

Bundesamt für Sicherheit im Gesundheitswesen BASG

MUTUAL RECOGNITION PROCEDURE

PUBLICLY AVAILABLE ASSESSMENT REPORT FOR A VETERINARY MEDICINAL PRODUCT

Vetmedin Chew 1.25 mg chewable tablets for dogs Vetmedin Chew 2.5 mg chewable tablets for dogs Vetmedin Chew 5.0 mg chewable tablets for dogs Vetmedin Chew 10 mg chewable tablets for dogs

(former: Pimovita)

AT/V/0015/001-004/MR

(former: HU/V/0122/001-004/MR)

Last update: 12.11.2019

Modules 1-3 reflect the scientific discussion for the approval of Vetmedin Chew 1.25 mg chewable tablets for dogs, Vetmedin Chew 2.5 mg chewable tablets for dogs, Vetmedin Chew 5.0 mg chewable tablets for dogs and Vetmedin Chew 10 mg chewable tablets for dogs. The procedure was finalised on 25/02/2015. For information on changes after this date please refer to module 4.

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MODULE 1

PRODUCT SUMMARY

EU Procedure number	AT/V/0015/001-004/MR
Name, strength and pharmaceutical form	Vetmedin Chew 1.25 mg chewable tablets for dogs Vetmedin Chew 2.5 mg chewable tablets for dogs Vetmedin Chew 5 mg chewable tablets for dogs Vetmedin Chew 10 mg chewable tablets for dogs
Applicant	Boehringer Ingelheim Vetmedica GmbH Binger Straße 173 Ingelheim Am Rhein 55216 Germany
Active substance(s)	Pimobendan
ATC Vetcode	QC01CE90
Target species	Dogs
Indication for use	For the treatment of canine congestive heart failure originating from dilated cardiomyopathy or valvular insufficiency (mitral and/or tricuspid valve regurgitation). For the treatment of dilated cardiomyopathy in the preclinical stage (asymptomatic with an increase in left ventricular end-systolic and end-diastolic diameter) in Doberman Pinschers following echocardiographic diagnosis of cardiac disease.

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Vetmedin chewable tablets for dogs

Publicly available assessment report

MRP

Boehringer	Ingelheim	Vetmedica	GmbH
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MODULE 2

Characteristics (SPC) for this product The Summary of Product¹ is available on the Heads of Veterinary Medicines Agencies website (http://www.HMA.eu).

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MODULE 3

PUBLIC ASSESSMENT REPORT

Legal basis of original application	AT/V/0015/001/MR and HU/V/0122/004/MR are hybrid applications in accordance with Article 13 (3) of Directive 2001/82/EC as amended.
	AT/V/00015/002-003/MR are generic applications in accordance with Article 13 (1) of Directive 2001/82/EC as amended.
Reference medicinal product	Vetmedin 2,5 mg resp. 5 mg – Kapseln für Hunde
	marketed by Boehringer Ingelheim Vetmedica GmbH
Date of completion of the original mutual recognition procedure	25/02/2015
Date product first authorised in the Reference Member State (MRP only)	18/10/2014
Concerned Member States for original procedure	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom

I. SCIENTIFIC OVERVIEW

The product is produced and controlled using validated methods and tests, which ensure the consistency of the product released on the market.

It has been shown that the product can be safely used in the target species; the slight reactions observed are indicated in the SPC.

The product is safe for the user, and for the environment, when used as recommended. Suitable warnings and precautions are indicated in the SPC.

The efficacy of the product was demonstrated according to the claims made in the SPC. The overall risk/benefit analysis is in favour of granting a marketing authorisation.

II. QUALITY ASPECTS

A. Qualitative and quantitative

particulars

The product (one chewable tablet) contains 250 mg pimobendan as active substance, and the excipients (lactose monohydrate, microcrystalline cellulose, pregelatinised starch, sodium starch glycolate (Type A), Macrogol 6000, stearoyl macrogoglycerides, dried yeast, liver powder flavour, talc and magnesium stearate).

