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4 **Guideline on determination of the need for an MRL**
5 **evaluation for biological substances**
6 **Draft**

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11 evaluation for biological substances

12 **Table of contents**

13 **Executive summary 3**

14 **1. Introduction 3**

15 **2. Scope..... 4**

16 **3. Definitions 5**

17 **4. Legal basis 6**

18 **5. Criteria for the assessment of biological substances concerning the need**
19 **for an MRL evaluation..... 7**

20 5.1. General principle of the approach 7

21 5.2. Step-wise assessment (Overview) 8

22 5.3. Step-wise assessment of chemical-unlike biologicals (Details)..... 9

23 **6. References 13**

24 **Executive summary**

25 Commission Regulation (EU) 2018/782 of 29 May 2018 establishing the methodological principles for
26 the risk assessment and risk management recommendations referred to in Regulation (EC) No
27 470/2009 introduces two groups of 'biologicals, other than immunologicals': while 'chemical-like'
28 biologicals are subject to a standard MRL procedure according to Regulation (EC) No 470/2009,
29 'chemical-unlike' biologicals are evaluated according to the aspects listed in I.7 of Annex I to
30 Commission Regulation (EU) 2018/782 on a case-by-case basis.

31 It is the intention of the guideline to provide a structured and transparent procedure on how to
32 determine the need for an MRL evaluation according to Regulation (EC) No 470/2009 for 'chemical-
33 unlike' biologicals. The substances are individually screened in regard to their possible consumer risks
34 and data requirements are specifically identified according to the nature and properties of the
35 biological under consideration.

36 To this end a step-wise (tiered) approach (decision tree) using a set of consecutive questions/criteria
37 has been developed. The approach allows for a scientifically sound assessment while being sufficiently
38 flexible to deal with a variety of different materials.

39 Two outcomes can result from the assessment procedure: (1) The biological can be added to the list of
40 biologicals¹ if no MRL assessment is considered necessary, (2) An MRL procedure would be necessary if
41 certain properties of the biological reveal that at least some data required for the establishment of
42 MRLs according to Commission Regulation (EU) 2018/782 are needed to address consumer safety.

43 **1. Introduction**

44 Biological substances are a heterogeneous group of compounds used as active ingredients in veterinary
45 medicinal products. According to Regulation (EU) 2019/6, they are substances that are produced by or
46 extracted from a biological source and that need for their characterisation and the determination of
47 their quality a combination of physico-chemical-biological testing, together with knowledge of the
48 production process and its control.

49 Based on their specific nature, the standard assessment approaches currently used for MRL and
50 consumer safety assessment do not always adequately match data needs and assessment
51 requirements for biological substances.

52 It is the intention to provide guidance for determining whether there is the need for an MRL evaluation
53 for a biological substance while ensuring consumer safety, to enable predictability of the assessment
54 needs and to assist the applicant in preparing the information and data needed for such an evaluation.
55 To allow for an assessment on the need for further MRL evaluation, this guideline provides a set of
56 tailored criteria based on the data requirement aspects listed in I.7 of Annex I to Commission
57 Regulation (EU) 2018/782.

58 Biological substances for which it is concluded that an MRL evaluation is not required will subsequently
59 be published by the Agency in a list of such substances¹. Biological substances for which an MRL
60 evaluation is considered necessary need to undergo an MRL procedure according to Regulation (EC) No
61 470/2009 with the aim to be listed in Table 1 of the Annex to Commission Regulation (EU) No
62 37/2010.

¹ Biological substances considered as not requiring an MRL evaluation as per Regulation (EU) 2018/782, with regard to residues of veterinary medicinal products in foodstuffs of animal origin (EMA/CVMP/572629/2019)

63 As immunological active substances are exempted from the need for MRL assessment according to
64 Article 1 point 2 (a) of Regulation (EC) No 470/2009, this guidance concerns 'biological active
65 substances other than immunologicals' only.

66 The guidance provided in this document is largely principles-based and general. However, if, during
67 product development, an applicant wishes to have clarity on precise data requirements for the need of
68 an MRL evaluation for a biological substance relating to a specific VMP, Scientific Advice is available
69 upon request.

70 **2. Scope**

71 The objective of this guideline is to clarify the data requirements and rules for determination of the
72 need for an MRL evaluation for biological non-immunological substances used in VMPs intended for use
73 in food-producing species.

