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3 Committee for Veterinary Medicinal Products (CVMP)

4 **Guideline on safety and residue data requirements for**  
5 **applications for non-immunological veterinary medicinal**  
6 **products intended for limited markets but not eligible for**  
7 **authorisation under Article 23 of Regulation (EU) 2019/6**  
8 **Draft**

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## 34 **Executive summary**

35 Regulation (EU) 2019/6 of the European Parliament and of the Council of 11 December 2018 on  
36 veterinary medicinal products (repealing Directive 2001/82/EC) entered into force on 28 January 2019  
37 and is applicable from 28 January 2022 onwards. This regulation introduces specific provisions for  
38 applications for limited markets (Article 4 [29]).

39 Marketing authorisation applications for non-immunological veterinary medicinal products intended for  
40 limited markets, but not eligible for authorisation under Article 23 of Regulation (EU) 2019/6 should  
41 contain comprehensive information on safety as provided for under Annex II of Regulation (EU)  
42 2019/6. However, having regard to the specificities of veterinary medicinal products intended for  
43 limited markets (i.e. the fact that they are intended for diseases that occur infrequently or in limited  
44 geographical areas, or for species other than cattle, sheep for meat production, pigs, chickens, dogs  
45 and cats), and with the aim of promoting availability for such diseases or species, certain adaptations  
46 within Annex II may be acceptable, provided that the data submitted in the dossier are sufficient to  
47 demonstrate the safety of the veterinary medicinal product. It is the intention of the guideline to  
48 highlight flexibility within Annex II and also with regard to other guidance on the data requirements for  
49 safety and residues for this type of application. However, it is recognised that this is not always  
50 feasible as not all scenarios can be addressed in a general guidance document.

### 51 **1. Introduction (background)**

52 The importance of the availability of veterinary medicinal products is well recognised in the EU.  
53 Veterinary medicinal products legislation has been revised with the aim of reducing the administrative  
54 burden, enhancing the internal market and increasing the availability of veterinary medicinal products,  
55 while guaranteeing the highest level of public and animal health and environmental protection.

56 This led to the introduction of specific provisions for limited markets in Regulation (EU) 2019/6 of the  
57 European Parliament and of the Council of 11 December 2018 on veterinary medicinal products  
58 repealing Directive 2001/82/EC (the Regulation). Article 4(29) of the Regulation provides a definition  
59 for limited market and Article 23 allows for the submission of a reduced package of safety and efficacy  
60 data when certain conditions are met.

61 Article 23 of the Regulation states that comprehensive safety or efficacy documentation, as defined in  
62 Annex II of the Regulation, shall not be required for limited markets applications, provided that the two  
63 conditions contained in that same provision are met.

64 Products meeting the 'limited market' definition in Article 4(29) of the Regulation but not meeting the  
65 conditions for limited markets applications listed in Article 23 will require, by default, a comprehensive  
66 set of safety and efficacy documentation in accordance with the requirements in Annex II of the  
67 Regulation.

68 Article 8(1)(b) of the Regulation requires applicants to provide the technical information that is  
69 necessary to demonstrate the quality, safety and efficacy of the veterinary medicinal product.  
70 However, due to the specificities of veterinary medicinal products intended for limited markets (i.e. the  
71 fact that they are intended for diseases that occur infrequently or in limited geographical areas, or for  
72 species other than cattle, sheep for meat production, pigs, chickens, dogs and cats), and with the aim  
73 of promoting availability for such diseases or species there is a practical need for specific scientific  
74 guidance describing how the general data requirements on safety in Annex II can be adapted to  
75 products that meet the definition of limited market in Article 4(29).

76 The guidance provided in this document is general. However, if during product development, an  
77 applicant wishes to have clarity on specific data requirements for an application relating to a specific  
78 VMP, Scientific Advice is available upon request.

