

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Synulox palatable tablets 40 mg/10 mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains:

Active substance:

Amoxicillin 40 mg (equivalent to 45.91 mg amoxicillin trihydrate)

Clavulanic acid 10 mg (equivalent to 11.91 mg potassium clavulanate)

Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Magnesium stearate	
Sodium starch glycolate	
Microcrystalline cellulose	
Colloidal silica anhydrous	
Roller-dried yeast	
Erythrosine lake (E127)	3.5 mg

Speckled pink flat circular tablets with bevelled edges, a scored line on one side and engraved SYNULOX on the other side.

The tablet can be divided into two equal parts.

3. CLINICAL INFORMATION

3.1 Target species

Dogs and cats.

3.2 Indications for use for each target species

Dogs:

For the treatment of

- Skin infections (including deep and superficial pyoderma).
- Soft tissue infections (including anal sacculitis and abscesses).
- Urinary tract infections.
- Respiratory infections.
- Intestinal infections.
- Periodontal infections in addition to mechanical or surgical periodontal therapy.

Cats:

For the treatment of

- Skin infections (including superficial pyoderma).
- Soft tissue infections (including abscesses).
- Urinary tract infections.
- Respiratory infections.
- Intestinal infections.
- Periodontal infections in addition to mechanical or surgical periodontal therapy.

3.3 Contraindications

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

Do not use in cases of hypersensitivity to the active substances, other substances of the beta-lactam group or to any of the excipients.

Do not administer to horses or ruminating animals.

Do not use in animals with severe renal impairment with anuria or oliguria.

3.4 Special warnings

Cross-resistance has been shown between amoxicillin/clavulanic acid and other antibiotics belonging to the beta-lactam group. Use of the veterinary medicinal product should be carefully considered when susceptibility testing has shown resistance to other antimicrobials in the beta-lactam group because its effectiveness may be reduced.

The veterinary medicinal product has no effect against infections caused by *Pseudomonas* spp. due to its inherent resistance.

3.5 Special precautions for use

Special precautions for safe use in the target species:

Use of the product should be based on identification and susceptibility testing of the target pathogen(s). If this is not possible, therapy should be based on epidemiological information and knowledge of susceptibility of the target pathogens at local/regional level.

Use of the product should be in accordance with official, national and regional antimicrobial policies.

An antibiotic with a lower risk of antimicrobial resistance selection (lower AMEG category) should be used for first line treatment where susceptibility testing suggests the likely efficacy of this approach.

Narrow spectrum antibiotic therapy with a lower risk of antimicrobial resistance selection should be used for first line treatment where susceptibility testing suggests the likely efficacy of this approach.

Pharmacokinetic of the active substances in the target tissue might be considered as well.

The routine use of systemic antibiotics for intestinal infections is not recommended.

Oral treatment with antibiotics can result in disturbance of gastrointestinal flora, especially in case of long-term treatment.

In case of renal or hepatic insufficiency, the use of the veterinary medicinal product should be subject to a benefit-risk assessment by the responsible veterinarian.

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 can lead to cross-reactions with cephalosporins and vice versa. Allergic reactions caused by these substances may occasionally be serious.

People with known hypersensitivity to the active substance should avoid contact with the veterinary medicinal product. Wear gloves when handling this product to avoid skin contact.

If you develop symptoms such as a skin rash and persistent eye irritation after exposure to the veterinary medicinal product, seek medical advice immediately and show the package leaflet or label to the physician. Swelling of the face, lips, or eyes, or difficulty breathing are more serious symptoms that require urgent medical attention.

Wash hands after use.

To prevent children from accessing the veterinary medicinal product, only the required number of tablets should be removed from the blister pack and only when required. Store any unused portion of the tablet in the opened blister pack and return it into the carton immediately after use. The carton should be stored out of the sight and reach of children. In case of accidental ingestion, seek medical advice immediately and show the package leaflet or the label to the physician.

Special precautions for the protection of the environment:

Not applicable.

