



ASSURING THE SAFETY, QUALITY AND EFFICACY
OF VETERINARY MEDICINES

United Kingdom
Veterinary Medicines Directorate
Woodham Lane
New Haw
Addlestone
Surrey KT15 3LS

DECENTRALISED PROCEDURE

**PUBLICLY AVAILABLE ASSESSMENT REPORT FOR A VETERINARY
MEDICINAL PRODUCT**

**Phenyleptil 25 mg Tablets for Dogs
Phenyleptil 100 mg Tablets for Dogs**

Updated: February 2018

**PuAR correct as of 02/04/2019 when RMS was transferred to IE.
Please contact the RMS for future updates.**

MODULE 1

PRODUCT SUMMARY

EU Procedure number	UK/V/0336/003/DC UK/V/0336/004/DC
Name, strength and pharmaceutical form	Phenoleptil 25 mg Tablets for Dogs Phenoleptil 100 mg Tablets for Dogs
Applicant	Le Vet B.V. Wilgenweg 7 3421 TV Oudewater The Netherlands
Active substance	Phenobarbital
ATC Vetcode	QN03AA02
Target species	Dogs
Indication for use	Prevention of seizures due to generalised epilepsy in dogs.

MODULE 2

The Summary of Product Characteristics (SPC) for this product is available on the Heads of Medicines Agencies (veterinary) (HMA(v)) website (www.hma.eu).

MODULE 3

PUBLIC ASSESSMENT REPORT

Legal basis of original application	Extension application in accordance with Directive 2001/82/EC as amended.
Date of completion of the original decentralised procedure	24 th October 2012.
Date product first authorised in the Reference Member State (MRP only)	Not applicable.
Concerned Member States for original procedure	Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Norway, Poland, Portugal, Slovakia, Spain, Sweden.

I. SCIENTIFIC OVERVIEW

This was a line extension application to existing marketing authorisations for Phenoleptil 12.5 mg Tablets for Dogs and Phenoleptil 50 mg Tablets for Dogs, in order to add 25 mg and 100 mg products to the range. Bioequivalence was assured by means of suitable dissolution studies. Phenoleptil 25 mg Tablets for Dogs and Phenoleptil 100 mg Tablets for dogs are authorised for use in dogs for the prevention of seizures due to generalised epilepsy. Each tablet contains 25 mg or 100 mg of phenobarbital as an active substance. The dosage rate of phenobarbital is 2.5 mg per kg body weight twice daily. However, due to differences in phenobarbital excretion and differences in sensitivity among patients the active doses may vary considerably, ranging from 1 mg to 15 mg per kg bodyweight twice daily. Do not use in dogs weighing less than 5 kg bodyweight. Refer to the SPC¹ for information on the adjustment of dose for animals of varying size.

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 benefit/risk analysis is in favour of granting a marketing authorisation.

¹ SPC – Summary of Product Characteristics.

II. QUALITY ASPECTS

A. *Composition*

The product contains phenobarbital as an active substance and lactose monohydrate, microcrystalline cellulose, pig liver flavour, dried yeast from *Saccharomyces*, sodium starch glycolate (Type A), silica colloidal anhydrous and magnesium stearate as excipients.

The product is packaged in aluminium /PVC strips. The products consist of 100 tablets in a cardboard carton containing 10 aluminium/pvc blister strips, each strip with 10 tablets, or 500 tablets in a cardboard carton containing 50 aluminium/pvc blister strips each strip with 10 tablets.

The particulars of the containers and controls performed are provided and conform to the regulation. 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 from 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 supporting data for phenobarbital have been provided in the form of an EDQM² Certificate of Suitability. It is considered that the manufacturing process is adequately controlled and the active substance specification has been suitably justified.

There are six excipients used in the formulation and each has been used previously in veterinary medicines. Lactose monohydrate, microcrystalline cellulose, sodium starch glycolate, silica colloidal anhydrous and magnesium stearate have monographs in the European Pharmacopoeia (Ph. Eur.), and each comply with the requirements of the current edition of the Ph. Eur.

The applicant provided raw material specification for dry beef flavour 201627, comprising tests of appearance, identity and loss on drying. This was considered acceptable for the preparation of the original 12.5 mg and 50 mg products, and was therefore appropriate for the extended products.

² The European Directorate for the Quality of Medicines & HealthCare.

D. Specific Measures concerning the Prevention of the Transmission of Animal Spongiform Encephalopathies

Magnesium stearate is a material that may be sourced from either animal or non-animal sources. A declaration has been provided certifying that the raw materials, ingredients and additives used to produce magnesium stearate are exclusively of synthetic and vegetable origin.

E. Control on intermediate products

Not applicable.

F. 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.

G. Stability

Stability data on the active substance have been provided for eight batches of phenobarbital. Based on the data provided, a retest interval of three years was justified.

Stability data on the finished product have been provided in accordance with applicable European guidelines, demonstrating the stability of the product throughout its shelf life. The shelf-life of the veterinary medicinal product as packaged for sale is 3 years.

H. Genetically Modified Organisms

Not applicable.

J. Other Information

The shelf-life of the veterinary medicinal product as packaged for sale is 3 years. Do not store above 30°C. Keep the container in the outer package in order to protect from light. Divided tablets should be stored in the open blister pack.

III. SAFETY AND RESIDUES ASSESSMENT (PHARMACOTOXICOLOGICAL)

As these were extension applications, and all four tablet types can be considered homothetic, the results of additional pharmacological or toxicological tests were not required.

III.A Safety Testing

User Safety

The applicant provided a user risk assessment (URA) in compliance with the relevant guideline, based on the original URAs which reflected those of the original products. Additional data were provided to support the approval of the 100 mg product.

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

- Warnings and precautions as listed on the product literature are the same as those of the products from which the new products were derived and are adequate to ensure safety of the product to users and the environment.
- People with known hypersensitivity to barbiturates should avoid contact with the veterinary medicinal product. Wash hands after use.
- Take utmost care that children do not come into contact with the product.
- Children are particularly at risk of intoxication which may prove fatal.
- In case of accidental ingestion, seek medical advice immediately and show the package leaflet or the label to the physician. If possible, the physician should be informed about the time and amount of ingestion, as this information may help to ensure that appropriate treatment is given.

Ecotoxicity

The applicant provided a first phase environmental risk assessment in compliance with the relevant guideline which showed that no further assessment was required. The assessment reflected those already approved for the original products.

Warnings and precautions as listed on the product literature are adequate to ensure safety to the environment when the product is used as directed.

IV CLINICAL ASSESSMENT (EFFICACY)

Dissolution studies were required to ensure bioequivalence between four homothetic products. Products used for studies were the 25 mg, 50 mg and 100 mg products. No other data were required.

IV.A Pre-Clinical Studies

Pharmacology

The analysis of dissolution profiles for the 25 mg, 50 mg and 100 mg products were considered suitable to ensure extrapolation of results to *in vivo* situations. Dissolution profiles were studied at three pH conditions: 2.0, 4.5 and 8.0. All products were subjected to a standard study in which relevant variants were controlled. Experiments were performed on a specified number of tablets, in replicate. After suitable analysis of the results, it was concluded that bioequivalence could be confirmed.

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 benefit/risk profile for the target species is favourable and the quality and safety of the product for humans and the environment is acceptable.

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 Product Information Database of the Veterinary Medicines Directorate website.

www.gov.uk/check-animal-medicine-licensed

The post-authorisation assessment (PAA) 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.

The PAA for this product is available on the Product Information Database of the Veterinary Medicines Directorate website.

www.gov.uk/check-animal-medicine-licensed