

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE
CARTON BOX (4 and 20 syringes)**

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Mastiplan LC, 300mg/20mg (Cefapirin/Prednisolone), intramammary suspension for lactating cows

2. STATEMENT OF ACTIVE AND OTHER SUBSTANCES

Each syringe of 8g suspension contains:
300 mg Cefapirin as cefapirin sodium
20 mg Prednisolone

3. PHARMACEUTICAL FORM

Intramammary suspension

4. PACKAGE SIZE

Box of 1 sachet of 4 syringes and 4 cleaning towels
Box of 1 sachet of 20 syringes and 20 cleaning towels

5. TARGET SPECIES

Lactating dairy cows

6. INDICATION(S)

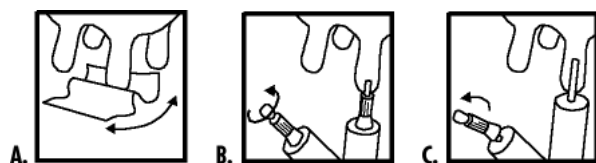
Treatment of clinical mastitis in lactating dairy cows caused by *Staphylococcus aureus*, Coagulase negative *staphylococci*, *Streptococcus agalactiae*, *Streptococcus dysgalactiae*, *Streptococcus uberis* and *Escherichia coli* sensitive to cefapirin.

7. METHOD AND ROUTE(S) OF ADMINISTRATION

The contents of one syringe should be infused into each affected quarter via the teat canal, immediately after milking, at 12 hour intervals for four consecutive milkings. The syringe must only be used once for one teat.

Before infusion, the udder should be milked out completely. The teat and its orifice should be thoroughly cleaned and disinfected with the cleaning towel provided (A). Care should be taken to avoid contamination of the syringe nozzle. Break the top of cap and gently insert either about 5 mm (B) or remove whole cap and gently insert the total length of the nozzle (C) into the teat canal. Infuse the total content of the syringe into the quarter.

Disperse the product by gentle massage of the teat and the udder of the affected cow.



8. WITHDRAWAL PERIOD

Withdrawal period:

Meat and offal: 4 days (96 hours)

Milk: 5.5 days (132 hours)

9. SPECIAL WARNING(S), IF NECESSARY

Read the package leaflet before use.

10. EXPIRY DATE

EXP {month/year}

11. SPECIAL STORAGE CONDITIONS

Store below 25°C.

Keep the syringes in the aluminium sachets and the outer carton.

12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY

Dispose of waste material in accordance with local requirements.

13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, IF APPLICABLE

For animal treatment only. To be supplied only on veterinary prescription.

14. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”

Keep out of the sight and reach of children.

15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

MSD Animal Health UK Ltd.
Walton Manor
Walton
Milton Keynes
MK7 7AJ

16. MARKETING AUTHORISATION NUMBER(S)

Vm 01708/4534

17. MANUFACTURER'S BATCH NUMBER

Batch/Lot {number}

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

SYRINGE

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Mastiplan LC, 300mg/20mg (Cefapirin/Prednisolone), intramammary suspension for lactating cows

2. QUANTITY OF THE ACTIVE SUBSTANCE(S)

Each syringe contains:
300 mg Cefapirin as cefapirin sodium
20 mg Prednisolone

3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES

8 g

4. ROUTE(S) OF ADMINISTRATION

Intramammary use

5. WITHDRAWAL PERIOD

Withdrawal period:
Meat and offal: 4 days (96 hours)
Milk: 5.5 days (132 hours)

6. BATCH NUMBER

Batch/Lot {number}

7. EXPIRY DATE

EXP {month/year}

8. THE WORDS "FOR ANIMAL TREATMENT ONLY"

For animal treatment only.