74 According to Commission Regulation (EU) 2018/782, there are two groups of 'biologicals, other than
75 immunologicals' to be distinguished: those that can be characterised as 'chemical-like' and those
76 characterised as 'chemical-unlike'. While the first group is subject to a normal (standard) MRL
77 procedure according to Regulation (EC) No 470/2009, the evaluation of the latter group is to be
78 conducted on a case-by-case basis.

79 This guideline aims to further clarify the terms 'chemical-like' and 'chemical-unlike' and presents a
80 tailored approach allowing for a decision as to whether there is need for an MRL evaluation for a
81 particular substance or not, and to identify the minimum data requirements for consumer safety
82 assessment of 'chemical-unlike' biologicals. The approach takes into account the specific properties of
83 biologicals as well as the fact that the types of studies and assessment approaches used for chemical
84 compounds are not or are only partially applicable for certain biologicals. As this group comprises a
85 variety of different materials the approach was designed to be flexible and to be used for a broad
86 range of biologicals concerned.

87 A report, describing the scientific basis for the request on whether a full MRL evaluation is required or
88 not, needs to be provided by the applicant. This report should be accompanied by the items listed in
89 I.7 (a) to (e) of Annex I to Regulation (EU) 2018/782. The approach described in this guideline is
90 intended to serve as a basis for the applicant to prepare the report and it should also allow for the
91 European Medicines Agency to determine whether there is need for an MRL evaluation.

92 Depending on the outcome of this assessment procedure, biologicals can be included in the list of
93 biologicals considered as not requiring an MRL evaluation¹ or should undergo a regular MRL procedure
94 according to Commission Regulation (EU) No 470/2009 (resulting in a decision on whether and how
95 they can be listed in Table 1 of the Annex to Commission Regulation (EU) No 37/2010). The list of
96 biological substances not requiring an MRL evaluation as well as a summary of assessment of the
97 substance is published on the EMA website.

98 While this guideline aims to allow for determination of the need for an MRL evaluation for biological
99 substances, technical guidance on the conduct of certain studies to meet the requirements of Annex I
100 of Commission Regulation (EU) 2018/782 is not within the scope of this document. The need for such
101 technical guidance may be identified based on the experience gained and lessons learnt from the
102 implementation of this guideline and will be dealt with in follow-up guidance.

103 **3. Definitions**

104 **Biological substance**

105 '*Biological substance*' is defined as a substance that is produced by or extracted from a biological
106 source and that needs for its characterisation and the determination of its quality a combination of
107 physico-chemical-biological testing, together with knowledge of the production process and its control
108 (Article 4(7) of Regulation (EU) 2019/6 of 11 December 2018).

109 The group of biological substances does not contain substances which are chemically synthesized.

110 **Biological veterinary medicinal product**

111 According to Article 4 (6) of Regulation (EU) 2019/6 of 11 December 2018 '*biological veterinary*
112 *medicinal product*' means a veterinary medicinal product where an active substance is a biological
113 substance.

114 **Immunological veterinary medicinal products**

115 According to Article 4 (5) of Regulation (EU) 2019/6 an '*immunological veterinary medicinal product*'
116 means a veterinary medicinal product intended to be administered to an animal in order to produce
117 active or passive immunity or to diagnose its state of immunity.

118 **Biologicals other than immunologicals**

119 'Biologicals other than immunologicals' are *biological substances* according to Article 4 (7) of
120 Regulation (EU) 2019/6, which are not intended to produce active or passive immunity or to diagnose
121 a state of immunity.

122 In the context of this guideline for the purpose of consumer safety assessment, biologicals having an
123 immunological mechanism not targeting pathogens but dealing with internal processes (e.g. antibodies
124 against endogenous proteins) are included in this definition.

125 There are certain biologicals which can neither be clearly assigned to the group of 'immunologicals' nor
126 to the group of 'biologicals other than immunologicals'. This could e.g. be immunomodulators
127 (triggering unspecific immune response) or substances with a mode of action similar to that of
128 immunologicals (stimulation of the immune system to produce antibodies intended to act against
129 endogenous proteins).

130 As they may have unknown properties of concern, they are treated like 'biologicals other than
131 immunologicals' to allow for a consumer safety assessment.

