

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Nafpenzal Dry Cow

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each 3 g syringe contains:

Active substances:

Procaine benzylpenicillin	300 mg
Dihydrostreptomycin(as the sulphate)	100 mg
Nafcillin (as the sodium salt)	100 mg

For the full list of excipients, see section 6.1

3. PHARMACEUTICAL FORM

Intramammary suspension.
White, to off-white suspension.

4. CLINICAL PARTICULARS

4.1 Target Species

Cattle (dry cows)

4.2 Indications for use, specifying the target species

For dry cow therapy (treatment of existing subclinical infections and the prevention of new infections which might occur during the dry period, caused by bacteria sensitive to penicillin, streptomycin or nafcillin).

4.3 Contraindications

Do not use in case of hypersensitivity to penicillin, nafcillin or dihydro-streptomycin, or to any of the excipients.
Do not use in lactating animals.

4.4 Special warnings for each target species

None.

4.5 Special precautions for use

Special precautions for use in animals

Not applicable.

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

To the user:

Penicillin and cephalosporins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact.

Hypersensitivity to penicillin may lead to cross reactions to cephalosporins and *vice versa*.

Allergic reactions to these substances are occasionally 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.
4. Wash hands after use.

4.6 Adverse reactions (frequency and seriousness)

Occasional allergies to penicillin have been observed, but these are uncommon.

4.7 Use during pregnancy, lactation or lay

Pregnancy

The product is indicated for use during pregnancy. No toxic effects have been observed on the foetus.

Lactation

Do not use in lactating animals.

4.8 Interaction with other medicinal products and other forms of interaction

Antagonism between Nafpenzal DC and preparations containing bacteriostatic compounds may occur. Resistant bacteria might emerge that show a cross resistance to other beta-lactam antibiotics or aminoglycosides.

4.9 Amounts to be administered and administration route

The contents of one syringe are infused into each quarter via the teat canal when the cow is dried off at the end of each lactation.

Before use, milk the udder completely dry and clean the end of the teat thoroughly. After breaking off the tip of the cap (for partial insertion) or removing the cap from the end of the syringe (for full insertion) insert the nozzle carefully into the teat opening. Squeeze the complete contents of the syringe slowly into the teat and massage gently to disperse the suspension upwards into the quarter. Massage the quarter with care.

The syringe may be used only once. Part used syringes must be discarded safely.

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

Not applicable.

4.11 Withdrawal Period(s)

Meat and offal: 28 days.

Milk: Treatment to calving interval \geq 46 days: 36 hours.

Treatment to calving interval $<$ 46 days: 46 days plus 36 hours after last treatment.

5. PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES

Pharmacotherapeutic group: Combination of antibacterials for intramammary use; procaine benzylpenicillin, combinations with other antibacterials.

ATCvet Code: QJ51RC23.

5.1 Pharmacodynamic properties

Penicillin is a beta-lactam antibiotic which has bactericidal activity against mainly Gram-positive bacteria and some Gram-negative aerobes. It is sensitive to beta-lactamase (penicillinase) inactivation.

Nafcillin is a penicillinase resistant, semisynthetic penicillin.

Dihydrostreptomycin is an aminoglycoside antibiotic which has bactericidal activity against primarily aerobic, Gram-negative bacteria.

Synergism between penicillin and dihydrostreptomycin combined produces a greater activity than the use of either drug by itself, and these in further combination with nafcillin ensure a spectrum of activity against a wide range of bacteria including penicillin-resistant staphylococci.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Aluminium stearate
Liquid paraffin

6.2 Incompatibilities

None known.

6.3 Shelf-life

Shelf life of the veterinary medicinal product as packaged for sale: 3 years

6.4 Special precautions for storage

Do not store above 25 °C.

6.5 Nature and composition of immediate packaging

Each 3 g syringe is made of low density polyethylene.
The syringes are packed in a sachet. The sachet is packed in a carton. Packs of 20 and 120 syringes.

6.6 Special precautions for the disposal of unused veterinary medicinal products or waste materials

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

MSD Animal Health UK Limited
Walton Manor
Walton
Milton Keynes
Buckinghamshire
MK7 7AJ

8. MARKETING AUTHORISATION NUMBER

Vm 01708/4624

9. DATE OF THE FIRST AUTHORISATION

26 August 1976

10. DATE OF REVISION OF THE TEXT

November 2020

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

Approved 17 November 2020