



1 21 July 2023  
2 EMA/CVMP/EWP/56030/2023  
3 Committee for Veterinary Medicinal Products (CVMP)

4 **Concept paper on the revision of the guideline for the**  
5 **demonstration of efficacy of ectoparasiticides**

6

Agreed by the CVMP's Efficacy Working Party (EWP-V)	June 2023
Adopted by the Committee for Veterinary Medicinal Products (CVMP) for release for consultation	13 July 2023
Start of public consultation	21 July 2023
End of consultation (deadline for comments)	31 October 2023

7

8 The proposed guideline will replace the current "Guideline for the demonstration of efficacy of  
9 ectoparasiticides" ([7AE17a](#)).

10 Comments should be provided using this [template](#). The completed comments form should be sent to [vet-guidelines@ema.europa.eu](mailto:vet-guidelines@ema.europa.eu)

10

<b>Keywords</b>	<b><i>Ectoparasites, veterinary medicinal products, ectoparasiticides, efficacy</i></b>
-----------------	---

11

12



## 13 **1. Introduction**

14 The current guideline for veterinary medicinal products for the demonstration of efficacy of  
15 ectoparasiticides (7AE17a) was adopted in September 1994. The objective of this guideline is currently  
16 stated as *"to provide specific guidance in respect of the documentation of the efficacy of*  
17 *ectoparasiticides. It should be read in conjunction with Directive 81/852/EEC as amended, and the*  
18 *note for guidance on Good Clinical Practice for the conduct of clinical trials on veterinary medicinal*  
19 *products in the European Union"*.

20 The current guidance document addresses the general data requirements to support the efficacy of  
21 ectoparasitidal veterinary medicinal products and sets overall efficacy thresholds and the method  
22 used to calculate efficacy.

23 The current guidance outlines the general requirements in terms of the type(s) of (pre-)clinical studies  
24 to be submitted in support of efficacy and gives special recommendations for products used topically  
25 and for prolonged delivery systems such as collars.

26 There are also currently three species-specific guidelines that set out data requirements to  
27 demonstrate efficacy of ectoparasiticides in cattle, sheep, dogs and cats, namely,

- 28 - Guidelines on specific efficacy requirements for ectoparasiticides in cattle (EMA/CVMP/625/03-Rev.1)
- 29 - Guidelines on specific efficacy requirements for ectoparasiticides in sheep (EMA/CVMP/411/01-Rev.1)
- 30 - Guideline for the testing and evaluation of the efficacy of antiparasitic substances for the treatment  
31 and prevention of tick and flea infestation in dogs and cats (EMA/CVMP/EWP/005/2000-Rev.4).

## 32 **2. Problem statement**

33 Given that scientific knowledge has developed since the current guideline for veterinary medicinal  
34 products on the demonstration of efficacy of ectoparasiticides (7AE17a) was adopted in September  
35 1994 and also given the changes in regulatory requirements and the experiences gained in assessment  
36 of data submitted for the purpose of demonstrating efficacy of ectoparasitidal products, it is  
37 considered appropriate that the current guideline is updated. In particular, the guidance document  
38 should be updated to use more up-to-date terminology, for example, by replacing reference to  
39 terminology such as 'control' of infestations, or 'dose titration'.

40 In addition, it is considered appropriate that the guidance is updated to include reference to current  
41 legislation, relevant guidelines and the 3Rs principles (Replacement, Reduction and Refinement) when  
42 designing/conducting efficacy studies. Specifically, the guidance document also requires updating to  
43 ensure consistency with the definitions provided in Regulation (EU) 2019/6 and the content of Annex II  
44 to Regulation (EU) 2019/6.

45 Considering the need to reduce the risk of development of antiparasitic resistance, it is considered  
46 appropriate that the guidance is updated to take into consideration factors that may affect risk for  
47 resistance development and to provide recommendations for minimising such risks when designing and  
48 conducting pre-clinical efficacy studies and clinical trials.

49 Approaches to calculate and assess efficacy (use of arithmetic mean, geometric mean or other suitable  
50 measure of central tendency and selection of appropriate efficacy thresholds) should preferably be  
51 clarified so that a consistent approach to the presentation and subsequent assessment of efficacy data  
52 is ensured.

53 Also, guidance relevant to demonstrate efficacy of combination ectoparasiticide products should be  
54 included.

55 It is recommended that the revised guideline will also provide as far as is possible, recommendations  
56 on adopting a consistent approach to the wording of indications for comparable products in order to  
57 facilitate user understanding of the efficacy that has been demonstrated for the concerned products  
58 and their correct use. In addition, the revised guideline should provide recommendations on the  
59 evaluation of the onset of efficacy and the duration of efficacy for the prevention of re-infestations,  
60 where needed, to ensure appropriate use.