## 79 **2. Scope**

80 The purpose of this scientific guidance is to indicate how the general flexibilities provided within Annex  
81 II can be applied to limited market veterinary medicinal products as defined by Article 4(29) of the  
82 Regulation due to the specificities of veterinary medicinal products intended for limited markets (i.e.  
83 the fact that they are intended for diseases that occur infrequently or in limited geographical areas, or  
84 for species other than cattle, sheep for meat production, pigs, chickens, dogs and cats), and with the  
85 aim of promoting availability for such diseases or species. That is, while there is an obligation that the  
86 dossier complies with the requirements of Annex II, when scientifically justified, the general flexibility  
87 vis-à-vis data requirements can be applied for such products within the existing bounds of Annex II.

88 For authorisation of any veterinary medicinal product, it is expected, as a basic principle, that the  
89 safety of the product for the user, the environment and the consumer (in the case of products intended  
90 for food producing animals) will be assured. This may be achieved by the provision of relevant data to  
91 conclude on the safety and, if needed, by applying appropriate measures to mitigate any risks  
92 identified. In the absence of data, potential risks cannot be excluded and, therefore, relevant risk  
93 mitigation measures should be proposed. This principle also applies to limited market products.

94 As safety must always be assured, default waivers from standard Annex II requirements cannot be  
95 identified. However, whilst Annex II provides the high-level requirements, the detailed approaches and  
96 study designs for addressing these requirements are typically described in CVMP and VICH guidelines.  
97 Some flexibility always exists in relation to guidelines, with the possibility for applicants to provide  
98 scientific justification for deviating from these guidelines. In light of the background to this guideline  
99 provided in the Introduction, the CVMP will take particular care to give full consideration to arguments  
100 for deviating from safety guideline recommendations and, wherever possible, to look upon these in the  
101 most favourable light.

## 102 **3. Legal basis**

103 This guideline should be read in conjunction with Regulation (EU) 2019/6, in particular Article 8(1)(b),  
104 Article 23 and Annex II.

105 Applicants should also refer to other relevant European and VICH guidelines listed in the references  
106 section.

## 107 **4. Applications for authorisations for veterinary medicinal** 108 **products other than biologicals (pharmaceuticals)**

### 109 ***4.1. Safety data requirements***

110 The requirements for Marketing Authorisations for pharmaceuticals are detailed in Annex II of  
111 Regulation (EU) 2019/6 where some flexibility is already envisaged. Any omission of safety data shall  
112 be scientifically justified.

113 In lieu of safety studies, literature data including European public MRL assessment reports (EPMARs) or  
114 MRL summary reports may be used, provided that the data they contain are not subject to protection

115 of technical documentation having regard to Articles 38 to 40 of Regulation (EU) 2019/6 or that  
116 permission to access those data is granted by the data owner. These data can also be used for  
117 marketing authorisation applications intended for non-food producing species, if available. General  
118 requirements for published studies are outlined in Annex II of Regulation (EU) 2019/6.

119 It is recognised that existing literature studies may not always satisfy current GLP or guideline  
120 standards and that published documentation may not be detailed enough to undertake an independent  
121 assessment. Inclusion of bibliographic data will need, therefore, a thorough evaluation as to the  
122 reliability and relevance of this information.

123 Summaries of studies for which detailed reports are not available shall not be accepted as valid  
124 documentation.

125 The above principles apply the same way to limited market applications under article 8 and to non-  
126 limited market applications under article 8.

#### 127 **4.1.1. Pharmacological data**

128 Pharmacological studies conducted in experimental animals and target species, or reliable bibliographic  
129 data (see section 4.1) adequately describing the mechanism of action and the fate of the active  
130 substance and its metabolites shall be included. Cross reference may be made, if applicable, to studies  
131 submitted in Part 4 of the dossier. This applies the same way to limited market applications under  
132 article 8 and to non-limited market applications under article 8.

#### 133 **4.1.2. Toxicological data**

134 When there is no MRL Summary Report or EPMAR/bibliographic data available, toxicological studies are  
135 required for the evaluation of user safety and the assessment of adverse effects in the target species.  
136 Even when an MRL Summary Report or EPMAR is available additional data might be needed in rare  
137 cases due to the route of exposure.

138 Potential exposure of the user associated with administration, such as exposure by inhalation, dermal  
139 contact or accidental self-injection should be considered. The omission of studies should be adequately  
140 justified.

