

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Vetrimoxin L.A. 150 mg/ml suspension for injection for cattle and pigs

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml contains:

Active substance:
Amoxicillin (as trihydrate) 150 mg

Excipients:

Qualitative composition of excipients and other constituents
Anhydrous colloidal silica
Sorbitan oleate
Propylene glycol dicaprylocaprate

Cream-beige suspension.

3. CLINICAL INFORMATION

3.1 Target species

Cattle and pigs

3.2 Indications for use for each target species

In cattle:

Treatment of respiratory infections caused by *Mannheimia haemolytica* and *Pasteurella multocida* susceptible to amoxicillin.

In pigs:

Treatment of respiratory infections caused by *Pasteurella multocida* susceptible to amoxicillin.

3.3 Contraindications

Do not use in cases of known hypersensitivity to penicillins, cephalosporins or to any of the excipients.

Do not use in cases of severe renal dysfunction with anuria and oliguria. Do not use in case of infection with beta-lactamase-producing bacteria.

Do not use in rabbits, hares, hamsters, guinea pigs or other small herbivores.

Do not administer to Equidae, because amoxicillin – like all aminopenicillins – may adversely affect the bacterial flora of the caecum.

3.4 Special warnings

None

3.5 Special precautions for use

Special precautions for safe use in the target species:

The choice of using amoxicillin should be based on bacterial susceptibility testing and take into account official, national and regional antimicrobial policies.

Use of the veterinary medicinal product deviating from the instructions given in the SPC may increase the prevalence of bacteria resistant to amoxicillin and may decrease the effectiveness of treatment with amoxicillin due to the potential for cross-resistance.

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

Penicillin and cephalosporin may cause an allergic reaction following accidental injection, inhalation or absorption via the skin, which may be life threatening. Hypersensitivity to penicillin may lead to cross sensitivity to cephalosporins and vice versa. Avoid direct contact of the veterinary medicinal veterinary medicinal product with the skin or the mucosae.

Handle the product with great care to avoid exposure.

Wear gloves and wash hands after use of the veterinary medicinal product. In case of contact with the skin or eyes, wash immediately with water.

Do not smoke, eat or drink during use of the veterinary medicinal product.

If you develop symptoms following exposure, such as a skin rash, seek medical advice immediately and show the package leaflet or the label to the physician. Swelling of the face, lips and eyes or difficulty with breathing are more serious symptoms and require urgent medical attention.

Special precautions for the protection of the environment:

Not applicable.

3.6 Adverse events

Cattle, pigs:

Rare (1 to 10 animals / 10,000 animals treated):	Injection site irritation ¹
Undetermined frequency (cannot be estimated from the available data):	Allergic reaction ² (e.g. urticaria, anaphylactic shock)

¹ Of low intensity and recedes spontaneously and quickly, frequency may be decreased by reducing the volume of injection per injection site (see section 3.9).

²Varying in severity. In case of allergic reaction treatment should be discontinued and a symptomatic treatment should be initiated.

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 authorization holder or the national competent authority via the national reporting system. See the package leaflet for respective contact details.

3.7 Use during pregnancy, lactation or lay

Pregnancy and lactation:

Laboratory studies in rats and rabbits have not produced any evidence of teratogenic, foetotoxic or maternotoxic effects of amoxicillin. However, the tolerance of the veterinary medicinal product in cattle and pigs during pregnancy and lactation has not been investigated. In these cases, use only according to the benefit/risk assessment by the responsible veterinarian.

3.8 Interaction with other medicinal products and other forms of interaction

Do not use with antibiotics, which inhibit bacterial protein synthesis, as these can antagonise the bactericidal action of penicillins.

3.9 Administration routes and dosage

Intramuscular use.
Shake well before use.

15 mg amoxicillin per kg bodyweight; corresponding to 1 ml of the veterinary medicinal product per 10 kg.

Administration should be repeated after 48 hours.

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

In cattle, do not administer more than 20 ml of the veterinary medicinal product per injection site.

In pigs, do not administer more than 6 ml of the veterinary medicinal product per injection site.

A separate injection site should be used for each administration.

As with other injectable preparations normal aseptic precautions should be observed. If no distinct clinical response is seen after the second treatment, a check of the diagnosis and eventually a change of treatment are required.

Do not broach the vial more than 10 times: if necessary, use automatic syringes.

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

Amoxicillin has a wide safety margin.

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 periods

Cattle:

Meat and offal: 18 days

Milk: 72 hours

Pigs:

Meat and offal: 16 days

4. PHARMACOLOGICAL INFORMATION

4.1 ATCvet code:

QJ01CA04

4.2 Pharmacodynamics

Amoxicillin is a broad-spectrum antibiotic of the amino-penicillin family with close structural relationship to ampicillin.