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

SACHET (Box of 4 syringes and 20 syringes)

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

In ES: Mastiplan
All other countries: Mastiplan LC

2. NAME OF THE MARKETING AUTHORISATION HOLDER

[MSD Animal Health Logo]

3. EXPIRY DATE

EXP {month/year}

4. BATCH NUMBER

Batch/Lot {number}

5. THE WORDS “FOR ANIMAL TREATMENT ONLY”

BE: À usage vétérinaire./ Uitsluitend voor diergeneeskundig gebruik./ Für Tiere.
BG: Само за ветеринарномедицинска употреба.
CZ: Pouze pro zvířata.
DE: Für Tiere.
EL: Αποκλειστικά για κτηνιατρική χρήση.
ES: Uso veterinario.
FR: À usage vétérinaire.
HU: Kizárólag állatgyógyászati alkalmazásra.
IE: For animal treatment only.
IT: Solo per uso veterinario.
LU: À usage vétérinaire./ Für Tiere.
NL: Uitsluitend voor diergeneeskundig gebruik.
PL: Wyłącznie dla zwierząt.
PT: Uso veterinário.
RO: Numai pentru uz veterinar.
SK: Len pre zvieratá.
UK: For animal treatment only.

**PACKAGE LEAFLET FOR:
Mastiplan LC, 300mg/20mg (Cefapirin/Prednisolone), intramammary
suspension for lactating cows**

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE
FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder:

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

Manufacturers responsible for batch release:

Intervet International GmbH
Feldstrasse 1A
D-85716 Unterschleissheim
Germany

Intervet International B.V.
Wim de Körverstraat 35
5831 AN Boxmeer
The Netherlands

2. NAME OF THE VETERINARY MEDICINAL PRODUCT

In ES: Mastiplan, 300mg/20mg (Cefapirin/Prednisolone), intramammary
suspension for lactating cows

In PL: Mastiplan LC, 300mg+20mg/8g, intramammary suspension for
lactating cows

All other countries: Mastiplan LC, 300mg/20mg (Cefapirin/Prednisolone),
intramammary suspension for lactating cows

**3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER
INGREDIENT(S)**

Each syringe of 8 g suspension contains:
300 mg cefapirin as cefapirin sodium
20 mg prednisolone

Intramammary suspension
Off-white/yellow to pink, oily, homogeneous suspension

4. INDICATIONS

Treatment of clinical mastitis in lactating dairy cows caused by *Staphylococcus aureus*,
Coagulase negative *staphylococci*, *Streptococcus agalactiae*, *Streptococcus*
dysgalactiae, *Streptococcus uberis* and *Escherichia coli* sensitive to cefapirin.

5. CONTRAINDICATIONS

Do not use in cases of hypersensitivity to cephalosporins, other β -lactams antibiotics, or to any of the excipients.

6. ADVERSE REACTIONS

In very rare cases immediate hypersensitivity reactions may occur.

The frequency of adverse reactions is defined using the following convention:

-very common (more than 1 in 10 animals displaying adverse reaction(s) during the course of one treatment)

-common (more than 1 but less than 10 animals in 100 animals)

-uncommon (more than 1 but less than 10 animals in 1,000 animals)

-rare (more than 1 but less than 10 animals in 10,000 animals)

-very rare (less than 1 animal in 10,000 animals, including isolated reports).

If you notice any serious effects or other effects not mentioned in this package leaflet, please inform your veterinary surgeon.

7. TARGET SPECIES

Cattle (Lactating dairy cows)

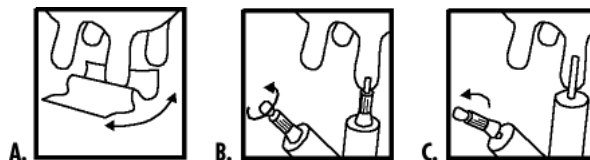
8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION

The contents of one syringe should be infused into each affected quarter via the teat canal, immediately after milking, at 12 hour intervals for four consecutive milkings. The syringe must only be used once for one teat.

9. ADVICE ON CORRECT ADMINISTRATION

Before infusion, the udder should be milked out completely. The teat and its orifice should be thoroughly cleaned and disinfected with the cleaning towel provided (A). Care should be taken to avoid contamination of the syringe nozzle. Break the top of cap and gently insert either about 5 mm (B) or remove whole cap and gently insert the total length of the nozzle (C) into the teat canal. Infuse the total content of the syringe into the quarter.

Disperse the product by gentle massage of the teat and the udder of the affected cow.



10. WITHDRAWAL PERIOD

Meat and offal: 4 days (96 hours)

Milk: 5.5 days (132 hours)

11. SPECIAL STORAGE PRECAUTIONS

Keep out of the sight and reach of children.

Keep the syringes in the aluminium sachets and the outer carton.

Store below 25°C.

Do not use this veterinary medicinal product after the expiry date which is stated on the label and carton after EXP.

