

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

## 1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Eurican L4 suspension for injection

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One dose (1 ml) of suspension contains:

### Active substances:

Inactivated *Leptospira interrogans* serogroup and serovar Canicola strain 16070 ..... Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup and serovar Icterohaemorrhagiae strain 16069 ..... Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup and serovar Grippotyphosa strain Grippo Mal 1540..... Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup Australis and serovar Bratislava strain 16785..... Activity acc. to Ph. Eur.447\*

\* ≥ 80 % protection in hamsters

### Excipients:

Qualitative composition of excipients and other constituents
<i>Potassium chloride</i>
<i>Sodium chloride</i>
<i>Potassium dihydrogen phosphate</i>
<i>Disodium phosphate dihydrate</i>
<i>Water for injections</i>

Opalescent and homogenous suspension.

## 3. CLINICAL INFORMATION

### 3.1 Target species

Dogs

### 3.2 Indications for use for each target species

Active immunisation of dogs from 7 weeks of age to prevent or reduce mortality, clinical signs, infection, bacterial excretion, renal carriage and renal lesions caused by:

- *Leptospira interrogans* serogroup Canicola serovar Canicola,
- *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Icterohaemorrhagiae,
- *Leptospira kirschneri* serogroup Grippotyphosa serovar Grippotyphosa, and
- *Leptospira interrogans* serogroup Australis serovar Bratislava.

Serogroup / Serovar	Indication					
	Mortality	Clinical signs	Infection	Bacterial excretion	Renal carriage	Renal lesions
Canicola / Canicola	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Icterohaemorrhagiae / Icterohaemorrhagiae	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Grippotyphosa / Grippotyphosa	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Australis / Bratislava	Prevention	Prevention	Prevention	Prevention	Prevention	Prevention

\* For *Leptospira interrogans* serovar Canicola, *Leptospira interrogans* serovar Icterohaemorrhagiae and *Leptospira kirschneri* serovar Grippotyphosa the prevention of mortality and clinical signs was not demonstrated at the duration of immunity timepoint.

Onset of immunity: 2 weeks after the second injection of the primary vaccination course for all strains.

Duration of immunity: at least one year after the second injection of the primary vaccination course for all strains.

### 3.3 Contraindications

None.

### 3.4 Special warnings

Vaccinate healthy animals only.

### 3.5 Special precautions for use

Special precautions for safe use in the target species:

Apply usual aseptic procedures.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

None.

Special precautions for the protection of the environment:

Not applicable.

### 3.6 Adverse events

Dogs:

Very Common (>1 animal / 10 animals treated):	Injection site swelling <sup>1</sup> , pruritus <sup>2</sup> , injection site pain and warmth <sup>4</sup> .
Common (1 to 10 animals / 100 animals treated):	Lethargy <sup>3</sup> , anorexia <sup>2</sup> and emesis <sup>2</sup> .
Uncommon (1 to 10 animals / 1,000 animals treated):	Diarrhoea, muscle tremor, vocalisation, hyperthermia <sup>5</sup> , tachycardia and tachypnoea.
Rare (1 to 10 animals / 10,000 animals treated):	Hypersensitivity reactions (facial oedema, urticaria) <sup>6</sup> .

<sup>1</sup> less than 6 cm, disappearing within 8 days

<sup>2</sup> disappearing within 2 days

<sup>3</sup> disappearing within 3 days

<sup>4</sup> disappearing within 4 days

<sup>5</sup> maximum 39.8 °C, disappearing within 1 day.

<sup>6</sup> including anaphylactic shock, which may be life threatening. If such a reaction occurs, appropriate treatment should be administered without delay.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See section “contact details” of the package leaflet.

### 3.7 Use during pregnancy, lactation or lay

Safety data in pregnant bitches vaccinated with Boehringer Ingelheim’s trivalent leptospirosis vaccine containing *Leptospira Canicola*, *Leptospira Icterohaemorrhagiae* and *Leptospira Grippotyphosa* are available and demonstrate that it can be used during pregnancy. For Eurican L4, which contains an additional inactivated strain, *Leptospira Australis*, no safety data in pregnant bitches are available.

### 3.8 Interaction with other medicinal products and other forms of interaction

Safety and efficacy data are available which demonstrate that this vaccine can be mixed with Eurican DAP or Eurican DAPPi / Eurican DHPPi.

Safety and efficacy data are available which demonstrate that this vaccine can be administered on the same day as, but not mixed with Rabisin in dogs from 12 weeks of age.

