

## **Sumox 50% Water Soluble Powder**

**Composition:** Amoxicillin (as Amoxicillin Trihydrate) 50%w/w Water Soluble Powder. Each 100g of Sumox 50% Water Soluble Powder contains 57.5g Amoxicillin (equivalent to 50g Amoxicillin)

**Product Description:** It is an almost white or light white crystalline powder.

### **Pharmacodynamics**

Amoxicillin is bacterial semisynthetic penicillin with a broad spectrum of activity against Gram positive and Gram negative bacteria. IT owes its activity to the inhibition of the development of the peptidoglycan network structure in the bacterial cell wall.

### **Pharmacokinetics**

Amoxicillin is well absorbed following oral administration and it is stable in the presence of gastric acids. Excretion of amoxicillin is mainly in the unchanged form via the kidneys to give high concentration in renal tissue and urine. Amoxicillin is well distributed in body fluids.

Studies in birds have indicated that amoxicillin is distributed and eliminated more rapidly than in mammals. Biotransformation appeared a more important route of elimination in birds than in mammals.

### **Indications:**

**Chickens:** Treatment of infections in chickens caused by bacteria susceptible to amoxicillin.

Not effective against beta-lactamase producing organisms.

Use of the product should be based on susceptibility testing and it should take into account official and local antimicrobial policies.

**Pigs:** For the treatment of salmonellosis and pasteurellosis.

### **Recommended Dose:**

#### **Chickens**

The product is administered in the drinking water. Prepare the solution with fresh tap water immediately before use. Once opened, use the contents of one sachet immediately. Any unused medicated water should be discarded after 12 hours.

#### **Chickens:**

The recommended dosage is 15 mg amoxicillin trihydrate per kg bodyweight.

The total period of treatment should be for 3 days or in severe cases for 5 days.

#### **Pigs**

For the medication of Pigs, Sumox 50 may be administered via the drinking water or administered by addition to liquid feeds produced with commercial feed. It may not be used in dry feeds.

## **1. Administration via the drinking water**

- a. Administer in the drinking water to give 20mg amoxicillin trihydrate/kg bodyweight daily. The dose should be divided and administered at approximately 12 hourly intervals for up to 5 days. Dissolve the contents of one sachet (100g of the product) in the requisite quantity of water immediately before use.
- b. For administration via the drinking water, the solution should be prepared with fresh potable water.
  - i. Any medicated water which is not consumed within 12 hours should be discarded.
  - ii. In order to ensure consumption of the medicated water, animals should not have access to other water supplies whilst on treatment.

## **2. Administration in liquid feed**

- a. Administer in the liquid feed to give 20mg amoxicillin trihydrate/kg bodyweight daily for up to 5 days. Medicated feed should be freshly prepared on at least 3 occasions per day over the treatment period. The daily dose should be calculated based on the number of animals and average weight and then divided by the number of feed lots prepared in the day.
- b. Medicated liquid feed should be prepared with fresh potable water.
- c. Dissolve the required amount of Sumox 50 in water at a rate of 25g/L before addition to the feed. This may be done by dissolving the contents of one sachet (100g of the product) in approximately 4L of water immediately before use.
- d. After adding the product to some or all of the water needed to make the liquid feed, ensure the product is fully dissolved. Dissolution of the product can take up to 10 minutes. This medicated water can then be mixed with the dry complete meal and if appropriate, the remaining water. The system used should ensure that the medicated water is evenly distributed into the feed. Once prepared the final medicated liquid feed should be feed to the pigs immediately.
- e. The medicated liquid feed should not be fermented and should not be stored.
- f. Stability of amoxicillin in all commercial feeds has not been established. In order to ensure that any loss of amoxicillin activity is minimized, the quantity of medicated liquid feed prepared should not exceed the amount of feed which will be consumed within 4 hours
  - i. Any medicated liquid feed which is not consumed within 4 hours should be discarded
  - ii. Although restricted access to other water supplies would help ensure medicated liquid feed is consumed, separate clean potable water should remain available at all times for welfare reasons

### **Contraindication**

Sumox 50 should not be administered to rabbits, hamsters, gerbils and guinea pigs, or to birds producing eggs intended for human consumption.

## **Warning and Precautions**

### **Special precautions for use in animals**

**Pigs:** The uptake of medication by animals can be altered as a consequence of illness. In case of insufficient uptake of feed or water, animals should be treated parenterally.

Use of the product should be based on 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**

Penicillins and cephalosporins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Hypersensitivity to penicillins may lead to cross reactions to cephalosporins and vice versa. Allergic reactions to these substances may occasionally be serious.

- 1) Do not handle this product if you know you are sensitised or if you have been advised not to work with such preparations.
- 2) Handle this product with great care to avoid exposure, taking all recommended precautions.
- 3) If you develop symptoms following exposure such as a skin rash, you should seek medical advice and show the doctor this warning. Swelling of the face, lips or eyes or difficulty with breathing are more serious symptoms and require urgent medical attention.

## **Interaction with other Medicaments**

None known

## **Pregnancy and Lactation**

Laboratory studies in rats have not produced any evidence of a teratogenic effect due to the administration of amoxicillin.

Use according to the benefit/risk assessment of the responsible veterinarian.

## **Side Effects**

None known

## **Symptoms Treatment of Overdose**

No problems with over dosage have been reported. Treatment should be symptomatic and no specific antidote is available.

**Withdrawal Periods**

Chickens (Meat & Offal)	1 day
Pigs (Meat & Offal)	2 days

Not authorised for use in laying birds producing eggs for human consumption.

**Storage Condition**

Store below 30°C (room temperature)

Store in a cool dry place

**Dosage Form and Packaging Available:** 100g and 500g Powder for Oral Solution

**Name and address of Marketing Authorisation Holder**

LAI NGIT SEN  
No.30, 3<sup>rd</sup> Mile Bazaar,  
93200 Kuching, Sarawak.

**Name and address of Manufacturer**

NAM PHARMA SDN BHD  
5, Lebuhr Perusahaan Klebang 11,  
Taman Perindustrian Antarabangsa IGB  
31200 Chemor, Perak, Malaysia

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