

OXYTET 100- oxytetracycline hydrochloride injection, solution
Norbrook Laboratories Limited

Oxytet 100
(oxytetracycline injection)
ANTIBIOTIC
Each mL contains 100 mg
Oxytetracycline HCl

For use in Beef Cattle, Beef Calves, Non-lactating Dairy Cattle and Dairy Calves Only

Each mL Contains: 100 mg oxytetracycline HCl, 5.75% w/v magnesium chloride • 6 H₂O, 17% v/v water for injection, 1.3% w/v sodium formaldehyde Sulfoxylate as a preservative and q.s. with propylene glycol. pH adjusted with monoethanolamine.

DESCRIPTION

Oxytet 100 (oxytetracycline injection) is a sterile ready-to-use preparation containing 100 mg/mL oxytetracycline HCl, for administration of the broad spectrum antibiotic, oxytetracycline, by injection.

ANTIBIOTIC ACTION OF OXYTETRACYCLINE

Oxytetracycline is effective against a wide range of gram-negative and gram-positive organisms that are pathogenic for cattle. The antibiotic is primarily bacteriostatic in effect, and is believed to exert its antimicrobial action by the inhibition of microbial protein synthesis. The antibiotic activity of oxytetracycline is not appreciably diminished in the presence of body fluids, serum or exudates. Since the drugs in the tetracycline class have similar antimicrobial spectra, organisms can develop cross resistance among them. Oxytetracycline is concentrated by the liver in the bile and excreted in the urine and feces at high concentrations and in a biologically active form.

WARNING

Discontinue treatment with Oxytet 100 at least 22 days prior to slaughter of the animal. Not for use in lactating dairy animals.

A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

CAUTION

Rapid intravenous administration may result in animal collapse. Oxytetracycline should be administered intravenously slowly over a period of at least 5 minutes.

If no improvement occurs within 24 to 48 hours, consult a veterinarian. Do not use the drug for more than 4 consecutive days. Use beyond 4 days or doses higher than maximum recommended dose may result in antibiotic tissue residues beyond the withdrawal period.

PRECAUTIONS

The improper or accidental injection of the drug outside of the vein will cause local tissue irritation manifested by temporary swelling and discoloration at the injection site.

Shortly after injection, treated animals may have a transient hemoglobinuria (darkened urine).

Consult with your veterinarian prior to administering this product in order to determine the proper

treatment required in the event of an adverse reaction. At the first sign of any adverse reaction, discontinue use of product and seek the advice of your veterinarian. Some of the reactions may be attributed either to anaphylaxis (an allergic reaction) or to cardiovascular collapse of unknown cause.

Because bacteriostatic drugs interfere with the bactericidal action of penicillin, do not give oxytetracycline hydrochloride in conjunction with penicillin.

As with other antibiotics, use of this drug may result in over-growth of non-susceptible organisms. If any unusual symptoms occur or in the absence of a favorable response following treatment, discontinue use immediately and call a veterinarian.

ADVERSE REACTIONS

Reports of adverse reactions associated with oxytetracycline administration include injection site swelling, restlessness, ataxia, trembling, swelling of eyelids, ears, muzzle, anus and vulva (or scrotum and sheath in males), respiratory abnormalities (labored breathing), frothing at the mouth, collapse and possibly death. Some of these reactions may be attributed either to anaphylaxis (an allergic reaction) or to cardiovascular collapse of unknown cause. To report suspected adverse drug events, for technical assistance or to obtain a copy of the Safety Data Sheet (SDS), contact Norbrook at 1-866-591-5777. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.

GENERAL INDICATIONS FOR USE

A great many of the pathogens involved in cattle diseases are known to be susceptible to oxytetracycline hydrochloride therapy. Many strains of organisms, however, have shown resistance to oxytetracycline. In the case of certain coliforms, streptococci and staphylococci, it may be advisable to conduct culture and sensitivity testing to determine susceptibility of the infecting organism to oxytetracycline. In this manner, the likelihood of successful treatment with Oxytet 100 solution can be determined in advance.

DISEASES FOR WHICH OXYTET 100 IS INDICATED

The use of Oxytet 100 is indicated in beef cattle, beef calves, non-lactating dairy cattle and dairy calves for treatment of the following disease conditions caused by one or more of the oxytetracycline sensitive pathogens listed as follows:

Disease	Causative organism(s) which show sensitivity to Oxytet 100
Bacterial Pneumonia and Shipping Fever complex associated with <i>Pasteurella</i> spp.	<i>Pasteurella</i> spp
Bacterial Enteritis (scours)	<i>Escherichia coli</i>
Necrotic Pododermatitis (Foot Rot)	<i>Fusobacterium necrophorum</i>
Calf Diphtheria	<i>Fusobacterium necrophorum</i>
Wooden Tongue	<i>Actinobacillus lignieresii</i>
Wound Infections; Metritis; Traumatic Injury	Caused by oxytetracycline- Acute susceptible strains of streptococcal and staphylococcal organisms.