The container/closure system is heat sealed Polyamide/Aluminium/PVC blister strip containing 10 tablets.

The choice of the formulation is justified.

The product is an established pharmaceutical form and its development is adequately described in accordance with the relevant European guidelines.

B. Method of Preparation of the Product

The product is manufactured fully in accordance with the principles of good manufacturing practice at a licensed manufacturing site.

Process validation data on the product have been presented in accordance with the relevant European guidelines.

C. Control of Starting Materials

The active substance is pimobendan, an established active substance described in the No. 2179 monograph European Pharmacopoeia. The active substance is manufactured in accordance with the principles of good manufacturing practice.

The active substance specification is considered adequate to control the quality of the material. Batch analytical data demonstrating compliance with this specification have been provided.

Scientific data and certificates of analysis have been provided and compliance with the Note for Guidance on Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products has been satisfactorily demonstrated.

D. Control on intermediate products

The tests performed during production are described and the results of 3 consecutive runs, conforming to the specifications, are provided.

E. Control Tests on the Finished Product

The finished product specification controls the relevant parameters for the pharmaceutical form. The tests in the specification, and their limits, have been justified and are considered appropriate to adequately control the quality of the product.

Satisfactory validation data for the analytical methods have been provided.

Batch analytical data from the proposed production site have been provided demonstrating compliance with the specification.

F. Stability

Lack of stability data on the active substance have been justified having regard to the provided CEP of the active substance manufacturer.

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G. Other Information

Process validation report, analytical validation reports, CEP of the active substance.

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III. SAFETY AND RESIDUES ASSESSMENT (PHARMACO-TOXICOLOGICAL)

As this is a generic application according to Article 13, and bioequivalence with a reference product has been demonstrated, results of safety and residue tests are not required.

III.A Safety Testing

Pharmacological Studies

Pharmacodynamics

Since the application was made in accordance with Article 13(a) of Directive 2001/82/EC, for Vetmedin Chew as a generic of the reference product, Vetmedin, submission of data on pharmacodynamics are not required.

Pharmacokinetics

Since the application was made in accordance with Article 13(a) of Directive 2001/82/EC, for Vetmedin Chew as a generic of the reference product, Vetmedin, submission of data on pharmacokinetics are not required.

Essential similarity of Vetmedin Chew and Vetmedin chewable tablets has been demonstrated after the evaluation of in vivo and in vitro dissolution data.

Toxicological Studies

Since the application was made in accordance with Article 13(a) of Directive 2001/82/EC, as a generic application, the submission of the results of toxicological tests are not required because the toxicological characteristics of the test and the reference product are the same.

Observations in Humans

Pimobendan was used for the treatment of human heart failures, after its effect was discovered in 1990. It is a class III. phosphodiesterase inhibitor, a benzimidazole derivative. It was extensively tested for the treatment of moderate and severe heart failure (Rector and Cohn, 1992.) It was only registered in Japan, because some symptoms appeared to be sustained in patients receiving pimobendan. Milrinone and amrinone in the same class III inhibitor family proved to be more efficacious than pimobendan.

Pimobendan has a positive inotropic effect, vascular and airway dilation and inhibition of platelet aggregation. (In: Goodman & Gilman's The Pharmacological Basis of Therapeutics, Ninth Edition 1996.) See below: 3.A.5. User safety

User Safety

The applicant has provided a user safety assessment in compliance with the relevant guideline which shows that the potential risk to the user posed by Vetmedin Chew 1.25 mg, 2.5 mg, 5 mg and 10 mg Chewable Tablets will not be any greater than that posed by the reference product.

Warnings and precautions as listed on the product literature are adequate to ensure safety to users of the product.

Environmental Risk Assessment

Phase I

The environmental risk assessment can stop in Phase I because Vetmedin Chew 1.25 mg, 2.5 mg, 5 mg and 10 mg chewable Tablets are recommended for individual treatment of non-food animals,

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Conclusion

Based on the data provided, the ERA can stop at Phase I. The product is not expected to pose an unacceptable risk for the environment when used according to the SPC.

