

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

MUTUAL RECOGNITION PROCEDURE

PUBLICLY AVAILABLE ASSESSMENT REPORT FOR A VETERINARY MEDICINAL PRODUCT

Urilin 40 mg/ml Syrup for Dogs

PuAR correct as of 01/08/2018 when RMS was transferred to IE.

Please contact the RMS for future updates.

MODULE 1

PRODUCT SUMMARY

EU Procedure number	UK/V/0357/001/MR
Name, strength and pharmaceutical form	Urilin 40 mg/ml Syrup for dogs
Applicant	Dechra Limited
Active substance(s)	Phenylpropanolamine hydrochloride
ATC Vetcode	QG04BX91
Target species	Dogs
Indication for use	For the treatment of urinary incontinence associated with acquired urethral sphincter incompetence in the bitch only.
	The efficacy of phenylpropanolamine has only been demonstrated in ovariohysterectomised bitches.

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	Mutual Recognition application in accordance with Article 13(1) of Directive 2001/82/EC, as amended by 2004/28/EC.
Date of completion of the original mutual recognition procedure	28 April 2010
Date product first authorised in the Reference Member State	28 January 2005
Concerned Member States for original procedure	Austria
	Belgium
	Bulgaria
	Czech Republic
	Denmark
	Finland
	France
	Germany
	Greece
	Hungary
	Iceland
	Ireland
	Italy
	Luxembourg
	Netherlands
	Poland
	Portugal
	Slovakia
	Spain
	Sweden

4/11

I. SCIENTIFIC OVERVIEW

Urilin 40 mg/ml Syrup for dogs is authorised for the treatment of urinary incontinence associated with acquired urethral sphincter incompetence in the bitch only. The efficacy of phenylpropanolamine has only been demonstrated in ovariohysterectomised bitches. The dosage rate of phenylpropanolamine is 0.8 mg/kg body weight (equivalent to 1 mg/kg phenylpropanolamine HCL) three times daily in the feed, corresponding to 0.1 ml Urilin syrup/5 kg body weight three times daily. One drop for every 2.34 kg body weight three times daily in feed.

The application was made in accordance with article 13(1) of Directive 2001/82/EC, as amended by Directive 2004/28/EC i.e. application for a generic product. Bioequivalence is claimed with the reference product, Propalin Syrup, which was first marketed in the UK in 1993. Urilin Syrup has been authorised in the UK since January 2005.

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 possible reactions are indicated in the SPC. The product is safe for the user, the consumer of foodstuffs from treated animals 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. Composition

The product contains phenylpropanolamine hydrochloride as an active substance and sodium methyl parahydroxybenzoate (E219), sodium propyl parahydroxybenzoate (E217), maltitol liquid, saccharin sodium, citric acid monohydrate (E330) and purified water as excipients.

The product is supplied in 50 ml or 100 ml amber type III glass bottles containing 45 ml or 100 ml of syrup, with a low density polyethylene dropper and a polypropylene child resistant screw cap.

The particulars of the containers and controls performed are provided and conform to the regulation.

The choice of the formulation is justified.

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 phenylpropanolamine hydrochloride have been provided in the form of a Drug Master File. 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. Sodium methyl parahydroxybenzoate (E219), sodium propyl parahydroxybenzoate (E217), maltitol liquid, saccharin sodium, citric acid monohydrate (E330) and purified water have monographs in the Ph. Eur. and each comply with the requirements of the current edition of the Ph. Eur.

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

There are no substances within the scope of the TSE Guideline present, or used in the manufacture of this product. A declaration states that no starting materials present a risk with regard to TSEs.

E. Control on intermediate products

The manufactured product may be stored in its container for up to 5 days. A bulk intermediate specification is provided and consists of identity tests for the active substance, chloride, the preservatives, pH and specific gravity. The test methods are the same as for the finished product.

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. The satisfactory validation data for the analytical methods have been provided.

G. Stability

Stability data on the active substance have been provided. Based on the data provided, a retest interval of five 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.

The in-use shelf life of 3 months is justified.

H. Genetically Modified Organisms

Not applicable.

J. Other Information

- Do not store above 25°C.
- Keep the container in the outer carton.

III. SAFETY AND RESIDUES ASSESSMENT (PHARMACO-TOXICOLOGICAL)

III.A Safety Testing

Pharmacological Studies

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on pharmacodynamics and pharmacokinetics are not required.

Toxicological Studies

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on toxicology are not required.

Mutagenecity

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required.

Other Studies

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required.

User Safety

The following user warnings are included in the SPC and product literature:

- Phenylpropanolamine hydrochloride is toxic when overdoses are ingested. Adverse effects may include dizziness, headache, nausea, insomnia or restlessness, and increased blood pressure. High overdose may be fatal, especially in children.
- In the event of accidental skin contact, wash the contaminated area with soap and water. Wash hands after use of the product.
- In the event of accidental eye contact, rinse the eye with clean water for about 15 minutes and seek medical advice.
- To avoid accidental ingestion the product must be used and kept out of the reach and sight of children.
- Always replace the cap firmly after use to ensure that the child resistant closure operates correctly.

 In the event of accidental ingestion, seek immediate medical attention showing the doctor the package leaflet.

Ecotoxicity

The applicant has provided a first phase environmental risk assessment in compliance with the relevant guideline.

The assessment ended at Phase I as the product will only be used in dogs on an individual basis and exposure of the environment is not sufficient to require further assessment. The 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)

Pharmacology

Pharmacodynamics

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required.

Pharmacokinetics:

A study was conducted to demonstrate bioequivalence between Urilin 40 mg/ml syrup for dogs and the reference product. The study was carried out to the standards of GLP¹. Bioequivalence was established using ANOVA², and a calculation of 90% confidence intervals for AUC and C_{max}^3 . Confidence intervals calculated from C_{max} and AUC⁴ were within the stipulated range of 80-125%, bioequivalence was therefore established.

Tolerance in the Target Species of Animals

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required.

Resistance

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required. The applicant has submitted PSUR data over the four year period which indicated the safety profile of Urilin syrup in field use.

¹ Good Laboratory Practice

² Analysis of variance

³ Maximum concentration

⁴ Area under the curve

IV.B Clinical Studies

Since the application is made in accordance with Article 13 (1) of Directive 2001/82/EC as amended by Directive 2004/28/EC, on the basis of being a generic of a reference medicinal product, data on this section are not required.

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.



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)