132 **Chemical-like biologicals**

133 According to Commission Regulation (EU) 2018/782 '*chemical-like biologicals*' could be produced by
134 chemical synthesis² and so present similar concerns to chemical substances and can be expected to
135 leave residues in the same way as chemical substances.

136 They do not belong to the group of biologic macromolecules (consisting of carbohydrates, amino acids
137 and nucleic acids), lipids or biological organisms (e.g. cells, bacteriophages) but include substances
138 derived from natural sources (herbal, bacterial, animal origin). Although derived from natural origin, no
139 biological testing is needed for their characterization and/or for control during manufacture as they can
140 be fully described by their physical-chemical properties. They likely have a structural formula and
141 chemical name, a precise (discrete) molecular weight (MW), and a CAS number or other unique

² This is meant to be a substance produced by or extracted from a biological source but whose chemical synthesis is technically feasible.

142 identifiers. They typically have MWs lower than 10^3 . Since they can also be expected to leave
143 residues in the same way as chemical substances and so present similar concerns as chemical
144 substances, they may be subject to residue controls.

145 The group of 'chemical-like biologicals' also includes substances which are chemically or otherwise
146 modified in a second step. The modification needs to be considered in the assessment.

147 Mixtures consisting of several biologicals which contain (at least) one 'chemical-like' lead substance
148 (defined by its chemical structure, its toxicological relevance and/or its relevance as residue(s) in food
149 from animal origin) are assigned to the group of 'chemical-like biologicals'.

150 A number of active substances which were in use for long time in VMPs, like e.g. certain antimicrobial
151 substances, can be assigned to this group.

152 **Chemical-unlike biologicals**

153 According to Commission Regulation (EU) 2018/782 '*chemical-unlike biologicals*' are more complex
154 than chemically synthesized pharmacologically active substances and they may contain multiple types
155 of substances like cells, amino acids, lipids, carbohydrates, nucleic acids and their breakdown products.

156 This group contains biologicals which are typically characterised by their macromolecular nature and
157 properties and a more variable, not precisely defined chemical structure(s) and a complex composition
158 (depending on extraction/purification procedures well as on the source of origin and other factors).
159 They cannot (or not readily) be produced by chemical synthesis and do normally not form residues.

160 Substances covered by the term 'chemical-unlike biologicals' typically belong to the group of biologic
161 macromolecules with MW > than 10^3 , consisting of carbohydrates, amino acids, lipids and nucleic
162 acids, including highly complex combinations composed of these units (e.g. cells, bacteriophages,
163 enzymes and some glycoproteins).

164 They cannot be fully described by their physical-chemical properties and, therefore, additional
165 biological testing is needed for their characterisation and/or for control during manufacture.

166 The group of 'chemical-unlike biologicals' does also include biologic macromolecules which are modified
167 in a second step. The modification needs to be considered in the assessment.

168 **4. Legal basis**

169 Regulation (EC) No. 470/2009 lays down Community procedures for the establishment of residue limits
170 of pharmacologically active substances in foodstuffs of animal origin. Article 1(1)(a) of Regulation (EC)
171 No. 470/2009 defines its scope as follows:

172 "For the purposes of ensuring food safety, this Regulation lays down rules and procedures in order to
173 establish:

174 a) the maximum concentration of a residue of a pharmacologically active substance which may be
175 permitted in food of animal origin (maximum residue limit);"

176 Article 1(2)(a) of the above-referred Regulation states that:

177 "This Regulation shall not apply:

178 a) to 'active principles of biological origin intended to produce active or passive immunity or to
179 diagnose a state of immunity, used in immunological veterinary medicinal products'."

180 Furthermore, Regulation (EU) 2018/782 establishes methodological principles for the risk assessment
181 and risk management recommendations referred to in Regulation (EC) 470/2009.

182 Section I.6 of the annex I to the above-mentioned Regulation provides that "Biological substances
183 other than those identified in Article 1(2)(a) of Regulation (EC) No 470/2009 of the European
184 Parliament and of the Council shall be:

185 (a) subject to normal MRL where the biological substance is chemical-like insofar as it could be
186 produced by chemical synthesis and so presents similar concerns to chemical substances and
187 can be expected to leave residues in the same way as chemical substances (e.g. cytokines,
188 hormones);

189 (b) evaluated on a case-by-case basis where the biological substance is chemical-unlike insofar as
190 being more complex than chemically synthesised pharmacologically active substances and so
191 may contain multiple chemical types whose residues may generally be cells, amino acids,
192 lipids, carbohydrates, nucleic acids and their breakdown products."