141 Regarding repeat-dose toxicity, a study in one species of laboratory animal shall normally be sufficient.  
142 This study may be replaced by a study conducted in the target animal, if all relevant information to  
143 perform the User Risk Assessment is available from this study. CVMP/VICH guidelines should be  
144 followed and the toxicological tests themselves should be conducted in accordance with the relevant  
145 OECD guidelines or other internationally recognised guidelines and any deviation should be justified.  
146 This applies to limited market applications under article 8 and to non-limited market applications under  
147 article 8 but deviations from guidelines may be more easily accepted for limited market applications.  
148 No general recommendation can be given in this regard. Deviations will be assessed on case-by-case  
149 basis.

#### 150 **4.1.3. User safety assessment**

151 For authorisation of any veterinary medicinal product, the safety of the product for the user shall be  
152 assured. A user risk assessment, including risk management proposals if needed, must be submitted  
153 for all limited market applications.

154 Information from safety data should be used for risk assessment. Generally, the principles of the user  
155 safety guideline (EMA/CVMP/543/03-Rev.1) and/or the guideline on user safety of topically  
156 administered products (EMA/CVMP/SWP/721059/2014) should be applied. The assessment should  
157 include a discussion of the effects found in the pharmacological and toxicological data and relate these  
158 to the type and extent of human exposure (i.e. acute or chronic) to the final veterinary medicinal  
159 product with a view to formulating appropriate user warnings.

160 As indicated in EMA/CVMP/543/03-Rev.1, it is noted that for some endpoints standardised methods  
161 are currently not available, in particular for parenteral toxicity and respiratory sensitisation. However,  
162 for parenteral toxicity, target animal safety studies may provide adequate information on local and  
163 systemic effects following this route of exposure. Data on skin sensitisation may serve as a surrogate  
164 for respiratory sensitisation, in the absence of appropriate methods.

165 For toxicity studies on local effects, the formulation of the product should be preferably used. However,  
166 in the interest of reduced testing in animals, if there are only historical data or published literature on  
167 the ingredients in the formulation, the potential effects of a product can be deduced from these data.

168 The need for any additional studies depends on the exposure and any identified gaps in data and in  
169 some cases, the nature of the substances indicates the need to focus on specific endpoints of toxicity  
170 or pharmacology.

171 Whenever possible, available information on the severity of an effect at the anticipated exposure levels  
172 should be taken into account as well. If such information is not available, it must be assumed that the  
173 effects will occur at any exposure level.

174 To account for uncertainty in extrapolating animal data to humans (inter-species variability), the  
175 variation in sensitivity among humans (inter-individual variability), quality of data, severity of  
176 response, differences in exposure (route, duration, frequency) compared to that applied in the study  
177 from which the toxicological reference values were derived, or other concerns; a numerical factor  
178 applied to a toxicological (pharmacological /microbiological) endpoint can be applied. These factors  
179 may be default values used in the absence of specific information on a substance and may be modified  
180 in the light of specific information. When alternative factors are proposed, consideration must be given  
181 to the guidance document published by the IPCS/WHO (IPCS/WHO, 2005).

182 When there is a predicted risk for the user, appropriate measures for risk reduction should be proposed  
183 and evaluated.

184 The above principles apply to limited market applications under article 8 and to non-limited market  
185 applications under article 8.

#### 186 **4.1.4. Environmental safety**

##### 187 **4.1.4.1. For food producing species**

188 In line with VICH GL 6, the assessment stops at Question 4, and further new Environmental Risk  
189 Assessment (ERA) is not required for a Limited Market application providing that the following  
190 conditions are met:

- 191 a. An ERA is available for a product containing the concerned active substance/s, and this ERA has  
192 been carried out in line with VICH GL 6 and GL 38, and the CVMP/VICH GL in support of GL 6 and  
193 38 (EMA/CVMP/ERA/418282/2005). The existing ERA must have been previously assessed and  
194 accepted in a member state, or by the CVMP.

