

Compounding and Repackaging of Radiopharmaceuticals By Outsourcing Facilities

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DRAFT GUIDANCE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)
Office of Compliance/OUDLC**

**December 2016
Compounding and Related Documents**

Compounding and Repackaging of Radiopharmaceuticals By Outsourcing Facilities

Guidance for Industry

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1 **Guidance for Industry¹**
2 **Compounding and Repackaging of Radiopharmaceuticals By**
3 **Outsourcing Facilities**
4

5
6 This draft guidance, when finalized, will represent the current thinking of the Food and Drug
7 Administration (FDA or the Agency) on this topic. It does not create any rights for any person
8 and does not operate to bind FDA or the public. You can use an alternative approach if the
9 approach satisfies the requirements of the applicable statutes and regulations. If you want to
10 discuss an alternative approach, contact the FDA staff responsible for implementing this
11 guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on
12 the title page of this guidance.
13

14
15
16 **I. INTRODUCTION AND SCOPE**
17

18 This guidance sets forth the FDA’s policy regarding compounding and repackaging of
19 radiopharmaceuticals for human use by entities that are registered with FDA as outsourcing
20 facilities under section 503B of the Federal Food, Drug, and Cosmetic Act (FD&C Act or the
21 Act). This guidance describes how FDA intends to apply section 503B of the FD&C Act to
22 radiopharmaceuticals compounded by outsourcing facilities. It also describes the conditions
23 under which FDA does not intend to take action for violations of sections 505 and 502(f)(1) of
24 the FD&C Act when an outsourcing facility repackages radiopharmaceuticals.
25

26 This guidance *does not address* the following:

- 27 • Mixing, reconstituting, combining, diluting, or repackaging of a radiopharmaceutical, or
28 other such acts, performed in accordance with directions contained in the FDA-approved
29 labeling.
- 30 • Positron emission tomography (PET) drugs.
- 31 • Drug products that are not radiopharmaceuticals.²
- 32 • Radioactive biological products that are subject to licensure under section 351 of the
33 Public Health Service (PHS) Act.
- 34 • Radiopharmaceuticals for use in animals.

¹ This guidance has been prepared by multiple offices in the Center for Drug Evaluation and Research (CDER), in consultation with the Office of Regulatory Affairs at the Food and Drug Administration.

² FDA has issued several guidance documents concerning its policies for compounding drug products that are not radiopharmaceuticals under sections 503B of the Act. See, for example, *For Entities Considering Whether to Register Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.

All FDA guidances are available on the FDA guidance web page. FDA updates guidances regularly. To make sure you have the most recent version of a guidance, always consult the guidance web page at <http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm>.

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- 35 • Compounding or repackaging of radiopharmaceuticals by entities that are not registered
36 with FDA as outsourcing facilities. See FDA’s draft guidance document, *Compounding
37 and Repackaging of Radiopharmaceuticals by State-Licensed Nuclear Pharmacies and
38 Federal Facilities*.
- 39 • This guidance does not alter FDA’s current regulations and guidances addressing
40 investigational new drugs.

41
42 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.
43 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed as
44 recommendations, unless specific regulatory or statutory requirements are cited. The use of the
45 word *should* in Agency guidances means that something is suggested or recommended, but not
46 required.

47 48 **II. BACKGROUND**

49 50 **A. Radiopharmaceuticals, Generally**

51
52 Radiopharmaceuticals are radioactive³ sterile and non-sterile drugs that are used in nuclear
53 medicine procedures to diagnose, monitor, and treat diseases. Radiopharmaceuticals are used in
54 diagnostic procedures and for therapeutic purposes. For example, during certain diagnostic
55 procedures involving radiopharmaceuticals, the body is exposed to small amounts of radiation to
56 observe organ function. Radiopharmaceuticals used for therapeutic purposes are generally
57 administered in larger amounts to ensure that therapeutic doses of radiation are delivered to
58 specific disease sites.

59
60 Some radiopharmaceuticals are produced by a conventional manufacturer and shipped in *hot*
61 (radioactive) multi-dose containers directly to an imaging center or hospital for patient
62 administration. The imaging center or hospital’s nuclear pharmacy transfers the
63 radiopharmaceuticals from the multi-dose containers into unit-dose, patient-ready containers, and
64 sometimes manipulates the radiopharmaceuticals in other ways, such as by diluting or pooling
65 them. Other radiopharmaceuticals are produced at the nuclear pharmacy by combining
66 radioactive materials eluted from a generator with non-radioactive *cold kits*. The nuclear
67 pharmacy prepares the radiopharmaceutical product using the components of the kit and adding
68 radioactive material eluted from a generator for administration to a patient.