193 In addition, section I.7 of the annex I to the same Regulation states that "For chemical-unlike
194 biological substances, a report describing the scientific basis for the request on whether a full
195 MRL evaluation is required or not shall be required together with the following information:

196 (a) the nature of the biological substance (e.g. cell, tissue, live or killed organism) and a
197 comparison with similar biological substances to which consumers are known to be
198 routinely exposed;

199 (b) a description of the mechanism of action underlying the substances therapeutic effect and,
200 if available, information on its potency;

201 (c) the fate of the substance in the treated animal (i.e. is it bioavailable, are residues expected
202 in food commodities);

203 (d) any activity that the substance may have in the human gut (are the residues inactive or do
204 they produce local effects);

205 (e) the systemic availability of residues following ingestion of residues by consumers, along
206 with a worst-case consumer exposure estimate. The information provided above shall be
207 evaluated in accordance with the guidance published by the European Medicines Agency
208 ('Agency') in order to determine whether there is the need for a MRL evaluation. Biological
209 substances for which it is concluded that a MRL evaluation is not required shall be
210 published by the Agency in a list of such substances."

211 This guideline concerns the determination of the need for an MRL evaluation in the context of the
212 above-mentioned sections I.6 and I.7 of Regulation (EU) 2018/782.

213 **5. Criteria for the assessment of biological substances** 214 **concerning the need for an MRL evaluation**

215 ***5.1. General principle of the approach***

216 The approach for determination of the need for an MRL evaluation for 'chemical-unlike' biologicals
217 consists of guiding questions and criteria allowing for applicants to classify their substances and to
218 collect the data required to address consumer safety. The set of step-wise questions has to be applied
219 to each biological to allow for a conclusion on the need for further MRL evaluation.

220 While keeping regulatory requirements to a minimum, the approach aims to be sufficiently flexible and
221 tailored specifically to the information needed to reach a meaningful, scientifically justifiable conclusion
222 in each case. The efforts/requirements to answer the questions can be adapted based on properties of

223 the particular substance. This step-wise approach allows for identification of uncertainties or missing
224 information, which should then be delivered in addition by the applicant.

225 Answers to the set of questions/criteria allow for hazard identification of biologicals with new/unknown
226 properties, which might be of concern in terms of consumer safety. This procedure is conducted by the
227 European Medicines Agency and may result in two possible outcomes (see Figure 1, green boxes):

- 228 - It can be decided that no further MRL assessment is necessary based on the properties of the
229 particular biological substance ("substance with low consumer risk"). This would result in an
230 inclusion of the substance in the list of biologicals¹.
- 231 - If the assessment reveals that an MRL procedure according to Commission Regulation (EU) No
232 470/2009 is necessary, MRL assessment requirements need to be applied to the substance
233 concerned. The MRL procedure can result in inclusion of the biological substance in Table 1 of
234 the Annex to Commission Regulation (EU) No 37/2010.

