
Developing and Labeling *In vitro* Companion Diagnostic Devices for a Specific Group or Class of Oncology Therapeutic Products

Guidance for Industry

DRAFT GUIDANCE

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**U.S. Department of Health and Human Services
Food and Drug Administration
Oncology Center of Excellence
Center for Biologics Evaluation and Research (CBER)
Center for Devices and Radiological Health (CDRH)
Center for Drug Evaluation and Research (CDER)**

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10903 New Hampshire Ave., Bldg. 71, Room 3128
Silver Spring, MD 20993-0002
Phone: 800-835-4709 or 240-402-8010
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1 **Developing and Labeling *In vitro* Companion Diagnostic Devices for**
2 **a Specific Group or Class of Oncology Therapeutic Products**
3 **Guidance for Industry**
4

5
6 This draft guidance, when finalized, will represent the current thinking of the Food and Drug
7 Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not
8 binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the
9 applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible
10 for this guidance as listed on the title page.
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14
15 **I. INTRODUCTION**
16

17 This guidance describes considerations for the development and labeling of *in vitro* companion
18 diagnostic devices (referred to as “companion diagnostics” herein) to support the indicated uses
19 of multiple drug or biological oncology products,¹ when appropriate. This guidance expands on
20 existing policy, surrounding broader labeling (i.e., labeling that is expanded), which notes that in
21 some cases, if evidence is sufficient to conclude that the companion diagnostic is appropriate for
22 use with a specific group or class of therapeutic products, the companion diagnostic’s intended
23 use/indications for use should name the specific group or class of therapeutic products, rather
24 than specific products.² The specific group or class of oncology therapeutic products would be
25 identified for this purpose based on sufficient and consistent clinical experience with the
26 therapeutics with the same approved indications, including mutation(s) and disease, for which a
27 companion diagnostic could potentially be labeled (as discussed in this document). To describe
28 FDA’s current thinking on this topic, the guidance discusses a specific example, companion
29 diagnostics that identify patients with non-small cell lung cancer (NSCLC) whose tumors have
30 the most common epidermal growth factor receptor (EGFR) mutations, exon 19 deletions or
31 exon 21 (L858R) substitution mutations.
32

33 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.
34 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only
35 as recommendations, unless specific regulatory or statutory requirements are cited. The use of
36 the word *should* in Agency guidances means that something is suggested or recommended, but
37 not required.
38

¹ For purposes of this guidance, drug and biological oncology products are referred to as therapeutic products or oncology therapeutic products.

² FDA’s Guidance for Industry and FDA Staff: *In Vitro Companion Diagnostic Devices*, August 2014, page 11, available at:

<https://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM262327.pdf>.

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39 **II. BACKGROUND**

40
41 A companion diagnostic is an *in vitro* diagnostic device that provides information that is
42 essential for the safe and effective use of a corresponding therapeutic product. The use of a
43 companion diagnostic with a therapeutic product is stipulated in the instructions for use in the
44 labeling of both the companion diagnostic and the corresponding therapeutic product, including
45 labeling of any generic equivalents of the therapeutic product.³

46
47 In oncology, precision medicine (also referred to as “personalized medicine”) aims to match
48 therapeutic products to those patients (and only those patients) who will positively respond to
49 that therapeutic product, to maximize benefits and minimize risks from the therapeutic product
50 received. Precision oncology therefore depends on 1) understanding the molecular
51 pathophysiology of cancer and 2) the ability of companion diagnostics to accurately and reliably
52 detect and measure molecular biomarkers. These companion diagnostics inform both the
53 development and the approved use of therapeutic products.

54
55 Trials designed to support approval of a specific therapeutic product and a specific companion
56 diagnostic have led to companion diagnostic labels that reference only a specific therapeutic
57 product(s). Such specificity in labeling can limit a potentially broader use of a companion
58 diagnostic that may be scientifically appropriate. In some cases, there are multiple companion
59 diagnostics approved by FDA to detect the same mutations in the same specimen type.
60 Similarly, in some cases, there are multiple FDA-approved therapeutics within a specific group
61 or class of oncology therapeutic products (i.e., approved for use in the same indications,
62 including the same mutation(s) and the same disease).⁴ This results in, in some cases, not all of
63 the oncology therapeutic products in a specific group or class being included on all of the labels
64 of approved companion diagnostics to detect mutations that define the specific group or class
65 (see Table 1). FDA is concerned that the current situation is not optimal for patient care because
66 a clinician may need to order a different companion diagnostic (i.e., one that includes other
67 therapeutic products on the label), obtain an additional biopsy(ies) from a patient, or both, to
68 have additional therapy treatment options. FDA is interested in discussing with sponsors
69 wishing to pursue labeling a companion diagnostic to reference a specific group or class of
70 oncology therapeutic products, when the evidence would support expanding the indication.

