

**BROXIN 2%**  
**WATER SOLUBLE POWDER**  
(FOR VETERINARY USE ONLY)

**COMPOSITION**

Bromhexine Hydrochloride ..... 20 mg/g

**PRODUCT DESCRIPTION**

This product is white powder.

**PHARMACODYNAMICS**

This product is a mucolytic with two main pharmacological actions. Firstly it stimulates an increase in the secretion of fluid by the mucus glands of the respiratory tract. Secondly it breaks down the network of acid glycoprotein fibres found in mucoid sputum, which are mainly responsible for the characteristic viscosity. This product has been shown to increase mucociliary clearance in calves suffering from respiratory disease.

**PHARMACOKINETICS**

In pigs, bromhexine is rapidly absorbed after oral administration with peak plasma concentrations achieved within one to three hours. The concentration plateau is reached 12 hours after the second or third administration. In cattle, plasma concentrations increase gradually over several hours after administration. The concentration plateau is not reached during the five-day treatment period. Distribution Due to the lipophilic nature of bromhexine, the parent compound has a high affinity for lipid tissues and slow depletion profile from these tissues. Metabolism The bromhexine is extensively metabolized in more polar compounds. Elimination The half-life apparent elimination of the total radioactivity in plasma after

the last dose is 20 to 30 hours in pigs and 40 to 50 hours in cattle.

**INDICATIONS**

As an aid to the treatment of respiratory disease in cattle and pigs where mucus is a complicating factor.

**CONTRA-INDICATIONS**

None known

**ADMINISTRATION & DOSAGE**

For oral administration in the feed or drinking water. Add to feed or drinking water immediately before administration.

Cattle: 2.5 g BROXIN 2% for 100 kg body weight once daily. This dosage rate is equivalent to 0.5 mg bromhexine HCl per kg bodyweight.

Pigs: 1 – 2.5 g BROXIN 2% for 100 kg body weight once daily. This dosage rate is equivalent to 0.2 - 0.5 mg bromhexine HCl per kg bodyweight.

Duration of treatment is 5 days.

**WITHDRAWAL PERIODS**

Meat and offal: Cattle: 2 days ; Pigs: zero day.  
Not permitted for use in cows producing milk for human consumption.

**WARNING AND PRECAUTIONS**

Special warnings:

- For Veterinary Use Only
- Keep out of reach of children.
- Jauhi ubat dari kanak-kanak.

Special precautions for use:

(i) Special precautions for use in animals:  
None known.

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

Avoid contact with skin and eyes. In case of accidental eye contact, flush the affected eye with copious amounts of clean running water. Wash hands and exposed skin after administering the product.

**INTERACTION WITH OTHER MEDICAMENTS**

May be used in conjunction with antibiotics and/or sulphonamides, bronchodilators etc.

**PREGNANCY AND LACTATION**

Not applicable.

**SIDE EFFECT**

None known

**OVERDOSE AND TREATMENT**

No treatment is specified.

**SHELF LIFE:** 36 months

**SHELF LIFE after first opening:** 24 hours

**SHELF LIFE after dilution:** 24 hours

**STORAGE**

Store in a dry place, below 25°C.

**PACKAGING**

The powder filled 500 g in aluminum sachets, by automatic filling machine and sealing, and packed in carton box.

**DATE OF REVISION:** 31 May 2018

**Product Registration Holder and Manufactured By:**



**SHENNONG ANIMAL HEALTH (M) SDN BHD**  
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