61 As there are a number of species-specific CVMP guidelines already available that set out detailed  
62 efficacy requirements for cattle, sheep, dogs and cats, it is considered appropriate that the current  
63 guideline for veterinary medicinal products for the demonstration of efficacy of ectoparasiticide should  
64 be kept at a general level to be read in conjunction with species-specific guidelines which provide more  
65 detailed guidance and information. However, it is proposed that the title of the guideline will be  
66 updated to a more appropriate title, such as 'Guideline for the evaluation of efficacy of  
67 ectoparasiticide - general requirements'.

68 It would also be beneficial to clarify the approach in case of generic/hybrid antiparasitic veterinary  
69 medicinal products for which bioavailability studies cannot be used to demonstrate bioequivalence.

### 70 **3. Discussion (on the problem statement)**

71 As the current guideline for veterinary medicinal products for the demonstration of efficacy of  
72 ectoparasiticide (7AE17a) was adopted two decades ago (September 1994), it is considered  
73 appropriate that the guideline is updated to reflect current scientific knowledge and regulatory  
74 practices. The experiences gained in the submission and assessment of data for ectoparasiticide  
75 veterinary medicinal products should be taken into account when updating the guideline.

76 The thresholds for efficacy cited in the guideline are not fully consistent with those mentioned in some  
77 of the species-specific CVMP guidelines and should therefore be harmonised and updated accordingly.

78 Reference is made to outdated legislation (Directive 81/852/EEC) and use is made of terminology that  
79 is no longer consistent with the definitions and terminology used in Regulation (EU) 2019/6 or its  
80 Annex II. For example, reference is made to the 'control of infestations' whereas more suitable  
81 terminology consistent with current assessment practices and approved indications should be used.  
82 Consequently, the guideline requires updating to refer to and be consistent with current legislation,  
83 regulatory requirements, definitions and terminology.

84 Cross-references to other applicable technical and scientific guidelines will be made.

85 Given the intention to take into account the 3Rs principles in the EU as detailed in Directive  
86 2010/63/EU and as stated in the EMA position on the application of the 3Rs in the regulatory testing of  
87 human and veterinary medicinal products, it is considered appropriate that the guideline is updated to  
88 include reference to those principles when considering the design and conduct of studies to be  
89 submitted in support of the evaluation of efficacy of ectoparasiticide veterinary medicinal products.

90 In accordance with Article 4(19) of Regulation (EU) 2019/6, the risk relating to the development of  
91 resistance is part of the evaluation of the 'benefit-risk balance' of a product, which will be reflected in  
92 the product information. Therefore, the product information should include provisions regarding the  
93 use of antiparasitic veterinary medicinal products in order to limit the risk of development of  
94 resistance. Furthermore, section II.4A2 of Annex II to Regulation (EU) 2019/6 indicates that  
95 information on current resistance (if applicable) and on the potential emergence of resistance of clinical

96 relevance for the claimed indication in the target animal species shall be provided as part of an  
97 application for a marketing authorisation for an antiparasitic veterinary medicinal product.  
98 Consequently, it is considered appropriate that the guideline should include general guidance on  
99 factors that may affect risk for resistance development and provide recommendations on how to take  
100 account of those factors to minimise risk of resistance development when designing and conducting  
101 pre-clinical efficacy studies and clinical trials.

102 The current guideline indicates that efficacy may be calculated using the arithmetic mean, the  
103 geometric mean or other suitably transformed mean (providing such transformation is suitably  
104 justified), whereas species-specific guidelines are more prescriptive on this aspect with some  
105 prescribing that efficacy should be determined based on arithmetic means. To ensure a consistent  
106 approach to the evaluation of efficacy of ectoparasitocidal veterinary medicinal products, it is  
107 considered appropriate that the guideline is updated to ensure consistency with species-specific CVMP  
108 guidelines and accepted regulatory approaches to demonstrating efficacy.

109 Given the interest in developing combination veterinary medicinal products that include  
110 ectoparasitocidal active substances, it is recommended that the guideline is updated to provide  
111 guidance on the general approach to evaluating efficacy of such ectoparasitocidal products and in  
112 particular, on the necessity to ensure that the intended use of such products avoids superfluous  
113 administration of active substances and thereby minimises unnecessary exposure to active substances  
114 that may, as a consequence, contribute to the development of antiparasitic resistance.