71
72 An example in precision oncology, which illustrates the issue regarding companion diagnostic
73 labeling in oncology, is the identification of specific EGFR mutations in tumors of patients with

³ FDA has previously issued guidance to define companion diagnostics, clarify the goal of contemporaneous approval of the therapeutic product and the companion diagnostic, provide guidance on premarket regulatory pathways and FDA’s regulatory enforcement policy, and describe statutory and regulatory requirements for labeling; FDA’s Guidance for Industry and FDA Staff: *In Vitro Companion Diagnostic Devices*, August 2014, available at: <https://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM262327.pdf>.

⁴ The specific group or class refers to the indication, mutation(s), and disease that the therapeutic products have in common which is captured in the therapeutic products’ labeling (including sections other than the indication section). A therapeutic product could have other indications than those within the specific group or class that a companion diagnostic is labeled to identify. Likewise, a companion diagnostic could have other intended uses outside of the specific group or class of therapeutic products or for other specimen types. Broader labeling may be appropriate regarding the indications that the specific group or class of therapeutic products have in common.

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74 NSCLC. There are five FDA-approved therapeutic products indicated for the treatment of
75 patients with NSCLC whose tumors have EGFR exon 19 deletions or exon 21 (L858R)
76 substitution mutations as detected by an FDA-approved test: afatinib, gefitinib, erlotinib,
77 osimertinib, and dacomitinib (see Table 1).^{5,6} However, the FDA-approved companion
78 diagnostics that identify these specific mutations in EGFR in tissue samples are only indicated
79 for a subset of the five FDA-approved therapeutic products.

80

81 **Table 1** – FDA approved companion diagnostics labeled for identifying patients with NSCLC
82 whose tumors have EGFR exon 19 deletions or exon 21 (L858R) substitution mutations and the
83 associated therapeutic products listed on the companion diagnostic labels

84

FDA Approved Companion Diagnostics	Therapeutic Products				
	Afatinib	Gefitinib	Erlotinib	Osimertinib	Dacomitinib
Therascreen EGFR RGQ PCR Kit	X	X	-	-	X
Cobas EGFR Mutation Test V2	-	X	X	X	-
Oncomine Dx Target Test	-	X	-	-	-
FoundationOne CDx	X	X	X	-	-

85

86 While EGFR is just an example, it could be possible for companion diagnostics that are
87 adequately validated to detect the biomarker(s) of interest and to identify appropriate patients for
88 treatment to be indicated more broadly for use with a specific group or class of therapeutic
89 products. In this example, the oncology community would be better served by a companion
90 diagnostic that detects EGFR exon 19 deletions or exon 21 (L858R) substitution mutations
91 indicated for “*identifying patients with NSCLC whose tumors have EGFR exon 19 deletions or*
92 *exon 21 (L858R) substitution mutations and are suitable for treatment with a tyrosine kinase*
93 *inhibitor approved by FDA for that indication.*” This could enable greater flexibility for
94 clinicians in choosing the most appropriate therapeutic product based on a patient’s biomarker
95 status. However, labeling for such a broader use is not as simple as just matching diagnostic
96 targets with therapeutic targets. Different diagnostics for the same target may utilize different
97 cut-offs, filters, or other design features that impact the patient populations they identify and,
98 consequently, the likelihood of a biomarker positive patient to respond to a given therapy. Any
99 potential differences must be evaluated to ensure it is clinically appropriate to take a broader
100 labeling approach. See section IV for considerations regarding broader labeling.

101

⁵ For purposes of this example, we are focusing on the indication described in the guidance. However, examples of products in the illustrative example with indications that are outside of the indication described in the illustrative example are 1) afatinib which, at the time of this guidance, is indicated for a broader population, i.e., those “whose tumors have non-resistant epidermal growth factor receptor (EGFR) mutations as detected by an FDA-approved test” and 2) the Cobas EGFR Mutation Test V2 which is also approved for identifying EGFR exon 19 deletions or exon 21 (L858R) substitution mutations in plasma specimens.

⁶ EGFR exon 20 T790M alterations are excluded from the scope of this illustrative example.