69

³ As used in this guidance, *radiopharmaceutical* and *radioactive drug* have the same meaning and refer to a drug that meets the definition in 21 CFR 310.3(n): “any substance defined as a drug in section 201(g)(1) of the Federal Food, Drug, and Cosmetic Act which exhibits spontaneous disintegration of unstable nuclei with the emission of nuclear particles or photons and includes any nonradioactive reagent kit or nuclide generator which is intended to be used in the preparation of any such substance but does not include drugs such as carbon-containing compounds or potassium-containing salts which contain trace quantities of naturally occurring radionuclides. The term ‘radioactive drug’ includes a ‘radioactive biological product’ as defined in 600.3(ee) of this chapter.” *Radioactive biological product* is defined in 21 CFR 600.3(ee) as “a biological product which is labeled with a radionuclide or intended solely to be labeled with a radionuclide.” As stated previously, this guidance does not apply to radioactive biological products.

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70 Because radioactive drugs generally have short half-lives (e.g., minutes, hours, or up to a few
71 days), they must reach the patient for administration soon after they are produced. Therefore,
72 hospitals and imaging centers often place orders with a nuclear pharmacy for delivery of
73 radiopharmaceutical unit-doses for procedures scheduled for the following day or in anticipation
74 of unscheduled nuclear medicine procedures that might take place during the evening or
75 weekend when the nuclear pharmacy is closed.

76
77 There are legal restrictions as to who is permitted to obtain, transport, manipulate, and use
78 radioactive drugs. At the Federal level, the Nuclear Regulatory Commission (NRC) has
79 established rules to protect the general public, patients, and radiation workers from unnecessary
80 exposure to radiation.⁴ The NRC and those States that have entered into certain agreements with
81 the NRC (Agreement States)⁵ issue radioactive materials (RAM) licenses that describe who is
82 licensed to possess radioactive materials and the type of radioactive material that may be
83 possessed under the license. An authorized nuclear pharmacist, as defined by the NRC,⁶ must be
84 identified on a RAM license issued to a nuclear pharmacy where radiopharmaceuticals are
85 prepared. Transport of radioactive materials is regulated by the NRC or the Agreement State and
86 the U.S. Department of Transportation.⁷

87
88 Separate from the RAM licenses issued by the NRC or an Agreement State, State boards of
89 pharmacy may issue pharmacy permits to holders that receive, prepare, repackage, and/or
90 dispense radioactive drugs. Certain States specifically recognize a separate category of
91 pharmacists who practice as nuclear pharmacists and issue credentials specific for this practice.

B. Compounding and Repackaging of Radiopharmaceuticals by an Outsourcing Facility

1. Compounding

92
93
94
95
96
97 In 2013, the Drug Quality and Security Act added a new section 503B to the FD&C Act, which
98 describes a new category of compounders called *outsourcing facilities*.⁸ Section 503B of the
99 FD&C Act describes the conditions that must be satisfied for human drug products compounded
100 by or under the direct supervision of a licensed pharmacist in an outsourcing facility to qualify
101 for exemptions from the following three sections of the FD&C Act:

- 102
- 103 • Section 502(f)(1) (concerning labeling with adequate directions for use)
- 104 • Section 505 (concerning drug approval requirements)

⁴ See 10 CFR parts 19, 20, and 35.

⁵ The NRC defines an Agreement State in part as one that has entered into an agreement with the NRC under section 274 of the Atomic Energy Act of 1954 (42 U.S.C. 2021).

⁶ See 10 CFR 35.2

⁷ See 10 CFR 71.5, 49 CFR parts 107, 171 through 180, and 390 through 397.

⁸ See Pub.L. No.113-54, §102(a), 127 Stat. 587, 587-588 (2013).