III.B Residue Testing

As the product of Vetmedin Chew 1.25 mg, 2.5 mg, 5 mg and 10 mg chewable tablets are only used for treatment of dogs (i.e. non-food producing animals), this part of the safety documentation is not relevant.

IV. CLINICAL ASSESSMENT (EFFICACY)

As this is a generic application according to Article 13, and bioequivalence with a reference product has been demonstrated, efficacy studies are not required. The efficacy claims for this product are equivalent to those of the reference product.

The in vivo bioequivalence of the 5 mg strength of Vetmedin Chew with the concerning 5 mg strength of Vetmedin as reference product has been demonstrated in dogs while in vitro bioequivalence data were presented for additional strengths.

IV.A Pre-Clinical Studies

Pharmacology

Pharmacodynamics

The application is submitted in accordance with Article 13 of Directive 2001/82/EC. For a generic veterinary medicinal product, pharmacodynamic data are not required as they have already been presented for the reference product.

Pharmacokinetics

The application is submitted in accordance with Article 13 of Directive 2001/82/EC. For a generic veterinary medicinal product, information on pharmacokinetics is not required as it has already been presented for the reference product.

Tolerance in the Target Species of Animals

Being a generic application, target species tolerance studies are not required as they have already been presented for the reference product.

IV.B Clinical Studies

Laboratory Trials

The applicant has conducted in vitro bioequivalence (dissolution) studies which show similarity to those of the reference product.

Field Trials

The applicant has conducted a GLP cross-over bioequivalence study in dogs following a single oral administration of Vetmedin 5 mg Chewable Tablets (reference item) and Vetmedin Chew 5 mg Chewable Tablets (test item). Based on the results obtained from the study, the test item and the reference item were found bioequivalent in dogs, since the 90% confidence interval

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V. OVERALL CONCLUSION AND BENEFIT- RISK ASSESSMENT

The data submitted in the dossier demonstrate that when the product is used in accordance with the Summary of Product Characteristics, the risk benefit profile for the target species is favourable and the quality and safety of the product for humans and the environment is acceptable.

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MODULE 4

POST-AUTHORISATION ASSESSMENTS

The SPC and package leaflet may be updated to include new information on the quality, safety and efficacy of the veterinary medicinal product. The current SPC is available on the Heads of Vetrinary Medicines Agencies website (www.HMA.eu).

This section contains information on significant changes which have been made after the original procedure which are important for the quality, safety or efficacy of the product.

Quality changes

Summary of change (Application number)	Approval date
Change in the name of the medicinal product HU/V/0122/1-4/IB/001/G	16/10/2015
RMS-Transfer HU \rightarrow AT/V/0015/001-004/MR	March 2016
Change in the name of the medicinal product ("Pimovita /Pimovita vet. chewable tablets" to "Vetmedin S chewable tablets" and "Vetmedin vet. chewable tablets" in CZ, DK, FI, IS, LT, NO, PL, SE) AT/V/0015/IB/003/G	21/07/2016
Marketing Authorisation Holder (MAH) transfer from formerly ZYLAVET Pharmaceuticals Ltd. to Boehringer Ingelheim Vetmedica (BI) for this product. AT/V/0015/001-4/IB/002	21/07/2016
New indication: treatment of dogs with myxomatous mitral valve disease (MMVD) during the preclinical stage (prior to onset of CHF, ACVIM consensus stage B2) AT/V/0015/001-4/WS/004	20/07/2017
Reduction of the size of the currently marketed alu/alu blisters. AT/V/0015/001/IA/008 AT/V/0015/002/IA/009	05/02/2018
Reduction of the shelf life of the finished product as packaged for sale from 30 months to 2 years AT/V/0015/001-4/IB/010/G	22/07/2018
Change in the name of the veterinary medicinal product in HR only AT/V/0015/001-4/IB/014	06/02/2019
This marketing authorisation was renewed unlimited. (AT/V/0015/001-004/R/001)	12/11/2019

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