

[Version 8, 10/2012]

ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Clavudale 50 mg tablet for cats and dogs (AT, BE, CZ, FR, HU, IE, LU, PL, SK, UK)
Clavudale 40 mg / 10 mg tablet for cats and dogs (DE, EL, ES, NL, PT)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains:

Active substances:

Amoxicillin (as amoxicillin trihydrate)	40 mg
Clavulanic acid (as potassium clavulanate)	10 mg

Excipient(s):

Erythrosine (E127) 0.75 mg

For a full list of excipients see section 6.1.

3. PHARMACEUTICAL FORM

Tablet.

Pink oblong scored meat flavoured tablets.
The tablet can be divided into equal halves.

4. CLINICAL PARTICULARS

4.1 Target species

Cats and dogs.

4.2 Indications for use, specifying the target species

For the treatment of bacterial infections susceptible to amoxicillin in combination with clavulanic acid where clinical experience and/or sensitivity testing indicates the product as the drug of choice.

Uses include:

Skin infections (including deep and superficial pyodermas) associated with Staphylococci and Streptococci;

Infections of the oral cavity (mucous membrane) associated with Clostridia, Corynebacteria, Staphylococci, Streptococci, *Bacteroides* spp. and Pasteurellae.;

Urinary tract infections associated with Staphylococci, Streptococci, *Escherichia coli* and *Proteus* spp.;

Respiratory tract infections associated with Staphylococci, Streptococci and Pasteurellae;

Gastrointestinal infections associated with *Escherichia coli* and *Proteus* spp.

4.3 Contraindications

Do not use in rabbits, guinea pigs, hamsters and gerbils.

Do not use in animals with known hypersensitivity to penicillin or substances of the β -lactam group.

Do not use in animals with either oliguria or anuria associated with renal dysfunction.

Do not use in cases of known resistance to the combination of amoxicillin and clavulanic acid.

4.4 Special warnings for each target species

None known.

4.5 Special precautions for use

Special precautions for use in animals

Caution is advised on the use of the product in small herbivores other than those listed in 4.3. In animals with hepatic and renal dysfunction, the dosing regimen should be carefully evaluated. Use of the product should be based on susceptibility testing and should take into account official national and regional policies with respect to the use of broad spectrum antibiotics. Do not use in cases of bacteria sensitive to narrow spectrum penicillins or to amoxicillin as a single substance. Use of the product deviating from the instructions given in the SPC may increase the prevalence of bacteria resistant to amoxicillin and clavulanic acid, and may decrease the effectiveness of treatment with other β -lactam antibiotics, due to the potential for cross resistance.

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.

- Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations.
- Handle this product with great care to avoid exposure, taking all recommended precautions.
- 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.
- Wash hands after use.

4.6 Adverse reactions (frequency and seriousness)

Mild gastrointestinal signs (diarrhoea, and vomiting) may occur after administration of the product. Allergic reactions (skin reactions, anaphylaxis), blood dyscrasia and colitis may occasionally occur. In these cases, discontinue administration and give symptomatic treatment.

4.7 Use during pregnancy, lactation or lay

Laboratory studies in rats and mice have not produced any evidence of teratogenic or foetotoxic effects. No studies have been conducted in pregnant or lactating dogs or cats. Use only according to the benefit/risk assessment by the responsible veterinarian.

4.8 Interaction with other medicinal products and other forms of interaction

Bacteriostatic antibiotics (e.g. chloramphenicol, macrolides, sulfonamides and tetracyclines) may inhibit the antibacterial effects of penicillins.

The potential for allergic cross-reactivity with other penicillins should be considered.

Penicillins may increase the effect of aminoglycosides.

4.9 Amounts to be administered and administration route

For oral administration only. The dosage rate is 10 mg amoxicillin / 2.5 mg clavulanic acid /kg bodyweight twice daily. The tablets may be added to a little food.

To ensure a correct dosage, body weight should be determined as accurately as possible to avoid under-dosing.

The following table is intended as a guide to dispensing the product at the standard dose rate of 10 mg amoxicillin / 2.5 mg clavulanic acid /kg twice daily.

Body weight (kg)	Number of tablets twice daily
1 to ≤ 2	½
> 2 to ≤ 4	1
> 4 to ≤ 6	1½
> 6 to ≤ 8	2

In refractory cases the dose may be doubled to 20 mg amoxicillin / 5 mg clavulanic acid /kg bodyweight twice daily.