Amoxicillin is a bactericide and is active against Gram-positive and Gram-negative bacteria. It inhibits the synthesis and reparation of the bacterial mucopeptide cell wall.

Amoxicillin is a semisynthetic penicillin and susceptible to the action of bacterial beta- lactamases. Amoxicillin is a time-dependent antibiotic.

Amoxicillin is active against the following microorganisms which are involved in respiratory diseases in cattle: *Mannheimia haemolytica* and *Pasteurella multocida*. Amoxicillin is also active against *Pasteurella multocida* that is involved in respiratory diseases in pig.

The following Minimum Inhibitory Concentrations (MIC) have been determined for amoxicillin in European isolates (France, United Kingdom, Denmark, Germany, Italy, Czech Republic, and Spain) collected from diseased animals between 2009 to 2012:

Bacteria species	Origin	Nb of strains	MIC of amoxicillin (µg/mL)		
			Range	MIC ₅₀	MIC ₉₀
<i>Pasteurella multocida</i>	Cattle	76	0.0312 – 4	0.2	0.3
	Pigs	89	0.125 – 2	0.2	0.3
<i>Mannheimia haemolytica</i>	Cattle	59	0.125 – 0.5	0.15	0.2

The following amoxicillin breakpoints are recommended by the Comité de l'Antibiogramme of the Société Française de Microbiologie (SFM) : □ 4 µg/mL (Susceptible) and >16 µg/mL (Resistant).

Mechanism of action

The antimicrobial mechanism of action consists of the inhibition of the biochemical process of bacterial wall synthesis, through a selective and irreversible blockade of several enzymes, in particular transpeptidases, endopeptidases and carboxypeptidases. In susceptible bacteria, impairment of cell wall synthesis particularly during multiplication leads to lysis of the bacteria.

Bacteria which generally present resistance to amoxicillin are:

- *Staphylococcus* species producing penicillinase,
- *Enterobacteria* such as *Klebsiella* spp, *Enterobacter* spp, *Proteus* spp and *Pseudomonas aeruginosa*.

Bacterial resistance towards amoxicillin is primarily mediated through β -lactamases which inactivate the antimicrobial by hydrolysis of the β -lactam ring. Bacterial β -lactamases can be codified in plasmids or in constituents of the bacterial chromosome.

These beta-lactamases are extracellular in Gram-positive bacteria (*Staphylococcus aureus*) whereas they are located in the periplasmic space in Gram-negative bacteria.

Gram-positive bacteria can produce beta-lactamases in large quantities. These enzymes are codified in plasmids, which can be transferred to other bacteria.

Gram-negative bacteria produce different types of beta-lactamases, which remain in the periplasmic space and which are codified in the chromosome or in the plasmid.

Complete cross resistance exists between amoxicillin and other penicillins, in particular other aminopenicillins.

4.3 Pharmacokinetics

In cattle C_{max} (3.45 μ g/ml) is reached 2.45 hours after intramuscular administration. In pigs C_{max} (3.54 μ g/ml) is reached 2 hours after intramuscular administration.

Amoxicillin is mainly distributed to the extra-cellular compartment. Its distribution into tissues is facilitated by its low degree of plasma protein binding (17%).

Concentrations in pulmonary, pleural and bronchial tissues are similar to plasma concentrations. Amoxicillin diffuses into pleural and synovial fluid and into lymphatic tissue.

Amoxicillin is biotransformed in the liver by hydrolysis of the β -lactam ring leading to inactive penicilloic acid (20%). Amoxicillin is mainly excreted in active form via the kidneys, and secondarily by the biliary route and through milk.

5. PHARMACEUTICAL PARTICULARS

5.1 Major incompatibilities

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products

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: 28 days

5.3 Special precautions for storage

Do not refrigerate.

Protect from frost.

Keep the vial in the outer carton in order to protect from light.

5.4 Nature and composition of immediate packaging

Multilayer plastic vials (polypropylene / ethylene vinyl alcohol / polypropylene) with chlorobutyl rubber stoppers (type II) and aluminium and plastic flip capsule.

Pack sizes:

- 100 ml
- 12 x 100 ml
- 250 ml
- 12 x 250 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

Ceva Santé Animale

7. MARKETING AUTHORISATION NUMBERS

Vm 14966/5065 (GB)

Vm 14966/3064 (NI)

8. DATE OF FIRST AUTHORISATION

19 December 2012

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

March 2026

10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCT

Veterinary medicinal product subject to prescription.

Find more product information by searching for the 'Product Information Database' on www.gov.uk.

Gavin Hall

Approved: 07 April 2026