3.6 Adverse events

Dogs and cats:

Common (1 to 10 animals / 100 animals treated):	gastrointestinal disorder ¹ (e.g. vomiting, diarrhoea)
Uncommon	hypersalivation anorexia ^{1, 2} , lethargy

(1 to 10 animals / 1 000 animals treated):	
Very rare (<1 animal / 10 000 animals treated, including isolated reports):	hypersensitivity reaction ³ (e.g. allergic skin reaction, anaphylaxis)

¹ Depending on the severity of the adverse event treatment should be discontinued and symptomatic treatment initiated based on the benefit-risk assessment by the responsible veterinarian.

² Very rare (<1 animal / 10 000 animals treated, including isolated reports) in cats.

³ May be serious. Immediate discontinuation of the veterinary medicinal product is required. Countermeasures to be taken in case of an allergic reaction:

- anaphylaxis: administer epinephrine (adrenaline) and glucocorticoids.
- allergic skin reactions: administer antihistamines and/or glucocorticoids.

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 the package leaflet for respective contact details.

3.7 Use during pregnancy, lactation or lay

The safety of the veterinary medicinal product has not been established during pregnancy and lactation.

Pregnancy and lactation:

In laboratory studies (rat, mouse), signs of embryotoxicity or teratogenicity could only be detected at high doses.

Use only according to the benefit-risk assessment by the responsible veterinarian.

3.8 Interaction with other medicinal products and other forms of interaction

The bactericidal effect of amoxicillin may be inhibited by the concomitant use of bacteriostatic antimicrobials.

Penicillins may increase the effect of aminoglycosides.

3.9 Administration routes and dosage

Oral use.

Dosage: 10 mg amoxicillin and 2.5 mg clavulanic acid/kg body weight every 12 hours.

In refractory respiratory tract infections, the dose can be doubled to 20 mg amoxicillin and 5 mg clavulanic acid/kg body weight every 12 hours and the treatment can be prolonged for up to 10 days.

Dosing instructions:

Body weight (kg)	Number of tablets every 12 hours (10 mg amoxicillin and 2.5 mg clavulanic acid/kg body weight)
1 – 2	0.5
> 2 – 4	1
> 4 – 6	1.5
> 6 – 8	2
> 8 – 10	2.5

Duration of treatment:

In most of the cases, a treatment duration of 5 to 7 days is sufficient.

For chronic cases, a longer course of therapy may be required.

Based on clinical trials, the following treatment durations are recommended:

Chronic skin infections, 10–20 days.

Chronic cystitis, 10–28 days.

Instructions for use:

To ensure a correct dosage, body weight should be determined as accurately as possible.

The tablets can be administered directly into the mouth of the animals or crumbled and added to a small quantity of food and fed immediately.

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

Doses up to 40 mg amoxicillin and 10 mg clavulanic acid/kg and 60 mg amoxicillin and 15 mg clavulanic acid/kg administered twice daily for 5 days were tolerated well in young dogs and young cats respectively.

No adverse events associated with overdoses other than those listed in section 3.6 were detected in the respective studies (for information on symptomatic treatment see also section on adverse events).

Due to the neurotoxicity of penicillins, overdosing might result in central nervous system symptoms and convulsions. In these cases, treatment with the veterinary medicinal product should be discontinued immediately and symptomatic treatment should be initiated.

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

3.12 Withdrawal periods

Not applicable.