Duration of therapy:

Routine cases involving all indications:

The majority of routine cases respond to between 5 and 7 days of therapy. Lack of effect after 5-7 days of treatment necessitates renewed examination.

Chronic or refractory cases:

In chronic cases, longer courses of antibacterial therapy may be required. In such circumstances, overall treatment length is at the clinician's discretion, but must be long enough to ensure complete resolution of the bacterial disease.

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

Mild gastrointestinal symptoms (diarrhoea, and vomiting) may occur more frequently after overdose of the product.

4.11 Withdrawal period

Not applicable.

5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Beta-lactam antibacterials, penicillins.

ATCvet code: QJ01CR02

5.1 Pharmacodynamic properties

Amoxicillin is an aminobenzylpenicillin from the β-lactam penicillin family which prevents bacterial cell wall formation by interfering with the final step of peptidoglycan synthesis.

Clavulanic acid is an irreversible inhibitor of intracellular and extracellular β-lactamases which protects amoxicillin from inactivation by many β-lactamases.

Amoxicillin in combination with clavulanic acid has a wide range of activity which includes β-lactamase producing strains of both Gram-positive and Gram-negative aerobes, facultative anaerobes and obligate anaerobes, including:

Gram-positives with good susceptibility: *Clostridium* spp. *Corynebacterium* spp. *Staphylococcus* spp. *Streptococcus* spp.

Gram-negatives with good susceptibility: *Pasteurella* spp. *Bacteroides* spp. *Proteus mirabilis*.

Gram-negatives with variable susceptibility: *Escherichia coli*, *Klebsiella* spp. *Bordetella bronchiseptica*.

Resistant bacterial species include *Pseudomonas aeruginosa*, *Enterobacter* spp. and methicillin-resistant *Staphylococcus aureus*.

Susceptibility and resistance patterns can vary with geographical area and bacterial strain, and may change over time.

5.2 Pharmacokinetic particulars

After the oral administration to dogs of the recommended dose of 10 mg amoxicillin / 2.5 mg clavulanic acid /kg weight the following parameters were observed: median T_{max} of 1.5 hours for amoxicillin and of 1.0 hours for clavulanic acid.

After the oral administration to cats of the recommended dose of 10 mg amoxicillin / 2.5 mg clavulanic acid /kg weight the following parameters were observed: median T_{max} of 2.0 hours for amoxicillin and of 0.75 hours for clavulanic acid.

Amoxicillin is well-absorbed following oral administration. In dogs the systemic bioavailability is 60-70%. Amoxicillin (pKa 2.8) has a relatively small apparent distribution volume, a low plasma protein binding (34% in dogs) and a short terminal half-life due to active tubular excretion via the kidneys. Following absorption the highest concentrations are found in the kidneys (urine) and the bile and then in liver, lungs, heart and spleen. The distribution of amoxicillin to the cerebrospinal fluid is low unless the meninges are inflamed.

Clavulanic acid (pKa 2.7) is also well-absorbed following oral administration. The penetration to the cerebrospinal fluid is poor. The plasma protein binding is approximately 25% and the elimination half-life is short. Clavulanic acid is mainly eliminated by renal excretion (unchanged in urine).

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Erythrosine (E127)
Silica, Colloidal Anhydrous
Magnesium Stearate
Sodium Starch Glycolate (Type A)
Cellulose, Microcrystalline
Luctarom 31600z additive

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 3 years.
Shelf life after first opening the immediate packaging: 12 hours.
Any divided tablet portions remaining after 12 hours should be discarded.

6.4. Special precautions for storage

Do not store above 25°C.
Divided tablets should be stored in the blister pack.

6.5 Nature and composition of immediate packaging

Blister packs consisting of orientated Polyamide/Aluminium/Polyvinyl chloride film, heat sealed with aluminium foil (20µm) in strips of 6 tablets. Cartons containing 12 or 24 tablets.
Not all pack sizes may be marketed.

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

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

Dechra Limited
Snaygill Industrial Estate
Keighley Road
Skipton
North Yorkshire
BD23 2RW

8. MARKETING AUTHORISATION NUMBER(S)

UK: Vm 10434/4052
IE: VPA 10799/019/001

9. DATE OF FIRST AUTHORISATION

UK: 8th January 2010 IE: 28th October 2011

10. DATE OF REVISION OF THE TEXT

August 2014