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102 **III. DEVELOPMENT AND LABELING OF COMPANION DIAGNOSTICS IN** 103 **ONCOLOGY**

104
105 Some companion diagnostics in oncology could be developed in a way that results in labeling for
106 a specific group or class of oncology therapeutic products. Similarly, for sponsors seeking to
107 broaden the labeling of already approved or cleared companion diagnostics, sponsors may
108 submit a marketing application supplement in support of broader labeling (see section V). These
109 approaches will ensure the resulting evidence-based indication optimally facilitates clinical use.
110 This approach is consistent with FDA’s labeling for *in vitro* diagnostic product regulations which
111 requires, among other things, “the intended use or uses of the product”⁷ be included in the
112 labeling. In addition, this approach aligns with FDA’s guidance regarding therapeutic product
113 labeling, which states that “the therapeutic product labeling should specify use of an FDA
114 approved or cleared IVD companion diagnostic device, rather than a particular manufacturer’s
115 IVD companion diagnostic device. This will facilitate the development and use of more than one
116 approved or cleared IVD companion diagnostic device of the type described in the labeling for
117 the therapeutic product.”⁸

118
119 When it is scientifically appropriate, FDA supports developers of companion diagnostics to
120 develop their products (or pursue broader labeling for approved companion diagnostics) in a way
121 that results in broader labeling for their products (i.e., for a specific group or class of oncology
122 therapeutic products). FDA acknowledges that such an approach may require collaboration with
123 therapeutic product developers and encourages this to enable the companion diagnostic labeling
124 to provide greater flexibility for clinicians in choosing the most appropriate therapeutic product
125 based on a patient’s biomarker status.

126
127

128 **IV. CONSIDERATIONS REGARDING BROADER LABELING**

129
130 The labeling for a companion diagnostic is required to specify its intended use (21 CFR
131 809.10(a)(2)). Therefore, a companion diagnostic that is intended for use with a therapeutic
132 product must specify the therapeutic product(s) for which it has been approved or cleared for use.
133 In some cases, however, if evidence is sufficient to conclude that the companion diagnostic is
134 appropriate for use with a class of therapeutic products, the intended use/indications for use
135 should name the therapeutic class, rather than each specific product within the class.

136
137 FDA recommends that companion diagnostic developers consider a number of factors, including
138 but not limited to those listed below, when determining whether their test could be developed, or
139 the labeling for approved companion diagnostics could be revised through a supplement, to
140 support a broader labeling claim such as use with a specific group or class of therapeutic
141 products (rather than listing an individual therapeutic product(s)). In addition, these
142 considerations include examples of when companion diagnostics may not be appropriate for

⁷ 21 CFR part 809.10(a)(2).

⁸ FDA’s Guidance for Industry and FDA Staff: *In Vitro Companion Diagnostic Devices*, August 2014, page 11, available at:

<https://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM262327.pdf>.

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143 broader labeling because such labeling could lead to incorrect identification of patients for
144 therapeutic treatment. These considerations or factors do not change the relevant regulatory
145 standards for evaluating whether broader labeling should be approved or cleared, including
146 whether any information to support such labeling meets the standard of valid scientific evidence
147 under 21 CFR 860.7(c)(2). When a companion diagnostic has been approved or cleared for use
148 with a therapeutic product(s) in one disease or setting, a PMA supplement or new 510(k), as
149 appropriate, will be needed to expand the companion diagnostic labeling to broaden the
150 indication for use with a specific group or class of oncology therapeutic products in the same
151 disease/setting. We encourage sponsors considering development of a companion diagnostic for
152 broader labeling to meet with CBER, CDRH, or CDER, in coordination with the Oncology
153 Center of Excellence (OCE), as appropriate, early in development, to discuss. Developers of
154 approved companion diagnostics considering broader labeling should contact CDRH or CBER,
155 as appropriate, to discuss (see section V).

156
157 **1. Whether a specific group or class of oncology therapeutic products can be defined**
158 **for which a companion diagnostic will identify an appropriate patient population**
159 **for potential treatment.** A key issue for such development and labeling will be
160 identifying the specific group or class of oncology therapeutic products to be included in
161 the labeling for the companion diagnostic. For the purposes of this guidance, a specific
162 group or class of oncology therapeutic products are those approved for the same
163 indications, including the same mutation(s) and the same disease⁹ for which clinical
164 evidence has been developed with at least one device for the same specimen type for each
165 therapeutic product. Developers should discuss the specific group or class of oncology
166 therapeutic products with CBER, CDRH, or CDER, in coordination with OCE, as
167 appropriate, early in development.