12. SPECIAL WARNING(S)

Special precautions for use in animals:

Do not use the cleaning towels on teats with open wounds.

Official, national and regional antimicrobial policies should be taken into account when the product is used. Use of the product should be based on susceptibility testing of the bacteria isolated from the animal. If this is not possible, therapy should be based on local (regional, farm level) epidemiological information about susceptibility of the target bacteria. Use of the product deviating from the instructions given in the SPC may increase the prevalence of bacteria resistant to the cefapirin and may decrease the effectiveness of the treatment.

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 sensitivity to cephalosporin and vice versa. Allergic reactions to these substances may occasionally be serious.

Do not handle this product if you know you are sensitised to penicillins or cephalosporins or if you have been advised not to work with such preparation.

Handle this product with 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. Swellings of the face, lips or eyes or difficulty breathing are more serious symptoms and require urgent medical attention.

Wash hands after using the cleaning towels and wear protective gloves if skin irritation due to isopropyl alcohol is known or suspected.

Use during pregnancy or lactation:

The veterinary medicinal product is intended for use during lactation

Laboratory studies in mice, rats, rabbits, and hamster have not produced any evidence of a teratogenic, foetotoxic, maternotoxic effects.

Because no specific studies have been performed in the target animal species, use only according to the benefit/risk assessment by the responsible veterinarian during pregnancy and in breeding animals.

Interaction with other medicinal products and other forms of interaction:

The concurrent use with bacteriostatic antibiotics may cause antagonistic effects.

The concurrent use of parenteral aminoglycosides or other nephrotoxic drugs is not recommended.

13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED

August 2020

15. OTHER INFORMATION

Cefapirin is a first generation cephalosporin which acts by inhibition of cell wall synthesis. It is bactericidal with a time dependant mechanism of action and is characterised by its broad therapeutic spectrum of activity.

In vitro activity has been demonstrated against common Gram positive and Gram negative bacteria including *Escherichia coli*, *Staphylococcus aureus*, coagulase negative *Staphylococci*, *Streptococcus dysgalactiae*, *Streptococcus agalactiae*, and *Streptococcus uberis*.

An overview of the MIC₅₀ and MIC₉₀ values of common bacterial mastitis pathogens collected for a resistance monitoring programme (VetPath programme from the European Animal Health Study Centre (CEESA)) is presented in the table below (except for data regarding *Streptococcus agalactiae*, which were gathered during clinical trials conducted between 1984 and 2005):

Bacterial species isolated	N	MIC ₅₀ (µg/ml)	MIC ₉₀ (µg/ml)
<i>Staphylococcus aureus</i>	192	0.12	0.25
coagulase negative <i>Staphylococci</i>	165	0.12	0.25
<i>Streptococcus uberis</i>	188	0.25	0.5
<i>Streptococcus dysgalactiae</i>	95	0.06	0.06
<i>Streptococcus agalactiae</i>	58	0.25	0.25
<i>Escherichia coli</i>	207	16	>32

During the last 10 years only an increase in the MIC₉₀ values of *E.coli* was observed.

Prednisolone exerts anti-inflammatory properties through the inhibition of the early and the late phases of inflammation. After intramammary application, prednisolone induces a reduction in the swelling and subsequent size of the infected quarter and promotes a return to normal temperature in infected animals.

After intramammary administration of Mastiplan LC, cefapirin and prednisolone are mainly excreted via milk during milking. The absorption of both cefapirin and prednisolone into the blood stream is fast and limited. The absorbed fractions of both cefapirin and prednisolone are mainly excreted in urine.

An overview of the concentrations of cefapirin and prednisolone in milk during treatment is presented in the table below:

Active substance	Mean milk concentrations of active substances at milking relative to first treatment				
	0	1 st milking	2 nd milking	3 rd milking	4 th milking
Cefapirin (µg/mL)	0	27.0 ± 6.2	30.2 ± 7.9	40.0 ± 8.8	34.6 ± 6.5
Prednisolone (ng/mL)	0	182.0 ± 61.7	100.8 ± 51.0	283.7 ± 129.8	101.5 ± 38.8

Pack sizes:

- Box of 1 sachet of 4 syringes and 4 cleaning towels.
- Box of 1 sachet of 20 syringes and 20 cleaning towels.

Not all pack sizes may be marketed.

For any information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.