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- 105 • Section 582 (concerning drug supply chain security requirements)⁹
106

107 A complete list of the conditions that must be met for a drug product to qualify for the
108 exemptions in section 503B appears in the Appendix to this guidance document.
109

110 In contrast to drug products compounded under section 503A of the FD&C Act, drug products
111 compounded by outsourcing facilities under section 503B cannot qualify for exemption from
112 current good manufacturing practice (CGMP) requirements in section 501(a)(2)(B) of the FD&C
113 Act. Outsourcing facilities are also subject to FDA inspections according to a risk-based
114 schedule, specific adverse event reporting requirements, and other conditions that help to
115 mitigate the risks associated with the drug products they compound.
116

117 Section 503B of the FD&C Act defines *compounding* as including “the combining, admixing,
118 mixing, diluting, pooling, reconstituting, or otherwise altering of a drug or bulk drug substance to
119 create a drug.”¹⁰ In contrast to section 503A of the FD&C Act, section 503B does not expressly
120 exclude radiopharmaceuticals, so the conditions of section 503B of the FD&C Act apply to
121 radiopharmaceuticals compounded by an entity that is registered with FDA as an outsourcing
122 facility.
123

124 Because section 503B applies to the compounding of radiopharmaceuticals, an entity is eligible
125 to become an outsourcing facility if some or all of its operations consist of compounding
126 radiopharmaceuticals for human use, provided that the entity otherwise meets the definition of an
127 *outsourcing facility* in section 503B(d)(4) of the FD&C Act (e.g., the entity must engage in the
128 compounding of at least some sterile products (radiopharmaceuticals and/or non-
129 radiopharmaceuticals)).¹¹
130

131 2. Repackaging 132

133 FDA regards *repackaging* as the act of taking a finished drug product, including a
134 radiopharmaceutical, from the container in which it was distributed by the original manufacturer
135 and placing it into a different container without further manipulation of the drug. Repackaging
136 also includes the act of placing the contents of multiple containers (e.g., vials) of the same
137 finished drug product into one container, as long as the container does not include other
138 ingredients. If a radiopharmaceutical is manipulated in any other way, including if it is
139 reconstituted, diluted, mixed, or combined with another ingredient, that act is not considered
140 repackaging.

⁹ In addition to the exemption in section 503B, the definition of *product* in section 581(13) of the FD&C Act excludes radioactive drugs from the drug supply chain security requirements of the FD&C Act, including section 582.

¹⁰ See section 503B(d)(1).

¹¹ See Section 503B(d)(4A)(i). Section 503B(d)(4) defines an *outsourcing facility* as a facility at one geographic location or address that is engaged in the compounding of sterile drugs; has elected to register as an outsourcing facility; and complies with all of the requirements of Section 503B. An outsourcing facility is not required to be a licensed pharmacy and may or may not obtain prescriptions for identified individual patients.

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141
142 Drugs that are repackaged are not subject to section 503B of the FD&C Act. Therefore,
143 repackaged radiopharmaceuticals are not eligible for the exemptions under section 503B.
144 Additionally, an entity that only repackages drugs, including radiopharmaceuticals, does not
145 meet the definition of an *outsourcing facility* in section 503B(d)(4) of the FD&C Act. If an
146 entity that meets the definition of an *outsourcing facility* in section 503B(d)(4) also repackages
147 radiopharmaceuticals, FDA does not intend to take action for violations of sections 505 and
148 502(f)(1) of the FD&C Act when the outsourcing facility repackages radiopharmaceuticals in
149 accordance with the conditions of described below and any other applicable requirements. In
150 addition, the outsourcing facility's compounded drugs would be eligible for the exemptions in
151 section 503B if they meet the conditions in that section. We describe our policies with respect to
152 repackaged and compounded radiopharmaceuticals in section III.B of this guidance document.

III. POLICY

A. Compounding of Radiopharmaceuticals

1. General

159
160 Outsourcing facilities that compound radiopharmaceuticals must do so in accordance with the
161 conditions of section 503B of the FD&C Act (see the Appendix to this guidance document). If
162 an outsourcing facility fails to compound a drug in accordance with a condition of section 503B,
163 none of the outsourcing facility's compounded drugs, including radiopharmaceuticals and non-
164 radiopharmaceuticals, would qualify for the exemptions in section 503B.¹²

165
166 In general, FDA's policies regarding section 503B apply to the compounding of
167 radiopharmaceutical drug products. However, we have developed the following specific
168 policies, applicable only to the compounding of radiopharmaceuticals by outsourcing facilities:

- 169 • Bulk drug substances used in compounding radiopharmaceuticals under section 503B
170 (see section III.A.2)
- 171 • Compounding radiopharmaceuticals that are essentially copies of approved drugs under
172 section 503B when such compounding is limited to *minor deviations*, as defined below
173 (see section III.A.3).