- 195 b. The available ERA belongs to the same applicant or access rights should have been granted. All  
196 data have to be made available in the Limited Market application.
- 197 c. The target species of the Limited Market application is reared in similar conditions as the target  
198 species of the available ERA and the primary release is to the same environmental compartment as  
199 the available ERA, i.e. soil, water, dung.
- 200 d. The environmental exposure and the total administered dose of the Limited Market application is  
201 not higher than the one in the available ERA. Species-based exposure refinements (e.g. based on  
202 metabolism or on degradation in manure) can only be extrapolated to the Limited Market species  
203 of concern if the applicant is able to scientifically substantiate the similarities between the rearing  
204 and metabolism between both species. If this cannot be done, the refinements used in the existing  
205 ERA cannot be considered.
- 206 e. Any risks identified in the available ERA have to be considered for the Limited Market application.  
207 This includes environmental information included in product literature, such as risk mitigation  
208 measures and disposal advice present.

209 If any of these requirements are not fulfilled, the limited market application should be accompanied by  
210 an ERA carried out in compliance with the current guidance.

211 The above applies the same way for limited market applications under article 8 and under article 23.

#### 212 **4.1.4.2. For non-food producing species**

213 In accordance with VICH GL6 and the Guideline on environmental impact assessment for veterinary  
214 medicinal products in support of the VICH guidelines GL6 and GL38 (EMA/CVMP/ERA/418282/2005-  
215 Rev.1- Corr), the assessment stops at question 3 and no further assessment will be required, in  
216 principle, for non-food producing animals.

217 This applies to all applications.

#### 218 **4.2. Residue data requirements**

219 Food derived from other species than cattle, sheep for meat production, pigs and chickens usually  
220 constitutes a small proportion of the diet of the average European consumer. It may nevertheless,  
221 constitute a significant portion of the intake of animal derived products in certain geographic areas or  
222 certain subpopulations and, therefore, consumer safety must be guaranteed.

223 The requirements for marketing authorisations for pharmaceuticals are detailed in Annex II of  
224 Regulation (EU) 2019/6, where some flexibility is already envisaged. Any omission of residue data or  
225 the inclusion of an alternative approach to setting withdrawal periods shall be indicated and discussed.  
226 Residue depletion studies aim to permit the determination of withdrawal periods necessary to ensure  
227 that no residues, which may constitute a hazard for consumers, are present in foodstuffs obtained from  
228 treated animals.

229 The withdrawal period refers to, and is dependent on, the specific formulation, species, route of  
230 administration and dosing regimen (relevant are the highest dose and longest duration indicated for a  
231 particular species) of a veterinary medicinal product (VMP).

232 Guidelines with specific requirements on setting withdrawal periods on limited market species as fish  
233 (VICH GL57) and bees (VICH GL56) should be followed. Other guidelines on setting withdrawal periods  
234 do not differentiate between limited or non-limited market species.



235 Studies in mammals and birds shall be performed according to VICH GL48 and other relevant  
236 guidelines since this will lead to the optimum (i.e. shortest safe) withdrawal period. However, having  
237 regard to these limited market products and with the aim of promoting availability, certain adaptations  
238 within Annex II may be acceptable, provided that the data submitted in the dossier are sufficient to  
239 demonstrate the consumer safety of the veterinary medicinal product.

240 Therefore, if residue data entirely in accordance with these guidelines are available for a related  
241 specie(s) for the VMP concerned and all the following conditions are met:

- 242 – the pharmacokinetic of the VMP is comparable between species,
- 243 – the active substance contained in the VMP has the same MRL in both (limited and non-limited  
244 market) species, or a lower MRL in the non-limited market species,
- 245 – the route of administration is identical,
- 246 – the dose and volume of injection, if applicable, are no greater than those administered in the non-  
247 limited market species,

248 residue depletion studies might not be necessary and the extrapolation of withdrawal periods from the  
249 related species might be accepted. In this case a justified additional minimum safety factor 1.5) should  
250 be used to compensate for possible species differences (e.g. cattle to goats).

251 If the abovementioned conditions are met, a reduced residue depletion study to confirm the withdrawal  
252 period of the related species could be also accepted, provided that any deviation from the guideline  
253 approach (e.g., reduction in the number of slaughter times or reduced data in selected withdrawal  
254 period determining tissue(s)) is scientifically justified and supported by adequate data. A safety factor  
255 might be necessary.