235 **5.2. Step-wise assessment (Overview)**

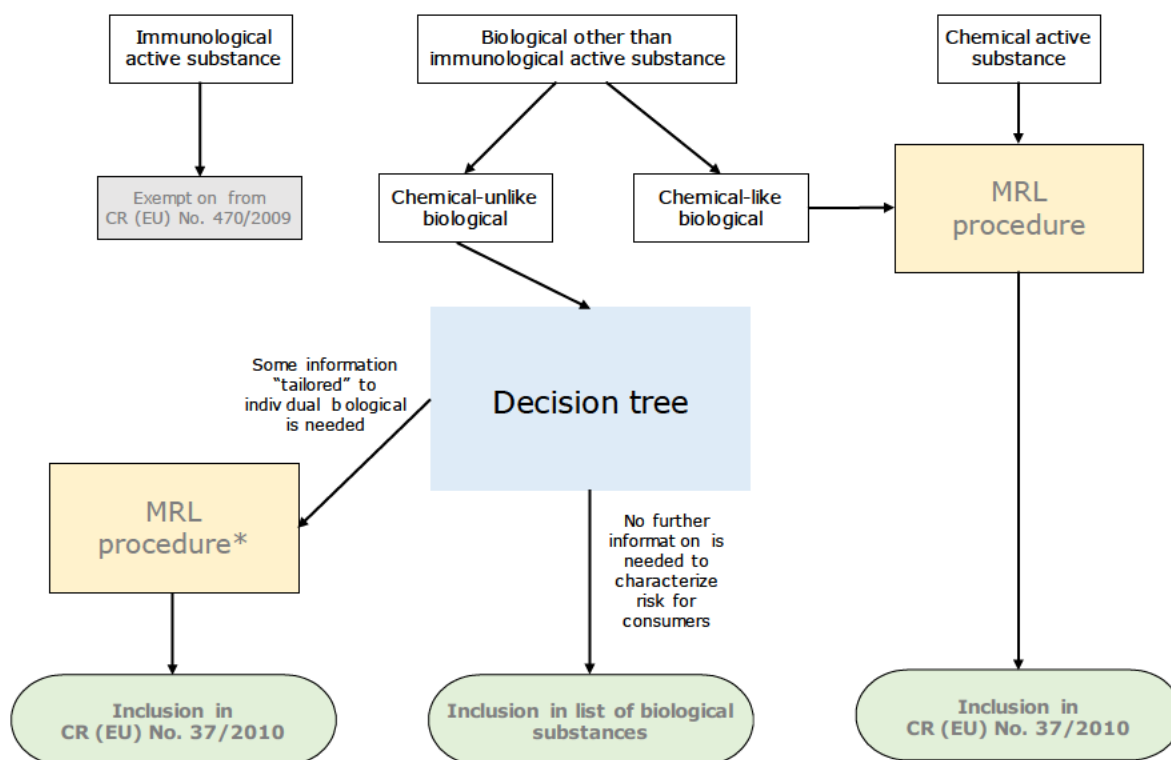
236 A step-wise (tiered) approach has to be applied to each biological to allow for a case-by-case
237 assessment. The approach requires different levels and complexity of information depending on the
238 biological concerned. An overview of the approach is provided in Figure 1.

239 The active substances to be dealt with here are 'biologicals other than immunologicals' or considered
240 as such. Other kinds of active substances (immunologicals and non-biological pharmacologically active
241 substances, also called chemical active substances) are not within the scope of this guideline.

242 Within the group of 'biologicals other than immunologicals' there are two groups of biologicals to be
243 considered (for details on definitions please refer to section 3):

244 (1) 'Chemical-like biologicals' are subject to a standard MRL procedure (yellow box) according to
245 Commission Regulation (EU) 2018/782.

246 (2) 'Chemical-unlike biologicals' shall be assessed on a case-by-case basis according to Commission
247 Regulation (EU) 2018/782. Details for their assessment are outlined in the decision tree (blue box, for
248 details see Figure 2 below).