4. PHARMACOLOGICAL INFORMATION

4.1 ATCvet code: QJ01CR02

4.2 Pharmacodynamics

The veterinary medicinal product is an association of amoxicillin and clavulanic acid. Amoxicillin inhibits the cross-linking of the peptidoglycan layer through a selective and irreversible blockage of various enzymes involved in this process (primarily transpeptidases) and thus prevents the formation of an intact bacterial cell wall. This results in an osmotic imbalance that particularly affects bacteria in the logarithmic phase of growth which ultimately leads to bacterial cell lysis. The effect is therefore bactericidal and related to the time the susceptible organisms are exposed to supra-minimum inhibitory concentrations. Clavulanic acid has a similar structure to beta-lactam antibiotics such as amoxicillin. It has a weak antibacterial effect but, compared to amoxicillin, has a higher affinity for beta-lactamases, enzymes produced by Gram-positive and Gram-negative bacteria which inactivate beta-lactam antibiotics through the hydrolytic cleavage of their beta-lactam ring. When administered simultaneously with amoxicillin, clavulanic acid rapidly, progressively and irreversibly inactivates the beta-lactamases by forming a stable molecule-enzyme complex. This prevents inactivation of amoxicillin by beta-lactamases and, as a result, the spectrum of amoxicillin is broadened to include strains that have acquired resistance through secretion of plasmid-derived penicillinase, and strains that are naturally resistant through the production of chromosomally mediated beta-lactamases. Other mechanisms of resistance to beta-lactams include the modification of the antibiotic target site (penicillin-binding proteins), efflux pumps and changes in the permeability of the outer membrane.

4.3 Pharmacokinetics

Following oral administration, amoxicillin is well absorbed from the gastrointestinal tract. In dogs, bioavailability is 60-70%. Following absorption, the highest concentrations are found in the kidneys (urine), bile and further in the liver, lungs, heart, and spleen.

Distribution of amoxicillin to the cerebrospinal fluid is low unless meningitis occurs. Amoxicillin is excreted mainly by the kidneys (unchanged in the urine).

Clavulanic acid is well absorbed after oral administration and has pharmacokinetic properties similar to amoxicillin. Extracellular distribution of clavulanic acid is extensive, but permeation into milk and cerebrospinal fluid is very limited. Clavulanic acid is excreted unchanged by the kidneys.

Dogs

Several studies involving 54 dogs administered the veterinary medicinal product at a dose of 10 mg amoxicillin and 2.5 mg clavulanic acid per kg of body weight showed the following results:

- For amoxicillin, the time to reach maximum concentration (T_{max}) ranged from 1 to 2 hours, with a maximum concentration (C_{max}) between 4.6 and 8.4 mcg/ml. The mean elimination half-life ($T_{1/2}$) was between 0.85 and 1.42 hours.
- For clavulanic acid, the C_{max} ranged from 0.32 to 2 mcg/ml, the T_{max} from 0.5 to 2 hours, and the $T_{1/2}$ from 0.59 to 0.8 hours.

Cats

Studies involving cats administered the veterinary medicinal product at a dose of 10 mg amoxicillin and 2.5 mg clavulanic acid/kg body weight showed the following results:

- For amoxicillin, the T_{max} was 2 hours with a C_{max} between 4.5 and 7.43 mcg/ml. The $T_{1/2}$ was between 0.97 and 1.44 hours.
- For clavulanic acid, the T_{max} was 1 hour with a C_{max} ranging from 1.52 to 2.3 mcg/ml. The $T_{1/2}$ ranged from 0.5 to 0.9 hours.

5. PHARMACEUTICAL PARTICULARS

5.1 Major incompatibilities

Not applicable.

5.2 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 2 years.
Shelf life after dividing the tablet: 24 hours.

5.3 Special precautions for storage

Do not store above 25°C.

Store in a dry place.

Store any remaining half tablet in the blister kept in the original carton.

5.4 Nature and composition of immediate packaging

Strips of laminated aluminium foil with a low-density polyethylene film.

Pack sizes:

Cardboard box containing 10 tablets (1 blister x 10 tablets)

Cardboard box containing 100 tablets (10 blisters x 10 tablets)

Cardboard box containing 250 tablets (25 blisters x 10 tablets)

Cardboard box containing 500 tablets (50 blisters x 10 tablets)

Not all pack sizes may be marketed.

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

Medicines should not be disposed of via wastewater.

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

Zoetis UK Limited

7. MARKETING AUTHORISATION NUMBER

Vm 42058/5234

8. DATE OF FIRST AUTHORISATION

20 August 1990

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

December 2025

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>).

Gavin Hall
Approved: 19 December 2025