256 Additional residue data are always needed for products having a potential to leave local residues (in  
257 particular injectable products administered intramuscularly and/or subcutaneously as well as  
258 dermal/intramammary applications, as described in relevant bioequivalence guideline  
259 EMA/CVMP/016/2000). However, a reduced residue depletion study to confirm the withdrawal period  
260 could be accepted if scientifically justified. A safety factor might be necessary.

261 The above principles of extrapolation apply to limited market applications under article 8.

262 For compounds for which it was not necessary to establish numerical MRLs (substances which are  
263 classified as 'No MRL required' in Table 1 of the Annex to Commission Regulation (EU) No 37/2010),  
264 the Guideline on determination of withdrawal periods for edible tissues (EMA/CVMP/SWP/735325/2012  
265 Rev.2\*) provides the recommendations to select other reference values that may be used.

266 For the residue depletion study (studies) with the VMP concerned, the analytical method shall be  
267 performed in accordance with VICH GL 49. The analytical method shall have regard to the state of  
268 scientific and technical knowledge at the time the application is submitted. This applies to all  
269 applications.

270 In any case, provisions concerning protection of technical documentation (especially according to  
271 Articles 38 to 40 of Regulation (EU) 2019/6) are applicable. Reference to pharmacokinetic and residue  
272 data of EPMARs (e.g. data underlying the withdrawal period) can only be made if the data used are not  
273 protected or if applicants have otherwise legal access to the data. This applies to all applications.



## 274 **5. Applications for authorisations for biological veterinary** 275 **medicinal products other than immunologicals**

276 Biological veterinary medicinal products other than immunological veterinary medicinal products  
277 contain an active biological substance, which is produced by or extracted from a biological source and  
278 that needs for its characterisation and for the determination of its quality a combination of physico-  
279 chemical-biological testing, together with knowledge of the production process and its control. The  
280 data requirements for Marketing Authorisations as given in the Annex II of Regulation (EU) 2019/6 and  
281 the CVMP/(V)ICH Safety guidelines were considered. Generally, the data requirements for safety  
282 testing (i.e., pharmacology and toxicology) are identical to the requirements for pharmaceuticals (see  
283 respective chapters). However, flexibility in the data requirements is already allowed for all biologicals,  
284 independently of their limited market status. Furthermore, the flexibility envisaged for pharmaceutical  
285 products intended for limited markets is also applicable to biological products intended for limited  
286 markets.

287 Also, for establishment of withdrawal periods for biological 'limited market' VMPs, the same principles  
288 as laid down for pharmaceuticals 'limited market' can be applied.

### 289 **Definitions**

290 For the purpose of the present guideline, the following definitions apply:

#### 291 **Limited market**

292 According to Article 4(29) of Regulation (EU) 2019/6, "*Limited market*' means a market for one of the  
293 following medicinal product types:

294 (a) *veterinary medicinal products for the treatment or prevention of diseases that occur infrequently or*  
295 *in limited geographical areas;*

296 (b) *veterinary medicinal products for animal species other than cattle, sheep for meat production, pigs,*  
297 *chickens, dogs and cats*".

#### 298 **Limited market product eligible for Article 23**

299 Where the applicant provides evidence that a veterinary medicinal product is intended for a limited  
300 market **and** the benefit of the availability on the market of that product to the animal or public health  
301 outweighs the risk inherent in the fact that certain documentation has not been provided (satisfies the  
302 conditions under Article 23(1)(a) of Regulation (EU) 2019/6).

#### 303 **Limited market product as defined by Article 4(29), but not eligible for Article 23**

304 Where the applicant provides evidence that a veterinary medicinal product is intended for a limited  
305 market **but** the benefit of the availability on the market of the veterinary medicinal product to the  
306 animal or public health does not outweigh the risk inherent in the fact that certain documentation has  
307 not been provided (does not satisfy the conditions under Article 23(1)(a) of Regulation (EU) 2019/6).

#### 308 **Biological veterinary medicinal product**

309 According to Article 4 (6) of Regulation (EU) 2019/6 of 11 December 2018 'Biological veterinary  
310 medicinal product' means a veterinary medicinal product where an active substance is a biological  
311 substance.

