily 200 detectable by characterization studies and may, therefore, provide greater insight into differences 201 between the prechange and the postchange product. These comparative stability studies are 202 especially important when the proposed manufacturing changes can alter protein structure or 203 purity and impurity profiles.²⁷ The selection of the conditions for the stability studies should be 204 justified based on relevance to the product and risks associated with the manufacturing change. A comparison of analytical data from the postchange material to the historical analytical data 205 206 (i.e., prechange material) may be sufficient to support a manufacturing change if the quality 207 attributes of the prechange and the postchange material are comparable. The historical analytical 208 data should include results from biosimilar or interchangeable biosimilar lots used in the comparative analytical assessment (CAA),²⁸ biosimilar or interchangeable biosimilar lots used in 209 210 the clinical development of the biosimilar or the interchangeable biosimilar, lots used to support 211 process consistency, and commercial materials manufactured after approval, as applicable. 212 When a subset of all available historical data is selected for the comparison, a scientific 213 justification should be provided. If an analytical assay has changed since licensure of the 214 biosimilar or the interchangeable biosimilar, adequate assay bridging data on assay performance 215 should be provided.

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- 217 218

Q2. What reference materials should applicants include in the comparability exercise?

In general, an applicant should include a well-qualified, in-house reference material in the comparability exercise to evaluate whether a postchange biosimilar or interchangeable biosimilar remains comparable to the prechange product. The in-house reference material serves as an important calibration point for the evaluation(s) conducted in a comparability exercise.²⁹

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If applicants submit sufficient data to enable an informed prediction that no adverse impact on
 the quality, safety, or efficacy of the postchange product is expected, FDA may consider the data

²⁷ See page 8 of ICH Q5E. For further information, see the guidances for industry Q5C Quality of Biotechnological Products: Stability Testing of Biotechnological/Biological Products (July 1996) and Q1A(R2) Stability Testing of New Drug Substances and Products (November 2003).

²⁸ For recommendations on the design and evaluation of comparative analytical studies, see the draft guidance for industry *Development of Therapeutic Protein Biosimilars: Comparative Analytical Assessment and Other Quality-Related Considerations* (May 2019). When final, this guidance will represent the FDA's current thinking on this topic.

²⁹ In this guidance, *in-house reference material* refers to the appropriately characterized material prepared in-house by the manufacturer from a representative lot(s) for the purpose of biological assay and physicochemical testing of subsequent lots. For further information on in-house reference materials, see the ICH guidance for industry *Q6B Specifications: Test Procedures and Acceptance Criteria for Biotechnological/Biological Products* (August 1999).

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adequate to support the change without the inclusion of reference materials beyond the in-house 226 227 reference material in the comparability exercise. However, demonstration of comparability to 228 support manufacturing change(s) should provide adequate assurance that a postchange product 229 remains biosimilar to or interchangeable with the reference product. When differences in the 230 quality attributes are observed between the prechange and the postchange material, comparison 231 to the data from the reference product submitted to support licensure should be considered to 232 help assess the potential impact and acceptability of these differences.

233

234 **Q3**. How should proposals to introduce a licensed biosimilar and/or licensed 235 interchangeable biosimilar product into a multiproduct manufacturing area or a 236 multiproduct contract manufacturing facility be reported?

237

238 An applicant proposing to introduce its licensed biosimilar or licensed interchangeable biosimilar

239 into a multiproduct manufacturing area or a multiproduct contract manufacturing facility³⁰

240 should refer to the guidances for industry Changes to an Approved Application for Specified

241 Biotechnology and Specified Synthetic Biological Products (July 1997), CMC Postapproval

242 Manufacturing Changes for Specified Biological Products To Be Documented in Annual Reports

243 (December 2021), and Chemistry, Manufacturing, and Controls Changes to an Approved

244 Application: Certain Biological Products (June 2021), as applicable, for recommendations on

245 the appropriate postapproval reporting category to report such changes. The reporting category 246 should be determined based on risks associated with product introduction(s) to the quality

247 attributes of the licensed biosimilar or the licensed interchangeable biosimilar.