No information is available on the safety and efficacy of this vaccine when used with any other veterinary medicinal product except the products mentioned above. A decision to use this vaccine before or after any other veterinary medicinal product therefore needs to be made on a case-by-case basis.

### 3.9 Administration routes and dosage

When Eurican L4 is used alone, inject a 1 ml dose subcutaneously.

When Eurican L4 is used as a diluent of Eurican DAP or Eurican DAPPi / Eurican DHPPi, aseptically reconstitute the contents of the lyophilisate with the Eurican L4 vaccine suspension. Mix well before use. The entire contents of the reconstituted vial should be administered as a single dose.

The following schedule should be followed:

Primary vaccination: Two injections separated by an interval of 4 weeks from 7 weeks of age.

Revaccination: Administer one dose 12 months after completion of the primary vaccination course. Dogs should be revaccinated with a single booster dose on an annual basis.

### **3.10 Symptoms of overdose (and where applicable, emergency procedures and antidotes)**

No adverse events other than those mentioned in section 3.6 were observed after administration of a 2-fold overdose. Swelling and pain at the injection site may persist longer after an overdose. These symptoms disappear within at most 22 days and 10 days respectively.

### **3.11 Special restrictions for use and special conditions for use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products in order to limit the risk of development of resistance**

Not applicable.

### **3.12 Withdrawal period(s)**

Not applicable.

## **4. IMMUNOLOGICAL INFORMATION**

### **4.1 ATCvet code: QI07AB01**

Vaccine against *Leptospira* (inactivated) in dogs.

After administration, the vaccine induces an immune response against *Leptospira interrogans* serogroup Canicola, *Leptospira interrogans* serogroup Icterohaemorrhagiae, *Leptospira kirschneri* serogroup Grippotyphosa and *Leptospira interrogans* serogroup Australis and *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Copenhageni leptospirosis in the dog, demonstrated by challenge. Prevention of mortality, clinical signs, renal infection, bacterial excretion, renal carriage and renal lesions caused by *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Copenhageni was demonstrated by challenge two weeks after vaccination. However the duration of immunity against this serovar was not established.

## **5. PHARMACEUTICAL PARTICULARS**

### **5.1 Major incompatibilities**

Do not mix with any other veterinary medicinal product except those mentioned in section 3.8 above.

### **5.2 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 2 years.

Shelf life after first opening the immediate packaging: use immediately.

### **5.3 Special precautions for storage**

Store and transport refrigerated (2 °C - 8 °C).

Do not freeze.

Protect from light.

#### **5.4 Nature and composition of immediate packaging**

Type I glass vials with chlorobutyl rubber stoppers, sealed with aluminium caps.

Plastic box of 10 vials (glass) of suspension (1 ml).

Plastic box of 50 vials (glass) of suspension (1 ml).

Not all pack sizes may be marketed.

#### **5.5 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

Medicines should not be disposed of via wastewater or household waste.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any national collection systems applicable to the veterinary medicinal product concerned.

### **6. NAME OF THE MARKETING AUTHORISATION HOLDER**

Boehringer Ingelheim Vetmedica GmbH

### **7. MARKETING AUTHORISATION NUMBER(S)**

EU/2/23/293/001

EU/2/23/293/002

### **8. DATE OF FIRST AUTHORISATION**

31 March 2023

### **9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS**

### **10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product subject to prescription.

Detailed information on this veterinary medicinal product is available in the Union Product Database (<https://medicines.health.europa.eu/veterinary>).

**ANNEX II**

**OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

None

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**



## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

Plastic box of 10 glass vials containing 1 ml of suspension  
Plastic box of 50 glass vials containing 1 ml of suspension

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Eurican L4 suspension for injection

**2. STATEMENT OF ACTIVE SUBSTANCES**

Per dose (1 ml):

Inactivated *Leptospira* strains\*..... activity acc. Ph.Eur.447\*\*

\**Leptospira interrogans* serogroup and serovar Canicola, Icterohaemorrhagiae, Grippotyphosa, serogroup Australis serovar Bratislava

\*\*≥ 80 % of protection in hamsters

**3. PACKAGE SIZE**

10 x 1 dose: 10 x 1 ml

50 x 1 dose: 50 x 1 ml

**4. TARGET SPECIES**

Dogs

**5. INDICATIONS**

**6. ROUTES OF ADMINISTRATION**

Subcutaneous use.

**7. WITHDRAWAL PERIODS**

**8. EXPIRY DATE**

Exp. {dd/mm/yyyy}

Once opened, use immediately.