2. Bulk Drug Substances Used to Compound Radiopharmaceuticals Under Section 174 503B of the FD&C Act

175
176 One of the conditions that must be met for a drug product compounded by an outsourcing facility
177 to qualify for the exemptions provided by 503B is that the outsourcing facility does not
178 compound drug products using a bulk drug substance unless: (1) the bulk drug substance appears
179 on a list developed by FDA of bulk drug substances for which there is a clinical need (503B
180
181
182

¹² See sections 503B(a)(11) and 503B(d)(4) of the FD&C Act.

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183 bulks list)¹³; or (2) the drug compounded from such bulk drug substance appears on the drug
184 shortage list in effect under section 506E of the FD&C Act (the FDA’s drug shortage list) at the
185 time of compounding, distribution,¹⁴ and dispensing.¹⁵

186
187 FDA solicited nominations for bulk drug substances for inclusion on the 503B bulks list,
188 however, FDA’s request for nominations for the 503B bulks list reserved the question of
189 compounded radiopharmaceutical products, and only one radiopharmaceutical was nominated
190 for the 503B bulks list.¹⁶

191
192 At this time, interested parties can nominate substances for inclusion on the 503B bulks list,¹⁷
193 and they will be evaluated as described in FDA’s guidance, *Interim Policy for Compounding*
194 *Using Bulk Drug Substances Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.
195 FDA intends to adopt a policy for bulk drug substances nominated for use in compounding
196 radiopharmaceuticals under section 503B that is consistent with the policy described in *Interim*
197 *Policy for Compounding Using Bulk Drug Substances Under Section 503B of the Federal Food,*
198 *Drug, and Cosmetic Act*.

199
200 **3. *Compounded Radiopharmaceuticals that are Essentially Copies of Approved Drugs***

201
202 Under section 503B(a)(5) of the Act, a compounded drug that is essentially a copy of one or
203 more approved drugs is not eligible for the exemptions in section 503B.

204
205 In some cases, an outsourcing facility might receive a prescription or order for a
206 radiopharmaceutical compounded from an FDA-approved radiopharmaceutical, with one or
207 more *minor deviations* (see below) that are necessary to accommodate circumstances not
208 contemplated in the FDA-approved labeling, such as the rate of radioactive decay or
209 geographical distance from the patient.

210
211 For purposes of this guidance, FDA regards a *minor deviation* as a change from the approved
212 labeling in radioactivity, volume, and/or the step-by-step procedures made when compounding
213 the radiopharmaceutical from an FDA-approved drug product in a patient-ready dose. For
214 example:

215

¹³ See Section 503B(a)(2)(A)(i).

¹⁴ *Distribution* means that the compounded or repackaged radiopharmaceutical has left the facility in which it was compounded or repackaged.

¹⁵ See Section 503B(a)(2)(A)(ii).

¹⁶ See the guidance, *Interim Policy on Compounding Using Bulk Drug Substances Under Section 503B of the Federal Food, Drug, and Cosmetic Act* at <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM469122.pdf>.

¹⁷ Nominations of bulk drug substances to be used in compounding radiopharmaceuticals should be submitted to Docket No. FDA-2015-N-3469. See 80 FR 65770 and the guidance, *Interim Policy on Compounding Using Bulk Drug Substances Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.

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- 216 • A minor deviation in radioactivity may include the addition of a supplemental amount of
217 Tc-99m sodium pertechnetate to an FDA-approved kit already containing that ingredient,
218 so that the radiopharmaceutical can be provided to a geographically distant patient with a
219 later use time.
- 220 • A minor deviation in volume may include the use of an additional quantity of normal
221 saline to reduce the concentration of the radiopharmaceutical in cases in which a
222 supplemental amount of Tc-99m sodium pertechnetate has been added, as described
223 above. In such cases, the additional radioactivity may necessitate a corresponding
224 increase in volume so that the quantity of the radiopharmaceutical to be drawn up into a
225 unit-dose syringe can be more precisely measured.
- 226 • A minor deviation in the step-by-step procedures for preparation may be one that results
227 in the same finished radiopharmaceutical, but incorporates improvements in technology,
228 enhanced quality control procedures, or decreased radiation exposure to pharmacy
229 personnel.