248

249 Risks associated with introducing a licensed biosimilar or a licensed interchangeable biosimilar

- 250 into a multiproduct manufacturing area or a multiproduct contract manufacturing facility depend 251 on the type of product being introduced and the potential addition of further control measures to
- 252 ensure that the product meets its intended quality characteristics, including purity. Identity

testing is one tool used to detect and control such risks.³¹ 253

254

255 The introduction of a licensed biosimilar or a licensed interchangeable biosimilar into a 256 multiproduct manufacturing area or a multiproduct contract manufacturing facility — where the

reference product is manufactured and/or another applicant's biosimilar or interchangeable

257

- 258 biosimilar product(s) referencing the same reference product is manufactured — poses risks such 259
- as cross-contamination or product mix-ups. In these cases, a respective single identity test for
- 260 each product might not always be able to distinguish the different products. Therefore, in

³⁰ As recognized in 21 CFR 200.10(b) and § 211.22(a) (21 CFR 211.22(a)), FDA is aware that some drug manufacturing activities may be performed at contract facilities. When a drug manufacturer uses a contract facility, the drug manufacturer's quality control unit is responsible for approving or rejecting drug products manufactured, processed, packed, or held under contract by another company (§ 211.22(a)). Additionally, FDA's biological product regulations define manufacturer in 21 CFR 600.3(t) to include an applicant for a licensed product where the applicant assumes responsibility for compliance with the applicable product and facility standards. See 21 CFR 210.3(b)(15) for the definition of quality control unit, § 211.22 for the requirements and responsibilities of the quality control unit, and 21 CFR 600.10 through 600.15 for establishment standards for biological product facilities. For further information, see also the guidances for industry Cooperative Manufacturing Arrangements for Licensed Biologics (November 2008) and Contract Manufacturing Arrangements for Drugs: Quality Agreements (November 2016).

³¹ See § 610.14 (21 CFR 610.14).

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addition to identity tests for each product, current good manufacturing practice requirements,
 including applicable manufacturing and procedural controls (e.g., separate manufacturing areas,
 control of personnel, process, and material flow, and control of materials, as applicable) to
 prevent cross-contamination or mix-ups, must be followed.³² Such manufacturing and
 procedural controls should be described in sufficient detail to enable FDA to evaluate whether
 the proposed controls are adequate to address such risks.

- Q4. What is the nature and type of CMC information that FDA recommends to support
 the approval of a supplement for a dosage form or a strength that has not previously
 been licensed under the 351(k) BLA?
- 271

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272 When submitting a supplement to a BLA submitted under section 351(k) of the PHS Act (a

351(k) BLA) that proposes a new dosage form or a new strength (i.e., a dosage form or strength not previously licensed in the 351(k) BLA), applicants must include information demonstrating,

among other things, that the dosage form and the strength of the proposed biosimilar or the

- 276 proposed interchangeable biosimilar product "are the same as those of the reference
- 277 product."^{33,34} In addition, to support approval of a supplement to a 351(k) BLA proposing a
- 278 new dosage form or a new strength, the supplement must include information demonstrating that
- the proposed biosimilar or the proposed interchangeable biosimilar is "highly similar to the
- reference product notwithstanding minor differences in clinically inactive components" and
 "there are no clinically meaningful differences between the biological product and the reference
- product in terms of the safety, purity, and potency of the product.³⁵ Further, to support approval
- of a supplement for a new dosage form or a new strength as an interchangeable biosimilar
- product, information submitted in the supplement needs to be sufficient to show that the
- proposed product meets the interchangeability standards described in section 351(k)(4) of the
- 286 PHS Act.³⁶ The proposal of a new dosage form or a new strength that has not previously been
- 287 licensed under the 351(k) BLA is generally considered a major change; therefore, the appropriate
- reporting category for these changes would generally be a PAS.
- 289

A supplement proposing a new dosage form or a new strength generally should include the