RECOMMENDED DAILY DOSAGES

Treat at the first clinical signs of disease.

The intravenous injection of 3 to 5 mg of oxytetracycline hydrochloride per pound of body weight per

day (3 to 5 mL per 100 lbs body weight) is the recommended dosage.

Severe foot-rot and severe forms of the indicated diseases should be treated with 5 mg per pound of body weight. Surgical procedures may be indicated in some forms of foot-rot or other conditions. In disease treatment, the daily dose of Oxytet 100 should be continued 24 to 48 hours following remission of disease symptoms; however, not to exceed a total of 4 consecutive days.

DIRECTIONS FOR MAKING AN INTRAVENOUS INJECTION IN CATTLE

Equipment Recommended

1. Choke rope - a rope or cord about 5 feet long, with a loop in one end, to be used as a tourniquet.
2. Syringe and needles; gravity flow intravenous set. (See Fig. 1.)



FIGURE 1

3. Use new, very sharp hypodermic needles, 16-gauge, 1½ to 2 inches long. Dull needles will not work. Extra needles should be available in case the one being used becomes clogged.
4. Scissors or clippers.
5. 70% rubbing alcohol compound or other equally effective antiseptic for disinfecting the skin.
6. The medication to be given.

PREPARATION OF EQUIPMENT

Thoroughly clean the needles, syringe and intravenous set and disinfect them by boiling in water for twenty minutes or by immersing in a suitable chemical disinfectant such as 70% alcohol for a period of not less than 30 minutes. Warm the bottle of medication to approximately body temperature and keep warm until used.

It is recommended that the correct dose be diluted in water for injection, sodium chloride injection or other suitable vehicle immediately prior to administration. Doses up to 50 mL may be diluted in 250 mL. Larger doses may be diluted in 500 mL of one of the diluents. Adverse reactions may be minimized and the drug dose can be better regulated by this method of administration.

Avoid touching the needle with the hands at all times.

In case of the syringe method of administration, disinfect the vial cap by wiping with 70% alcohol or other suitable antiseptic. Touching a sterile needle only by the hub, attach it to the syringe and push the plunger down the barrel to empty it of air. Puncture the rubber cap of the vial and withdraw the plunger upward in the syringe to draw up a volume of Oxytet 100, 100 mg/mL of about 5 mL more than is needed for injection. Withdraw from the vial and, pointing the needle upward, remove all air bubbles from the syringe by pushing the plunger upward to the volume required.

If the injection cannot be made immediately, the tip of the needle may be covered with cotton soaked in 70% alcohol to prevent contamination.

PREPARATION OF THE ANIMAL FOR INJECTION

1. Approximate location of vein. The jugular vein runs in the jugular groove on each side of the neck from the angle of the jaw to just above the brisket and slightly above and to the side of the windpipe. (See Figure 2 and 3.)



FIGURE 2

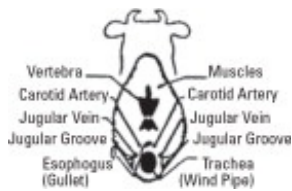


FIGURE 3

- Method of restraint - A stanchion or chute is ideal for restraining the animal. With a halter, rope or cattle leader (nose tongs), pull the animal's head around the side of the stanchion, cattle chute or post in such a manner as to form a bow in the neck (see Figure 4), then snub the head securely to prevent movement. By forming the bow in the neck, the outside curvature of the bow tends to expose the jugular vein and make it easily accessible. Caution: Avoid a tight rope or halter around the throat or upper neck which might impede blood flow. Animals that are down present no problem as far as restraint is concerned.



FIGURE 4

- Clip hair in area where injection is to be made (over the vein in the upper third of the neck). Clean and disinfect the skin with alcohol or other suitable antiseptic.

DOSAGE FOR INJECTION

Refer to the table below for proper dosage according to body weight of the animal.