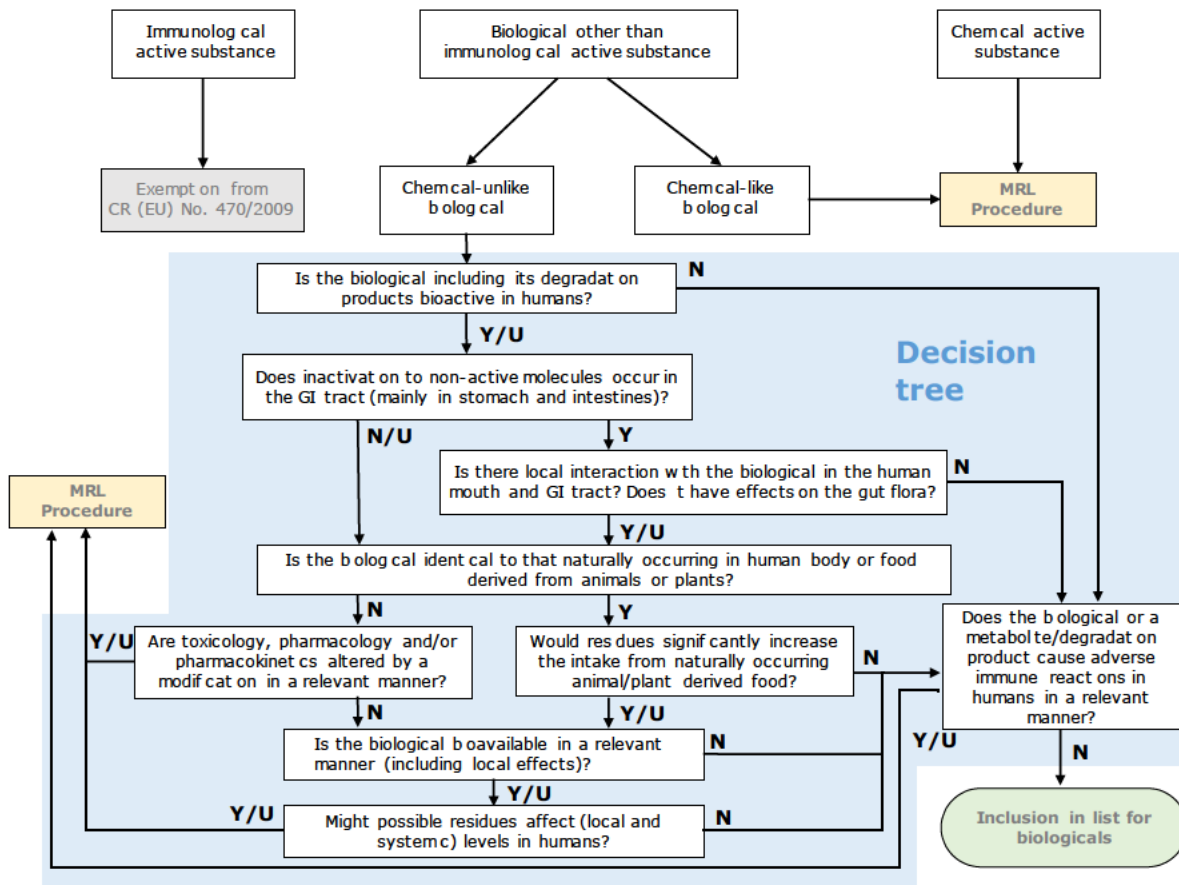
*Requirements to be adapted to the respective biological, possibility to omit some studies in an MRL application if this is justified

249
250 *Figure 1: Stepwise approach for determination of the need for an MRL evaluation (Overview)*

251 **5.3. Step-wise assessment of chemical-unlike biologicals (Details)**

252 For substances considered as 'chemical-unlike biologicals' information from a predetermined set of
253 questions is needed to decide whether these may be added to the list of biological substances or
254 whether they need to undergo a MRL procedure due to consumer safety concerns. Each of the
255 questions can be answered with 'Yes', 'No' or 'Unknown', which then leads to the next question,
256 respectively and eventually to a decision on further action (yellow/green boxes). The inclusion of the
257 'Unknown' category allows for data gaps, nevertheless the approach ensures that relevant information
258 is provided for a conclusion on consumer safety.

259 The set of questions provided below covers the items listed in I.7 (a) to (e) of Annex I to Regulation
260 (EU) 2018/782, except item (b) 'a description of the mechanism of action underlying the substances
261 therapeutic effect and, if available, information on its potency'. Therefore, a brief description of the
262 mechanism of action should be added to the report.



263

264 *Figure 2: Stepwise approach for determination of the need for an MRL evaluation for biological*
 265 *substances (Details)*

266 Y: 'Yes', U: 'Unknown', N: 'No'

267 Questions raised in the decision tree and implications of possible answers concerning relevance for
 268 consumer safety are described below:

269 **Is the biological including its degradation products bioactive in humans?**

270 Information on this aspect might be needed to decide whether the biological itself or its degradation
 271 products may have an impact on physiological processes in the human body. 'Bioactive' means that the
 272 biological can produce an effect (toxicologically, microbiologically or pharmacologically) in humans.

273 If the biological including its degradation products is not bioactive in humans, e.g. based on missing
 274 receptors for the particular substance and no cross-interaction, no (adverse) effects can be expected
 275 and no further data (except information on adverse immune reactions, see below) is needed. If there
 276 are effects of the biological on physiological processes in the human body or if this is unknown, further
 277 information based on the subsequent questions is needed.