230
231 A compounded radiopharmaceutical that is prepared with *minor deviations* from the directions
232 contained in FDA-approved labeling provided by the product's manufacturer may meet the
233 definition of *essentially a copy of an approved drug* under section 503B(d)(2).¹⁸ However, FDA
234 recognizes that for practical reasons radiopharmaceuticals might be compounded with *minor*
235 *deviations* from an approved radiopharmaceutical, including for the reasons listed above. After
236 considering the risks associated with these practices we do not intend to focus enforcement on
237 such compounding. Specifically, FDA does not intend to take action against an outsourcing
238 facility for compounding a radiopharmaceutical that is essentially a copy of an approved drug in
239 violation of section 503B(a)(5) of the FD&C Act, provided that the outsourcing facility:

- 241 • compounds the radiopharmaceutical from FDA-approved radiopharmaceuticals, and not
242 using bulk drug substances;
- 243 • makes *minor deviations* from the approved product labeling, as defined above; and
- 244 • compounds all of its drugs in accordance with all of the other conditions of section 503B
245 and all other applicable statutory and regulatory requirements.

247 **B. Repackaging of Radiopharmaceuticals**

248
249 Outsourcing facilities sometimes receive a prescription or order for a radiopharmaceutical
250 product that differs from an approved radiopharmaceutical only in that it has been repackaged.
251 Repackaged drug products are not eligible for the exemptions provided under section 503B of
252 the Act. In addition, repackaged radiopharmaceuticals are generally not exempt from any of the
253 provisions of the FD&C Act related to the production of drugs, including the premarket

¹⁸ See FDA's draft guidance, *Drug Products That Are Essentially Copies of Approved Drug Products Under Section 503B of the Federal Food, Drug, and Cosmetic Act*. Once finalized, this guidance will describe FDA's current thinking on compounding drug products that are essentially copies of approved drugs under Section 503B.

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254 approval, misbranding, and adulteration provisions of the FD&C Act, including sections 505,¹⁹
255 502(f)(1), and 501(a)(2)(B).

256
257 Below, FDA describes the conditions under which it does not intend to take action regarding
258 violations of certain requirements of the FD&C Act, in the context of radiopharmaceutical
259 repackaging. Specifically, FDA does not intend to take action for violations of sections 505 and
260 502(f)(1)²⁰ if an outsourcing facility repackages radiopharmaceuticals in accordance with all of
261 the conditions described below, and any applicable requirements.²¹

Conditions:

- 263 1. The radiopharmaceutical that is being repackaged is a drug product approved under
264 section 505 of the FD&C Act.
- 265 2. The radiopharmaceutical is repackaged by or under the direct supervision of a licensed,
266 authorized nuclear pharmacist²² in an outsourcing facility that holds a RAM license
267 issued by the NRC or by an Agreement State.
- 268 3. The radiopharmaceutical is repackaged in accordance with applicable CGMP
269 requirements.²³
- 270 4. The radiopharmaceutical being repackaged does not appear on a list of drug products that
271 have been withdrawn or removed from the market for reasons of safety or effectiveness.²⁴
- 272 5. The repackaged radiopharmaceutical is not sold or transferred by an entity other than the
273 entity that repackaged such radiopharmaceutical. For purposes of this condition, a sale or
274 transfer does not include administration of a repackaged radiopharmaceutical in a health
275 care setting.
- 276 6. The repackaged radiopharmaceutical is distributed only in States in which the production
277 of the radiopharmaceutical meets all applicable State requirements.

¹⁹ But see *U.S. v. Kaybel*, 430 F.2d 1346 (3d Cir. 1970), holding that repackaging of approved Enovid (estrogen) tablets from large bottles into small bottles did not require pre-approval under Section 505 of the FD&C Act.

²⁰ See footnote 8.

²¹ Applicable requirements include, for example, the requirement that manufacturers not adulterate a drug product by preparing, packing, or holding the drug product under insanitary conditions. See Section 501(a)(2)(A) of the FD&C Act.

²² See definition of an *authorized nuclear pharmacist* at 10 CFR § 35.2.

²³ See FDA's draft guidance, *Current Good Manufacturing Practice — Interim Guidance for Human Drug Compounding Outsourcing Facilities Under Section 503B of the FD&C Act*. Once final, this guidance will describe FDA's expectations regarding outsourcing facilities and the CGMP requirements in 21 CFR parts 210 and 211 until more specific CGMP regulations for outsourcing facilities are promulgated.

²⁴ See 21 CFR 216.24.