168
169 FDA recognizes that as science evolves, our understanding of the mechanism of action of
170 therapeutic products and of the interaction between therapeutic products and biomarkers
171 will evolve, which may impact how specific groups or classes of oncology therapeutic
172 products are defined. For example, the definition of “wildtype” for RAS, which is
173 included in the labels of drugs such as cetuximab and panitumumab, has significantly
174 changed over time.

175
176
177 **2. Whether there is a detailed understanding of a) the mechanism of action of the**
178 **specific group or class of oncology therapeutic products being considered for use**
179 **with the companion diagnostic and b) the interaction between the therapeutic**
180 **products and the biomarker(s), at the mutation level, detected by the companion**
181 **diagnostic.** The mechanism of action for a therapeutic product can be influenced by a
182 number of factors, including the mutation itself. Therapeutic products may target
183 different areas of a protein and can therefore be differentially influenced by, for example,
184 the resultant tertiary structure changes from various amino acid substitutions. Similarly,
185 a therapeutic product may target a unique genetic alteration or be influenced by
186 surrounding genetic mutations. Additionally, an understanding of the prevalence of the
187 biomarker in the population or the relationship between the expression or level of the

⁹ See footnotes 4 and 5 for additional information regarding the indication(s).

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188 biomarker and the therapeutic response is important and can greatly influence whether it
189 would be scientifically appropriate to consider a broader labeling approach. Having a
190 detailed understanding of the mechanism of action for the therapeutic is critical to
191 support broader labeling identifying the specific class of therapeutics for which a
192 companion diagnostic could be safely and effectively used.

193
194 A detailed understanding of the interaction between the therapeutics and biomarker could
195 be achieved through clinical studies, supported or extended by nonclinical information.
196 The sponsor could use sources of valid scientific evidence as described in 21 CFR
197 860.7(c)(2), such as the therapeutic product labeling or therapeutic product study data or
198 peer-reviewed scientific literature, or the sponsor could perform clinical studies as
199 needed. For example, EGFR exon 19 deletions and exon 21 (L858R) substitution
200 mutations are known to upregulate EGFR phosphorylation and respond to treatment with
201 tyrosine kinase inhibitors of EGFR based on functional studies.¹⁰ Special care, however,
202 should be taken to identify aspects of biomarkers which would exclude them from being
203 included in a group or class. For example, many mutations in EGFR exon 20 are tyrosine
204 kinase inhibitor resistant (e.g., EGFR T790M).

- 205
206
- 207 **3. Whether there is sufficient clinical experience with at least two therapeutic products**
208 **for the same biomarker-informed indications.** The sponsor could utilize currently
209 available information, such as that published in peer-reviewed literature, or perform new
210 clinical studies, if necessary, to show that there is sufficient and consistent clinical
211 experience with the group or class of therapeutic products for the same biomarker-
212 informed indications. There should generally be experience with at least two FDA-
213 approved therapeutic products that would comprise the group or class that the broader
214 companion diagnostic indication would apply to. For example, afatinib, erlotinib,
215 gefitinib, osimertinib, and dacomitinib are all indicated for the treatment of patients with
216 NSCLC whose tumors have EGFR exon 19 deletions or exon 21 (L858R) substitution
217 mutations, so they will all fall under one specific group or class (tyrosine kinase inhibitor
218 indicated for the treatment of patients with NSCLC whose tumors have EGFR exon 19
219 deletions or exon 21 (L858R) substitution mutations). Also, it would not be appropriate
220 to include therapeutic products in this specific group or class that only target resistant
221 mutations, such as EGFR T790M and C797S, for which there may not be sufficient or
222 consistent clinical experience.
 - 223
224
 - 225 **4. Whether analytical validity of the companion diagnostic has been demonstrated**
226 **across the range of biomarkers that inform the indication.** Analytical validity is the
227 ability of a companion diagnostic to perform as intended in terms of its sensitivity,
228 specificity, accuracy, precision, and other relevant performance characteristics using a
229 specified technical protocol. Companion diagnostics that already have an approval or

¹⁰ Lynch TJ, Bell DW, Sordella R, et. al., 2004, Activating Mutations in the Epidermal Growth Factor Receptor Underlying Responsiveness of Non-Small-Cell Lung Cancer to Gefitinib, *NEJM*, 350(21): 2129-39. Pao W, Miller V, Zakowski M, et. al., 2004, EGF Receptor Gene Mutations are Common in Lung Cancers from “Never Smokers” and are Associated with Sensitivity of Tumors to Gefitinib and Erlotinib, *PNAS*, 101(36): 13306-11.