278 **Does relevant inactivation to non-active molecules occur in the GI tract (mainly in stomach**
 279 **and intestines)?**

280 If the biological is bioactive in humans, but is inactivated in the gastrointestinal tract, systemic effects
 281 are unlikely to occur. In case of non-complete inactivation, one may consider that possible remaining
 282 concentrations of still potentially active fractions of the biological need to be lower than the relevant
 283 reference value (e.g. naturally occurring concentrations, recommended daily consumption).

284 If the question is answered with 'Yes', possible local interaction needs to be assessed in the following
 285 question. If the biological is not inactivated or if this remains 'Unknown', further information is needed.

286 **Is there local interaction with the biological in the human mouth and/or GI tract? Does it**
287 **have effects on the gut flora?**

288 Since inactivation only occurs during the passage of the gastrointestinal tract, possible local reactions
289 in the respective proximal parts must be taken into account. If there are data available showing that
290 there are no local effects of the biological or its degradation products with mucous membranes of
291 mouth cavity, oesophagus, stomach and/or intestines and that there are no effects on the gut flora, it
292 can be concluded that the biological does not have the potential to cause (harmful) effects in the
293 human body. Its potential to cause adverse immune reactions needs to be checked (see below) before
294 a final conclusion can be drawn.

295 If the available data show (or it remains unknown whether) that there is local interaction, possible
296 effects on the human body need to be further investigated based on the next steps.

297 **Is the biological identical to that naturally occurring in human body or food derived from**
298 **animals or plants?**

299 Biologicals used as active ingredients in VMPs might already naturally occur in the human body or
300 might be part of the normal human diet via food derived from animals or plants. If a biological is
301 foreign to the human body and/or not part of the normal human diet, its properties need to be further
302 assessed concerning their hazard potential whereas for those biologicals naturally occurring in the
303 human body and/or in food a quantitative risk assessment (see next but one step) would be
304 appropriate.

305 **Are toxicology, pharmacology and/or pharmacokinetics altered by the modification in a**
306 **relevant manner?**

307 Modifications (e.g. pegylation, sequence modifications) might lead to e.g. an increase in bioactivity or
308 to longer persistence in the human body both leading to increased or longer lasting effects. Properties
309 of the biological concerning these aspects need to be evaluated to allow for comparison to the
310 unmodified biological and to allow for an assessment of relevance of the modification in terms of
311 consumer safety.

312 Only if toxicology, pharmacology and/or pharmacokinetics are altered by the modification, further data
313 is needed and the biological needs to undergo an MRL procedure. Otherwise the next step in this
314 approach is an assessment concerning bioavailability of the biological (see below).

315 **Would residues significantly increase the concentration naturally occurring in animal/plant**
316 **derived food?**

317 If available data indicate that the biological naturally occurs in the human body and/or food, it needs to
318 be quantitatively assessed whether ingestion of residues in animal derived food would significantly
319 increase the concentrations naturally occurring. Data from studies may be used or otherwise a worst
320 case assessment may be sufficient. I.e. certain information on the amount of residues that may be
321 ingested and on the amount of the biological naturally occurring is needed to allow for comparison.

322 **Is the biological bioavailable in a relevant manner (including local effects)?**

323 Only the bioavailable proportion from an ingested amount of a biological may cause systemic effects in
324 the human body. To assess whether a relevant proportion would become bioavailable, the percentage
325 of bioavailability should be estimated (theoretically, e.g. based on literature) or determined. The
326 possible (total) exposure to possible residues in food (e.g. potential intake via normal diet of a
327 consumer plus residue of biological) should be also considered. This can be a worst-case estimate.
328 Even if bioavailability in humans is low, residues might nevertheless be of importance if huge amounts
329 of the substance might be ingested with food derived from treated animals (e.g. local residues).

330 In any case potential local effects have to be assessed.

331 If the question is answered with 'Yes' or 'Unknown', possible effects would need to be assessed (see
332 next box). If there are data available showing that the biological is not bioavailable in a relevant
333 manner, the potential of the substance to cause adverse immune reactions needs to be checked before
334 a final conclusion on the need for an MRL procedure can be drawn.

335 **Might possible residues affect (local and systemic) levels in humans?**

336 For biologicals which are bioavailable in a relevant manner, possible effects of residues on endogenous
337 levels in humans need to be assessed. If levels in humans are significantly affected (i.e. via residues of
338 naturally occurring substances increasing levels in humans or via residues of foreign substances), data
339 on nature and quantity of possible effects are needed and biologicals like this need to undergo a MRL
340 procedure. If endogenous levels in humans are not significantly affected, residues from a certain
341 biological would not lead to harmful effects.