- following CMC-related information: (1) adequate comparability data between a licensed
- biosimilar or interchangeable biosimilar (i.e., prechange product) and the proposed biosimilar or
- interchangeable biosimilar with the new dosage form or strength (i.e., postchange product), (2)
- 294 CAA data, and (3) manufacturing data (e.g., process validation) to support the proposed
- 295 postchange product. The extent of the comparability data and the CAA data should be justified
- based on a risk assessment of the differences between the prechange product and the postchange
- 297 product. In some cases, additional data (such as pharmacokinetic studies) should be submitted to

 $^{^{32}}$ See, e.g., 21 CFR 211.42, 211.80, 211.100 and §§ 601.2(d) and 610.14.

 $^{^{33}}$ See section 351(k)(2)(A)(i)(IV) of the PHS Act.

 $^{^{34}}$ As noted in Q&A I.21 of the guidance for industry *Questions and Answers on Biosimilar Development and the BPCI Act*, "an applicant may not seek approval, in a 351(k) application or a supplement to an approved 351(k) application, for a route of administration, a dosage form, or a strength that is different from that of the reference product."

 $^{^{35}}$ See section 351(k)(3) and (i)(2) of the PHS Act.

 $^{^{36}}$ See section 351(k)(3) and (i)(3) of the PHS Act.

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support approval of the supplement for the proposed dosage form or strength.³⁷ It may be 298 299 considered reasonable for the design of the CAA studies used to support the proposed dosage 300 form or strength to leverage the CAA data previously submitted in the 351(k), without additional 301 CAA studies comparing the proposed new dosage form or strength to its reference product. 302 However, applicants should assess whether additional CAA studies with the new dosage form or 303 the new strength are appropriate to address the potential impact of the differences in the dosage 304 form or strength on product quality. Applicants should also consider how the proposed product 305 would be used (e.g., whether the dosage form or strength is indication- and/or population-306 specific for the reference product). 307 308 Consider the following illustrative examples to help applicants determine when leveraging the 309 CAA data previously submitted in the 351(k) BLA may be appropriate. The provided examples 310 presume that the same drug substance is used to manufacture the prechange and postchange 311 products. 312 313 • The applicant submits a supplement proposing a new strength that has the same route of 314 administration, dosage form, and excipients, and the same patient population and 315 indication as a biosimilar or an interchangeable biosimilar product licensed under the 316 351(k) BLA. In this case, leveraging the CAA previously submitted in the 351(k) BLA 317 along with a risk-based comparability exercise between the prechange strength(s) and the 318 proposed postchange strength may be reasonable. 319 320 The applicant submits a supplement proposing a new dosage form and a new strength • 321 intended for a different patient population or indication than the biosimilar or 322 interchangeable biosimilar product(s) licensed under the 351(k) BLA. In this case, 323 although the CAA data previously submitted in the 351(k) BLA may be leveraged, the 324 applicant should also include a risk-based targeted CAA between the proposed product 325 with the new dosage form and strength and its reference product and include a risk-based 326 comparability exercise between the prechange and postchange products. 327 328 In both cases, in addition to the comparability exercise and potentially new CAA data, the 329 applicant should include all relevant manufacturing information for the proposed strength or 330 dosage form in the supplement, including process validation data. As with other changes 331 requiring CMC data, the extent of product quality data and information that should be submitted 332 would be dependent on the proposed change. 333 334 Various additional scenarios are possible, and the data and information appropriate to support 335 each unique scenario may be different. FDA recommends that applicants discuss³⁸ with the 336 appropriate FDA review division the adequacy of the analytical and manufacturing data that 337 should be provided to support approval of a supplement for a dosage form or a strength that has 338 not previously been licensed under the 351(k) BLA before submitting the supplement.

³⁷ This guidance does not address the circumstances under which such additional data should be submitted or provide recommendations on the nature and type of information (other than CMC information) that should be submitted in those circumstances.

³⁸ See the draft guidance for industry *Formal Meetings Between the FDA and Sponsors or Applicants of BsUFA Products* (August 2023). When final, this guidance will represent the FDA's current thinking on this topic.