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- 286 7. The radiopharmaceutical is repackaged in accordance with all applicable requirements of
287 the NRC (e.g., labeling requirements²⁵) by a facility that meets all applicable
288 requirements of the NRC, and the nuclear pharmacist who repackages or supervises the
289 repackaging of the radiopharmaceutical meets all applicable NRC requirements.
290
- 291 8. The label on the immediate container (primary packaging, e.g., the syringe) of the
292 repackaged radiopharmaceutical includes the following:
293 a. The statement “This radiopharmaceutical was repackaged by [name of outsourcing
294 facility].”
295 b. The address and phone number of the outsourcing facility that repackaged the
296 radiopharmaceutical.
297 c. The established name of the original, approved radiopharmaceutical that was
298 repackaged.
299 d. The lot or batch number of the repackaged radiopharmaceutical.
300 e. The dosage form and radioactive dose of the repackaged radiopharmaceutical.
301 f. A statement of either the quantity or volume of the repackaged radiopharmaceutical,
302 whichever is appropriate
303 g. The date the radiopharmaceutical was repackaged
304 h. The BUD of the repackaged radiopharmaceutical
305 i. Storage and handling instructions for the repackaged radiopharmaceutical
306 j. The National Drug Code (NDC) number of the repackaged radiopharmaceutical, if
307 available²⁶
308 k. The statement “Not for resale,” and, if the repackaged radiopharmaceutical is
309 distributed by an outsourcing facility other than pursuant to a prescription for an
310 individual identified patient, the statement “Office Use Only”
311 l. A list of the active and inactive ingredients, unless such information is included on
312 the label for the container from which the individual units are removed, as described
313 below in condition 9.a.
314
- 315 9. The label on the container from which the individual units are removed for administration
316 (secondary packaging (e.g., the bag, box, or other package in which the repackaged
317 products are distributed)) includes:
318 a. The active and inactive ingredients, if the immediate drug product label is too small
319 to include this information
320 b. Directions for use, including, as appropriate, radioactive dosage and administration,
321 and the following information to facilitate adverse event reporting:
322 www.fda.gov/medwatch and 1-800-FDA-1088.
323
- 324 10. The radiopharmaceutical is included on a report submitted to FDA each June and
325 December identifying the drug products repackaged by the outsourcing facility during the
326 previous 6-month period, and providing the active ingredient(s); source of the active

²⁵ See 10 CFR 20.1904.

²⁶ The NDC number of the original approved drug product should not be placed on the repackaged drug product.

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327 ingredient(s); NDC number of the source ingredient(s), if available; the dosage form and
328 route of administration; the package description; the number of individual units
329 produced; and the NDC number of the final product, if assigned.²⁷
330

331 11. The outsourcing facility reports serious adverse events to FDA that may be associated
332 with its repackaged radiopharmaceuticals.²⁸
333

C. Establishment Registration and Drug Listing

334
335
336 Under section 510(b)(1) of the FD&C Act, between October 1 and December 31 of each year,
337 every person who owns or operates any establishment in any State engaged in the manufacture,
338 preparation, propagation, compounding, or processing of a drug or drugs is required to register
339 with FDA, and under section 510(j) of the FD&C Act, every person who registers with FDA
340 under section 510(b) must list its drugs with the Agency. Outsourcing facilities that are State-
341 licensed pharmacies that compound or repackage radiopharmaceuticals may qualify for an
342 exemption from registration and thus also not be required to list their drugs with FDA.
343 Specifically, under section 510(g)(1), the registration and listing requirements do not apply to:

344
345 pharmacies which maintain establishments in conformance with any applicable local
346 laws regulating the practice of pharmacy and medicine and which are regularly
347 engaged in dispensing prescription drugs or devices, upon prescriptions of
348 practitioners licensed to administer such drugs or devices to patients under the care
349 of such practitioners in the course of their professional practice, and which do not
350 manufacture, prepare, propagate, compound, or process drugs or devices for sale
351 other than in the regular course of their business of dispensing or selling drugs or
352 devices at retail.
353

354 With respect to outsourcing facilities that do not qualify for the exemptions from registration
355 under section 510 of the FD&C Act,²⁹ FDA does not intend to take action under section 502(o)
356 of the FD&C Act for failure to register and list radiopharmaceuticals that are compounded or
357 repackaged in accordance with this guidance.
358
359

²⁷ FDA has issued a draft guidance for industry, *Electronic Drug Product Reporting for Human Drug Compounding Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act*, which describes how outsourcing facilities are to submit drug product reports to FDA. Once finalized, that guidance will represent the Agency's current thinking on that topic. Although that guidance addresses reporting of compounded drug products, outsourcing facilities should follow the same procedure to electronically report the radiopharmaceuticals they repackaged.