**9. SPECIAL STORAGE PRECAUTIONS**

Store and transport refrigerated.

Do not freeze.

Protect from light.

**10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”**

Read package leaflet before use.

**11. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

**12. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

**13. NAME OF THE MARKETING AUTHORISATION HOLDER**

Boehringer Ingelheim Vetmedica GmbH

**14. MARKETING AUTHORISATION NUMBER(S)**

EU/2/23/293/001 10 x 1 dose  
EU/2/23/293/002 50 x 1 dose

**15. BATCH NUMBER**

Lot {number}

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

Glass vial containing 1ml of suspension

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Eurican L4



**2. QUANTITATIVE PARTICULARS OF THE ACTIVE SUBSTANCES**

*Leptospira interrogans*

1 ml

**3. BATCH NUMBER**

Lot {number}

**4. EXPIRY DATE**

Exp. {dd/mm/yyyy}

**B. PACKAGE LEAFLET**

## PACKAGE LEAFLET:

### 1. Name of the veterinary medicinal product

Eurican L4 suspension for injection

### 2. Composition

One dose (1 ml) of suspension contains:

#### Active substances:

Inactivated *Leptospira interrogans* serogroup and serovar Canicola strain 16070 ..... Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup and serovar Icterohaemorrhagiae strain 16069 ..... Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup and serovar Grippotyphosa strain Grippo Mal 1540.....Activity acc. to Ph. Eur.447\*  
Inactivated *Leptospira interrogans* serogroup Australis and serovar Bratislava strain 16785.....Activity acc. to Ph. Eur.447\*

\*  $\geq 80$  % protection in hamsters

Opalescent and homogenous suspension.

### 3. Target species

Dogs

### 4. Indications for use

Active immunisation of dogs from 7 weeks of age to prevent or reduce mortality, clinical signs, infection, bacterial excretion, renal carriage and renal lesions caused by:

- *Leptospira interrogans* serogroup Canicola serovar Canicola,
- *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Icterohaemorrhagiae,
- *Leptospira kirschneri* serogroup Grippotyphosa serovar Grippotyphosa, and
- *Leptospira interrogans* serogroup Australis serovar Bratislava.

Serogroup / Serovar	Indication					
	Mortality	Clinical signs	Infection	Bacterial excretion	Renal carriage	Renal lesions
Canicola / Canicola	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Icterohaemorrhagiae / Icterohaemorrhagiae	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Grippotyphosa / Grippotyphosa	Prevention*	Prevention*	Reduction	Reduction	Reduction	Reduction
Australis / Bratislava	Prevention	Prevention	Prevention	Prevention	Prevention	Prevention

\* For *Leptospira interrogans* serovar Canicola, *Leptospira interrogans* serovar Icterohaemorrhagiae, and *Leptospira kirschneri* serovar Grippotyphosa, the prevention of mortality and clinical signs was not demonstrated at the duration of immunity timepoint.

Onset of immunity: 2 weeks after the second injection of the primary vaccination course for all strains.

Duration of immunity: at least one year after the second injection of the primary vaccination course for all strains.

## **5. Contraindications**

None.

## **6. Special warnings**

Vaccinate healthy animals only.

### Special precautions for safe use in the target species:

Apply usual aseptic procedures.

### Pregnancy:

Safety data in pregnant bitches vaccinated with Boehringer Ingelheim's trivalent leptospirosis vaccine containing *Leptospira Canicola*, *Leptospira Icterohaemorrhagiae* and *Leptospira Grippotyphosa* are available and demonstrate that it can be used during pregnancy. For Eurican L4, which contains an additional inactivated strain, *Leptospira Australis*, no safety data in pregnant bitches are available.

### Interaction with other medicinal products and other forms of interaction:

Safety and efficacy data are available which demonstrate that this vaccine can be mixed with Eurican DAP or Eurican DAPPi / Eurican DHPPi.

Safety and efficacy data are available which demonstrate that this vaccine can be administered on the same day as, but not mixed with, Rabisin in dogs from 12 weeks of age.

No information is available on the safety and efficacy of this vaccine when used with any other veterinary medicinal product except the products mentioned above. A decision to use this vaccine before or after any other veterinary medicinal product therefore needs to be made on a case by case basis.

### Overdose:

No adverse events other than those mentioned in section "adverse events" were observed after administration of a 2-fold overdose. Swelling and pain at the injection site may persist longer after an overdose. These symptoms disappear within at most 22 days and 10 days respectively.