312 Biological substance is defined as 'a substance that is produced by or extracted from a biological  
313 source and that needs for its characterisation and the determination of its quality a combination of

314 physico-chemical-biological testing, together with knowledge of the production process and its control'  
315 (Article 4(7)).

### 316 **Immunological veterinary medicinal products**

317 According to Article 4 (5) of Regulation (EU) 2019/6 an 'Immunological veterinary medicinal product'  
318 means a veterinary medicinal product intended to be administered to an animal in order to produce  
319 active or passive immunity or to diagnose its state of immunity.

### 320 **Withdrawal period**

321 According to Article 4 (34) of Regulation (EU) 2019/6 'withdrawal period' means the minimum period  
322 between the last administration of a veterinary medicinal product to an animal and the production of  
323 foodstuffs from that animal which under normal conditions of use is necessary to ensure that such  
324 foodstuffs do not contain residues in quantities harmful to public health.

## 325 **References**

326 The following legislation, guidelines and notes for guidance are relevant to this guideline:

- 327 1. Regulation (EU) 2019/6 of the European Parliament and of the Council of 11 December 2018 on  
328 veterinary medicinal products and repealing Directive 2001/82/EC  
329 <https://eur-lex.europa.eu/eli/reg/2019/6/oj>
- 330 2. Commission Delegated Regulation (EU) 2021/805 of 8 March 2021 amending Annex II to  
331 Regulation (EU) 2019/6 of the European Parliament and of the Council  
332 <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32021R0805&from=EN>
- 333 3. Concept paper on scientific guidelines for limited market products deemed not eligible for  
334 authorisation under Article 23 of Regulation 2019/6 (EMA/CVMP/435071/2021)  
335 [https://www.ema.europa.eu/en/documents/scientific-guideline/concept-paper-scientific-guidelines-limited-market-products-deemed-not-eligible-authorisation-under/6\\_en.pdf](https://www.ema.europa.eu/en/documents/scientific-guideline/concept-paper-scientific-guidelines-limited-market-products-deemed-not-eligible-authorisation-under/6_en.pdf)
- 337 4. Guideline on data requirements for applications for immunological veterinary medicinal products  
338 intended for limited markets submitted under Article 23 of Regulation (EU) 2019/6 -  
339 (EMA/CVMP/59531/2020)
- 340 5. Guideline on efficacy and target animal safety data requirements for applications for non  
341 immunological veterinary medicinal products intended for limited markets submitted under Article  
342 23 of Regulation (EU) 2019/6 - (EMA/CVMP/52665/2020)
- 343 6. Guideline on safety and residue data requirements for applications for non-immunological veterinary  
344 medicinal products intended for limited markets submitted under Article 23 of Regulation (EU)  
345 2019/6 - (EMA/CVMP/345237/2020)
- 346 7. Guideline on user safety for pharmaceutical veterinary medicinal products (EMA/CVMP/543/03-  
347 Rev.1)
- 348 8. Guideline on user safety of topically administered veterinary medicinal products  
349 (EMA/CVMP/SWP/721059/2014)
- 350 9. VICH GL48: Studies to evaluate the metabolism and residue kinetics of veterinary drugs in food-  
351 producing animals: marker residue depletion studies to establish product withdrawal periods

- 352 10. VICH GL56: Studies to evaluate the metabolism and residue kinetics of veterinary drugs in food-  
353 producing animals: study design recommendations for residue studies in honey for establishing MRLs  
354 and withdrawal periods (EMA/CVMP/VICH/176637/2014)
- 355 11. VICH GL57: Studies to evaluate the metabolism and residue kinetics of veterinary drugs in  
356 food-producing species: marker residue depletion studies to establish product withdrawal periods in  
357 aquatic species (Draft: EMA/CVMP/VICH/517152/2013)
- 358 12. VICH GL49: Studies to evaluate the metabolism and residue kinetics of veterinary drugs in food-  
359 producing animals: validation of analytical methods used in residue depletion studies  
360 (EMA/CVMP/VICH/463202/2009)