342 **Does the biological or a metabolite/degradation product cause adverse immune reactions in**
343 **humans in a relevant manner?**

344 The potential of a biological or its metabolites/degradation products to cause adverse immune
345 reactions (e.g. sensitisation, immunodepression, immunostimulation including auto-immunity) in
346 humans needs to be checked for each biological independent from the outcomes of other
347 questions/criteria. As the mechanisms of causing adverse immune reactions are different from other
348 kinds of interaction with the human body and as those reactions might be particularly harmful, adverse
349 immune reactions from ingestion of residues from a biological need to be highly unlikely.

350 Hence, only if available data show that the biological or a metabolite/degradation product are highly
351 unlikely to cause adverse immune reactions in humans or that the risk of adverse immune reaction is
352 not relevantly different compared to ingredients naturally occurring in the particular foodstuff, can the
353 substance be included in the list for biologicals. Otherwise an MRL procedure is needed for further
354 evaluation of consumer safety.

355 After passing through the decision tree, a choice has been reached whether an MRL evaluation is
356 needed or whether the biological can be included in the list for biologicals¹. If the biological under
357 consideration is a mixture of certain biological substances, all relevant residues should be assessed.

358 Scientific data allowing for an assessment of the questions raised in the decision tree are to be
359 provided by the applicant. Published documentation may not be detailed enough to undertake an
360 independent assessment. Inclusion of bibliographic data will, therefore, need a thorough evaluation as
361 to the reliability and relevance of this information.

362 If answers to all questions raised in the decision tree reveal that no MRL evaluation is needed, most
363 likely none of the standard toxicological studies normally required for an MRL evaluation have to be
364 provided.

365 **6. References**

366 The following legislation and CVMP document are relevant to this guideline:

- 367 1. Regulation (EU) 2019/6 of the European Parliament and of the Council of 11 December 2018 on
368 veterinary medicinal products and repealing Directive 2001/82/EC
369 [https://ec.europa.eu/food/animals/health/veterinary-medicines-and-medicated-feed/imp-regs-
370 2019_en](https://ec.europa.eu/food/animals/health/veterinary-medicines-and-medicated-feed/imp-regs-2019_en)
- 371 2. Regulation (EC) No 470/2009 of the European Parliament and of the Council of 6 May 2009 laying
372 down Community procedures for the establishment of residue limits of pharmacologically active
373 substances in foodstuffs of animal origin, repealing Council Regulation (EEC) No 2377/90 and
374 amending Directive 2001/82/EC of the European Parliament and of the Council and Regulation (EC)
375 726/2004 of the European Parliament and of the Council
376 http://ec.europa.eu/health/files/eudralex/vol-5/reg_2009-470/reg_470_2009_en.pdf
- 377 3. Commission Regulation (EU) No 37/2010 of 22 December 2009 on pharmacologically active
378 substances and their classification regarding maximum residue limits in foodstuffs of animal origin
379 [https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02010R0037-
380 20210506&from=EN](https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02010R0037-20210506&from=EN)
- 381 4. Commission Regulation (EU) 2018/782 of 22 May 2018 establishing the methodological principles
382 for the risk assessment and risk management recommendations referred to in Regulation (EC) No
383 470/2009 [https://eur-lex.europa.eu/legal-
384 content/EN/TXT/PDF/?uri=CELEX:32018R0782&from=EN](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32018R0782&from=EN)
- 385 5. Biological substances considered as not requiring an MRL evaluation as per Regulation (EU)
386 2018/782, with regard to residues of veterinary medicinal products in foodstuffs of animal origin
387 (EMA/CVMP/572629/2019) [https://www.ema.europa.eu/en/documents/report/biological-
388 substances-considered-not-requiring-mrl-evaluation-regulation-eu-no-2018/782-regard-residues-
389 veterinary-medicinal-products-foodstuffs-animal-origin_en.pdf](https://www.ema.europa.eu/en/documents/report/biological-substances-considered-not-requiring-mrl-evaluation-regulation-eu-no-2018/782-regard-residues-veterinary-medicinal-products-foodstuffs-animal-origin_en.pdf)