### Major incompatibilities:

Do not mix with any other veterinary medicinal product except Eurican DAP or Eurican DAPPi / Eurican DHPPi.

## **7. Adverse events**

Dogs:

- Very Common (>1 animal / 10 animals treated): Injection site swelling (less than 6 cm) disappearing within 8 days, pruritus disappearing within 2 days, injection site pain and warmth, disappearing within 4 days.
- Common (1 to 10 animals / 100 animals treated): lethargy disappearing within 3 days, anorexia and emesis disappearing within 2 days.
- Uncommon (1 to 10 animals / 1,000 animals treated): Diarrhoea, muscle tremor, vocalisation, hyperthermia (maximum 39.8°C lasting at most 1 day), tachycardia and tachypnoea.

- Rare (1 to 10 animals / 10,000 animals treated): Hypersensitivity reactions (facial oedema, urticaria) including anaphylactic shock, which may be life-threatening. If such a reaction occurs, appropriate treatment should be administered without delay.

Reporting adverse events is important. It allows continuous safety monitoring of a product. If you notice any side effects, even those not already listed in this package leaflet, or you think that the medicine has not worked, please contact, in the first instance, your veterinarian. You can also report any adverse events to the marketing authorisation holder or the local representatives of the marketing authorisation holder using the contact details at the end of this leaflet, or via your national reporting system: {national system details}

## **8. Dosage for each species, routes and method of administration**

When Eurican L4 is used alone, inject a 1 ml dose subcutaneously according to the following schedule:

Primary vaccination: Two injections separated by an interval of 4 weeks from 7 weeks of age.

Revaccination: Administer one dose 12 months after completion of the primary vaccination course. Dogs should be revaccinated with a single booster dose on an annual basis.

## **9. Advice on correct administration**

When Eurican L4 is used as a diluent of Eurican DAP or Eurican DAPPi / Eurican DHPi, aseptically reconstitute the contents of the lyophilisate with the Eurican L4 vaccine suspension. Mix well before use. The entire contents of the reconstituted vial should be administered as a single dose.

## **10. Withdrawal periods**

Not applicable

## **11. Special storage precautions**

Keep out of the sight and reach of children.

Store and transport refrigerated (2 °C - 8 °C).

Do not freeze.

Protect from light.

Do not use this veterinary medicinal product after the expiry date which is stated on the label after Exp.

Shelf-life after first opening the immediate packaging: use immediately.

## **12. Special precautions for disposal**

Medicines should not be disposed of via wastewater or household waste.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any applicable national collection systems. These measures should help to protect the environment.

Ask your veterinary surgeon or pharmacist how to dispose of medicines no longer required.



### **13. Classification of veterinary medicinal products**

Veterinary medicinal product subject to prescription.

Detailed information on this veterinary medicinal product is available in the Union Product Database (<https://medicines.health.europa.eu/veterinary>).

### **14. Marketing authorisation numbers and pack sizes**

EU/2/23/293/001

EU/2/23/293/002

Plastic box of 10 vials (glass) of suspension (1 ml).

Plastic box of 50 vials (glass) of suspension (1 ml).

Not all pack sizes may be marketed.

### **15. Date on which the package leaflet was last revised**

### **16. Contact details**

Marketing authorisation holder:

Boehringer Ingelheim Vetmedica GmbH  
55216 Ingelheim/Rhein  
Germany

Manufacturer responsible for batch release:

Boehringer Ingelheim Animal Health France SCS  
Laboratoire Porte des Alpes  
Rue de l'Aviation  
69800 Saint-Priest  
France

Local representatives and contact details to report suspected adverse events:

**België/Belgique/Belgien**

Boehringer Ingelheim Animal  
Health Belgium SA  
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**Slovenská republika**

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**United Kingdom (Northern Ireland)**

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Tel: +353 1 291 3985

**17. Other information**

**ATCvet code:** QI07AB01.

Vaccine against *Leptospira* (inactivated) in dogs.

After administration, the vaccine induces an immune response against *Leptospira interrogans* serogroup Canicola, *Leptospira interrogans* serogroup Icterohaemorrhagiae, *Leptospira kirschneri* serogroup Grippotyphosa, *Leptospira interrogans* serogroup Australis and *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Copenhageni leptospirosis in the dog, demonstrated by challenge.

Prevention of mortality, clinical signs, renal infection, bacterial excretion, renal carriage and renal lesions caused by *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Copenhageni was demonstrated by challenge two weeks after vaccination. However the duration of immunity against this serovar was not established.