²⁸ FDA has issued a guidance for industry, *Adverse Event Reporting for Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act*, which describes how outsourcing facilities are to submit adverse event reports to FDA and the content and format of the reports that they are required to submit. Although that guidance addresses reporting of adverse events associated with compounded drug products, outsourcing facilities should follow the same procedure to electronically report adverse events associated with the radiopharmaceuticals they repackaged.

²⁹ See also, 21 CFR 207.10.

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APPENDIX

The following are the conditions of section 503B that must be met for a compounded drug, including a compounded radiopharmaceutical, to qualify for the exemptions in section 503B of the FD&C Act:

1. The outsourcing facility is in compliance with the registration and reporting requirements of section 503B(b). This includes submitting twice yearly reports regarding the drugs compounded by the outsourcing facility and submitting adverse event reports in accordance with section 503B(b)(5).^{30,31}
2. If the outsourcing facility compounds drugs using one or more bulk drug substances, the bulk drug substances meet the requirements of 503B(a)(2). See the policy described in section II.A.2 of this guidance document.
3. If the outsourcing facility compounds using ingredients other than bulk drug substances, those ingredients must meet certain requirements.³²
4. The outsourcing facility does not compound drugs that appear on a list published by FDA of drugs that have been withdrawn or removed from the market because the drugs or components of such drugs have been found to be unsafe or not effective.^{33,34}
5. The outsourcing facility does not compound drugs that are essentially a copy of one or more approved drugs.³⁵ See the policy described in section II.A.3 of this guidance document.
6. The outsourcing facility does not compound drugs that appear on a list published by FDA of drugs that present demonstrable difficulties for compounding.³⁶

³⁰ See section 301(ccc)(3) of the FD&C Act, which makes it a prohibited act for an entity that is registered in accordance with section 503B(b) to fail to report drugs or adverse events as required.

³¹ See sections 503B(a)(1) and (b); FDA's final guidance documents, *Registration of Human Drug Compounding Outsourcing Facilities Under Section 503B of the FD&C Act* and *Adverse Event Reporting for Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act*; and FDA's draft guidance document, *Electronic Drug Product Reporting for Human Drug Compounding Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.

³² See section 503B(a)(3).

³³ See section 503B(a)(4).

³⁴ The list of drugs that have been withdrawn or removed from the market because such drugs or components of such drugs have been found to be unsafe or not effective (the withdrawn-or-removed list) can be found at 21 CFR 216.24.

³⁵ See section 503B(a)(5) and FDA's draft guidance document, *Drug Products That Are Essentially Copies of Approved Drug Products Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.

³⁶ See section 503B(a)(6). This list has not yet been developed.

Contains Nonbinding Recommendations

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- 389 7. If the outsourcing facility compounds a drug that is the subject of a risk evaluation and
390 mitigation strategy (REMS) approved with elements to assure safe use pursuant to section
391 505-1, or from a bulk drug substance that is a component of such drug, the outsourcing
392 facility must demonstrate to FDA before beginning to compound that it will use controls
393 comparable to the controls applicable under the REMS.³⁷
394
- 395 8. The outsourcing facility's compounded drugs will not be sold or transferred by an entity
396 other than that outsourcing facility.³⁸
397
- 398 9. The outsourcing facility has paid all applicable establishment and reinspection fees owed
399 under section 744(k).^{39,40}
400
- 401 10. The outsourcing facility includes on the labels and labeling of its compounded drug
402 products the information required under section 503B(a)(10).⁴¹
403
- 404 11. All of the outsourcing facility's compounded drugs are compounded in accordance with
405 section 503B.^{42,43}

³⁷ See section 503B(a)(7).

³⁸ See section 503B(a)(8).

³⁹ See section 503B(a)(9).

⁴⁰ See also sections 744J and 744K of the FD&C Act, and guidance for industry, *Fees for Human Drug Compounding Outsourcing Facilities Under Sections 503B and 744K of the FD&C Act*.

⁴¹ See section 503B(a)(10).

⁴² See section 503B(a)(11).

⁴³ See FDA's final guidance, *For Entities Considering Whether to Register as Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act*, and FDA's draft guidance, *Facility Definition Under Section 503B of the Federal Food, Drug, and Cosmetic Act*.