115 In light of the experience gained since the publication of the current guideline, it is evident that  
116 indications for comparable products may sometimes differ substantially (unnecessarily). It is  
117 recommended that the revised guideline will consider as far as is possible, recommendations on  
118 adopting a consistent approach to the wording of indications in order to ensure consistency between  
119 product information and to facilitate user understanding of the efficacy that has been demonstrated for  
120 the concerned products. That is, where possible, a consistent approach to the wording of indications  
121 should be recommended. As part of this consideration, it is proposed that general guidance on the  
122 approach to evaluating the onset of efficacy and the duration of efficacy for the prevention of re-  
123 infestations should be provided where appropriate in order to make it clear to the prescriber/user as to  
124 the expected efficacy of the product.

125 In the case of generic/hybrid antiparasitic veterinary medicinal products for which bioavailability  
126 studies cannot be used to demonstrate bioequivalence, it is proposed that the guideline provides  
127 clarification on the number and type of studies required to demonstrate efficacy of the product.

## 128 **4. Recommendation**

129 The CVMP recommends the revision of the existing guideline for the demonstration of efficacy of  
130 ectoparasitocides (7AE17a) in order to provide clearer guidance and to align the guideline with current  
131 scientific and regulatory requirements, as outlined above.

## 132 **5. Proposed timetable**

133	21 July 2023	Concept paper released for consultation
134	31 October 2023	Deadline for comments from interested parties
135	Q2 2024	Expected date for adoption of the draft revised guideline by CVMP for release for 136 consultation
137	Q4 2024	Expected end of consultation on the draft revised guideline
138	Q2 2025	Expected date for adoption by CVMP and publication of the revised guideline

## 139 **6. Resource requirements for preparation**

140 Revision of the guideline will involve two EWP-V rapporteurs and three co-rapporteurs.

141 Preparation of the draft revised guideline will require discussion at two EWP-V plenary meetings.

142 Drafting group meetings (virtual) will be organised, as needed.

## 143 **7. Impact assessment (anticipated)**

144 The revision of the guideline is expected to improve the guidance for applicants as well as for  
145 regulatory authorities. It is not intended to increase the requirements for marketing authorisation  
146 applications for veterinary medicinal products.

## 147 **8. Interested parties**

- 148 • Veterinary pharmaceutical industry and regulatory consultants;
- 149 • EU regulatory authorities involved in the assessment of marketing authorisation applications for  
150 veterinary medicinal products;
- 151 • Veterinary organisations and professional bodies;
- 152 • Scientific veterinary associations.

## 153 **9. References to literature, guidelines, etc.**

154 Regulation (EU) 2019/6 of the European Parliament and of the Council of 11 December 2018 on  
155 veterinary medicinal products and repealing Directive 2001/82/EC

156 Guideline for the Demonstration of efficacy of ectoparasiticides (7AE17a)

157 Guidelines on specific efficacy requirements for ectoparasiticides in cattle (EMA/CVMP/625/03-Rev.1)

158 Guidelines on specific efficacy requirements for ectoparasiticides in sheep (EMA/CVMP/411/01-Rev.1)

159 Guideline for the testing and evaluation of the efficacy of antiparasitic substances for the treatment  
160 and prevention of tick and flea infestation in dogs and cats (EMA/CVMP/EWP/005/2000-Rev.4)

161 Guideline on the summary of product characteristics for antiparasitic veterinary medicinal products  
162 (EMA/CVMP/EWP/170208/2005-Rev.1)

163 Questions and answers on the 'Guideline on the summary of product characteristics for antiparasitic  
164 veterinary medicinal products' - EMA/CVMP/EWP/170208/2005-Rev.1 (EMA/CVMP/EWP/799840/2022)

165 Guideline on statistical principles for clinical trials for veterinary medicinal products (pharmaceuticals)  
166 (EMA/CVMP/EWP/81976/2010-Rev.1)

167 Good Laboratory Practice (GLP) (see Directive 2004/9/EC and Directive 2004/10/EC)

168 VICH Topic GL9 (GCP): Guideline on Good Clinical Practices (CVMP/VICH/595/1998)

169 Guideline on the principles of regulatory acceptance of 3Rs (replacement, reduction, refinement)  
170 testing approaches (EMA/CHMP/CVMP/JEG-3Rs/450091/2012)

171 Q&A document on requirements for pre-clinical studies submitted in support of a marketing  
172 authorisation application for a veterinary medicinal product (EMA/CVMP/565615/2021-Rev.1)