

## Summary of Product Characteristics

### 1 NAME OF THE VETERINARY MEDICINAL PRODUCT

NUFLOR Swine 300 mg/ml Solution for injection.

### 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

#### Active substance:

Each ml contains  
Florfenicol 300.00 mg

#### Excipient(s):

For full list of excipients, see section 6.1.

### 3 PHARMACEUTICAL FORM

Solution for injection.

Clear, light yellow to straw-coloured, somewhat viscous solution, free from foreign matter.

### 4 CLINICAL PARTICULARS

#### 4.1 Target Species

Pigs.

#### 4.2 Indications for use, specifying the target species

Treatment of acute outbreaks of swine respiratory disease caused by strains of *Actinobacillus pleuropneumoniae* and *Pasteurella multocida* susceptible to florfenicol.

#### 4.3 Contraindications

Do not administer to boars intended for breeding.

Do not administer in cases of previous allergic reactions to florfenicol.

See section 4.7

#### 4.4 Special warnings for each target species

None.

## 4.5 Special precautions for use

### Special precautions for use in animals

Do not use in piglets of less than 2 kg.

The product should be used in conjunction with susceptibility testing and take into account official and local antimicrobial policies.

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

Do not use the product in known cases of sensitivity to propylene glycol and polyethylene glycols.

Care should be taken to avoid accidental self-injection.

## 4.6 Adverse reactions (frequency and seriousness)

Commonly observed adverse effects are transient diarrhoea and/or peri-anal and rectal erythema/oedema which may affect 50% of the animals.

These effects can be observed for one week.

Under field conditions approximately 30% of treated pigs presented with pyrexia (40°C) associated with either moderate depression or moderate dyspnea a week or more after administration of the second dose.

Transient swelling lasting up to 5 days may be observed at the site of injection. Inflammatory lesions at the injection site may be seen up to 28 days.

## 4.7 Use during pregnancy, lactation or lay

Studies in laboratory animals have not revealed any evidence of embryo- or foeto-toxic potential for florfenicol.

However, the safety of the product in sows during pregnancy and lactation has not been demonstrated.

Do not use the product during pregnancy and lactation.

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

None known.

## 4.9 Amounts to be administered and administration route

15 mg/kg bodyweight (1 ml per 20 kg) by intramuscular injection into the neck muscle twice at 48 hour intervals using a 16-gauge needle.

The volume administered per injection site should not exceed 3 ml.

It is recommended to treat animals in the early stages of disease and to evaluate the response to treatment within 48 hours after the second injection. If clinical signs of respiratory disease persist 48 hours after the last injection, treatment should be changed using another formulation or another antibiotic and continued until clinical signs have resolved.

Wipe the stopper before removing each dose. Use a dry, sterile syringe and needle.

Do not broach the vial more than 25 times.

To ensure a correct dosage body weight should be determined as accurately as possible to avoid underdosing.

#### 4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary

In swine after administration of 3 times the recommended dose or more a reduction in feeding, hydration and weight gain has been observed.

After administration of 5 times the recommended dose or more vomiting has also been noted.

#### 4.11 Withdrawal Period(s)

Meat and offal\*: 18 days

\* The withdrawal period is calculated from the last administration of the drug. It should be noted that whatever the withdrawal period no food of animal origin can be given to humans during the period of treatment.

### 5 PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES

Pharmacotherapeutic group: Antibacterial for systemic use (Amphenicols)

ATC Vet Code: QJ01BA90

#### 5.1 Pharmacodynamic properties

Florfenicol is a broad-spectrum synthetic antibiotic active against most Gram-positive and Gram-negative bacteria isolated from domestic animals. Florfenicol acts by inhibition of protein synthesis at the ribosomal level and is bacteriostatic. However, bactericidal activity has been demonstrated *in vitro* against *Actinobacillus pleuropneumoniae* and *Pasteurella multocida*.

*In vitro* testing has shown that florfenicol is active against the bacterial pathogens most commonly isolated in respiratory diseases in pigs, including *Actinobacillus pleuropneumoniae* and *Pasteurella multocida*.

#### 5.2 Pharmacokinetic properties

In pigs intravenously administered florfenicol had a mean plasma clearance rate of 5.2 ml/min/kg and a mean volume of distribution at equilibrium of 948 ml/kg. The mean terminal half-life is 2.2 hours.

After initial intramuscular administration of florfenicol, maximum serum concentrations of between 3.8 and 13.6 µg/ml are reached after 1.4 hours and the concentrations deplete with a terminal mean half-life of 3.6 hours. After a second intramuscular administration, maximum serum concentrations of between 3.7 and 3.8 µg/ml are reached after 1.8 hours. Serum concentrations drop below 1 µg/ml, the MIC<sub>90</sub> for the target porcine pathogens, 12 to 24 hours following IM administration. Florfenicol concentrations achieved in lung tissue reflect plasma concentrations, with a lung:plasma concentration ratio of approximately 1.

After administration to pigs by the intramuscular route, florfenicol is rapidly excreted, primarily in urine. The florfenicol is extensively metabolised.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

N-Methyl-2-Pyrrolidone  
Propylene Glycol  
Macrogol 300 (polyethylene glycol 300)

### **6.2 Incompatibilities**

Do not mix the product with other medicinal products.

### **6.3 Shelf-life**

Shelf life of the veterinary medicinal product as packaged for sale: 2 years  
Shelf life after first broaching the immediate packaging: 28 days

### **6.4 Special precautions for storage**

Do not store above 25°C.  
Do not refrigerate.  
Protect from frost.  
Discard unused material.

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

#### **Pack Sizes**

20, 50, 100, 250 and 500 ml colourless Type I glass vials closed with Grey bromobutyl rubber stoppers with aluminium seals.

Not all pack sizes may be marketed.

### **6.6 Special precautions for the disposal of unused veterinary medicinal products or waste materials**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

## **7 MARKETING AUTHORISATION HOLDER**

Intervet Ireland Ltd.  
Magna Drive  
Magna Business Park  
Citywest Road  
Dublin 24

**8 MARKETING AUTHORISATION NUMBER(S)**

VPA 10996/241/001

**9 DATE OF THE FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

30<sup>th</sup> May 2010

**10 DATE OF REVISION OF THE TEXT**

February 2013