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230 clearance of a test for use with a therapeutic product in a potential group or class can
231 generally leverage the information in their already cleared or approved submission to
232 demonstrate analytical validity of the companion diagnostic across the range of
233 biomarkers that inform the indication. Future sponsors of companion diagnostics that do
234 not already have an approval or clearance of a test for use with a therapeutic product in a
235 potential group or class should demonstrate analytical validity of the companion
236 diagnostic across the range of biomarkers that inform the indication. The sponsor should
237 discuss with CDRH or CBER, as appropriate, to determine the criteria for analytical
238 validation.

239
240 It is important to ensure that the companion diagnostic can detect the specific mutation(s)
241 of interest that would identify which patients would benefit from the therapeutic products
242 that are included in the defined group or class. Using a test that is validated to detect the
243 specific analyte(s) of interest is critical to ensuring that false negative or false positive
244 results are not driving clinical decisions or therapeutic choices. Further, since
245 technologies used to detect a biomarker can vary widely with significant performance
246 differences between them, differences in technology should be considered as some
247 mutations might not be detectable by every technology. For example, a non-trivial
248 difference in discordance rate between next generation sequencing-based mutation
249 profiling and immunohistochemistry could lead to differences in the number of patients
250 identified as biomarker positive depending on the technology used.

251
252
253 **5. Whether clinical validity of the companion diagnostic has been demonstrated with**
254 **the therapeutic products in the disease of interest.** Clinical validity is the ability of a
255 companion diagnostic to identify, measure, or predict the presence or absence of a
256 clinical condition or predisposition for which the companion diagnostic is intended.
257 Companion diagnostics that already have an approval or clearance of a test for use with a
258 therapeutic product in a potential group or class can generally leverage the information in
259 their already cleared or approved submission to demonstrate clinical validity of the
260 companion diagnostic with the therapeutic products in the disease of interest. Future
261 sponsors for companion diagnostics that do not already have an approval or clearance of
262 a test for a therapeutic product in a potential group or class should perform concordance
263 studies with a previously approved companion diagnostic for that indication to
264 demonstrate comparable performance, or the sponsor could choose to do a clinical study
265 establishing the link between the result of the companion diagnostic and patient outcomes
266 for that indication.

267
268 In an evaluation of clinical validity, the defined cut-off for a specific companion
269 diagnostic is important to consider when assessing whether broader labeling is
270 appropriate. For example, a challenge with gene expression tests is that they may have
271 differing thresholds by which a tumor sample is called positive or negative in a specimen.
272 These assays may also have their own scoring algorithm and method of measuring cells
273 which may impact what is needed regarding clinical validation. For companion
274 diagnostics that detect the same marker of interest and have similar analytical
275 performance, different cut-offs may identify different groups of patients. A cut-point that

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276 is set too high could mean that patients will be determined to not be candidates for a
277 therapeutic or the cut-point may be too low and a patient be put on a therapeutic course
278 that confers limited or no benefit.

279
280 We encourage the sponsor to discuss with CDRH or CBER, as appropriate, to determine
281 the criteria for clinical validation to support broader labeling.
282

283 284 **V. PROCESS FOR BROADENING LABELING FOR APPROVED OR CLEARED** 285 **COMPANION DIAGNOSTICS**

286
287 For companion diagnostics that may be appropriate for broader labeling that describes use with a
288 specific group or class of oncology therapeutic products (rather than listing individual
289 therapeutic product names), the companion diagnostic developer should contact CDRH or
290 CBER, as appropriate, to discuss, using the appropriate pathway.¹¹ Such submissions should
291 generally include justification for use with a specific group or class of therapeutic products and
292 valid scientific evidence under 21 CFR 860.7(c)(2) to support the broader labeling claim.

¹¹ Companion diagnostic developers should submit a PMA supplement or a new 510(k), as appropriate. If developers have specific questions, they can also submit a pre-submission request through which developers may obtain information concerning the appropriate submission. See FDA's Guidance for Industry and FDA Staff: *Requests for Feedback on Medical Device Submissions: The Pre-Submission Program and Meetings with Food and Drug Administration Staff*, September 2017, available at: <https://www.fda.gov/ucm/groups/fdagov-public/@fdagov-meddev-gen/documents/document/ucm311176.pdf>.