Weight of Animals, Lbs (Beef Cattle, Beef Calves, Non-Lactating Dairy Cattle, Dairy Calves)	Milligrams of Oxytetracycline Hydrochloride per 100 lbs of Body Weight per Day	Daily Dosage of Oxytet 100 (mL)
50 lbs	300 – 500 mg	1.5 – 2.5 mL
100 lbs	300 – 500 mg	3 – 5 mL
200 lbs	300 – 500 mg	6 – 10 mL
300 lbs	300 – 500 mg	9 – 15 mL
400 lbs	300 – 500 mg	12 – 20 mL
500 lbs	300 – 500 mg	15 – 25 mL
600 lbs	300 – 500 mg	18 – 30 mL
800 lbs	300 – 500 mg	24 – 40 mL
1000 lbs	300 – 500 mg	30 – 50 mL
1200 lbs	300 – 500 mg	36 – 60 mL
1400 lbs	300 – 500 mg	42 – 70 mL

CAUTION: If no improvement is noted within 24 to 48 hours consult a veterinarian.

For intravenous use only.

ENTERING THE VEIN AND MAKING THE INJECTION

- Raise the vein: this is accomplished by tying the choke rope tight around the neck, close to the shoulder. The rope should be tied in such a way that it will not come loose and so that it can be untied quickly by pulling the loose end. (See Figure 4.) In thick-necked animals, a block of wood placed in the jugular groove between the rope and the hide will help considerably in applying the desired pressure at the right point. The vein is a soft flexible tube through which blood flows back to the heart. Under ordinary conditions it cannot be seen or felt with the fingers. When the flow of

blood is blocked at the base of the neck by the choke rope, the vein becomes enlarged and rigid because of the back pressure. If the choke rope is sufficiently tight, the vein stands out and can be easily seen and felt in the thick-necked animals. As a further check in identifying the vein, tap it with the fingers in front of the choke rope. Pulsations that can be seen or felt with the fingers in front of the point being tapped will confirm the fact that the vein is properly distended. It is impossible to put the needle into the vein unless it is distended. Experienced operators are able to raise the vein simply by hand pressure, but the use of a choke rope is more certain.

2. Inserting the needle. This involves three distinct steps. *First*, insert the needle through the hide. *Second*, insert the needle into the vein. This may require two or three attempts before the vein is entered. The vein has a tendency to roll away from the point of the needle, especially if the needle is not sharp. The vein can be steadied with the thumb and finger of one hand. With the other hand, the needle point is placed directly over the vein, slanting it so that its direction is along the length of the vein, either toward the head or toward the heart. Properly positioned this way, a quick thrust of the needle will be followed by a spurt of blood through the needle, which indicates that the vein has been entered. *Third*, once in the vein, the needle should be inserted along the length of the vein all the way to the hub, exercising caution to see that the needle does not penetrate to the opposite side of the vein. Continuous steady flow of blood through the needle indicates that the needle is still in the vein. If blood does not flow continuously, the needle is out of the vein (or clogged) and another attempt must be made. If difficulty is encountered, it may be advisable to use the vein on the other side of the neck.
3. While the needle is being placed in proper position in the vein, an assistant should get the medication ready so that the injection can be started without delay after the vein has been entered. Remove the rubber stopper from the bottle of intravenous solution, connect the intravenous tube to the neck of the bottle, invert the bottle and allow some of the solution to run through the tube to eliminate all air bubbles.
4. Making the injection. With needle in proper position as indicated by a continuous flow of blood, release the choke rope by a quick pull on the free end. This is essential - the medication cannot flow into the vein while the vein is blocked. Immediately connect the intravenous tube to the needle, and raise the bottle. The solution will flow by gravity. (See Figure 5.) Rapid injection may occasionally produce shock. Administer slowly. The animal should be observed at all times during the injection in order not to give the solution too fast. This may be determined by watching the respiration of the animal and feeling or listening to the heart beat. If the heart beat and respiration increase markedly, the rate of injection should be immediately stopped by pinching the tube until the animal recovers approximately to its previous respiration or heart beat rate, when the injection can be resumed at a slower rate. The rate of flow can be controlled by pinching the tube between the thumb and forefinger or by raising or lowering the bottle.

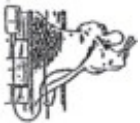


FIGURE 5

Bubbles entering the bottle through the air tube or valve indicate the rate at which the medication is flowing. If the flow should stop, this means that the needle has slipped out of the vein (or is clogged) and the operation will have to be repeated. If using the syringe technique, pull back gently on the plunger: if blood flows into the syringe, the needle is in proper position. Depress the plunger slowly. If there is any resistance to the depression of the plunger, stop and repeat insertion procedure. The resistance indicates that either the needle is clogged or it has slipped out of the vein. With either method of administration, syringe or gravity flow, watch for any swelling under the skin near the needle, which would indicate that the medication is not going into the vein. Should this occur, it is best to try the vein on the opposite side of the neck. Sudden movement of the animal, especially twisting of the neck or raising or lowering the head, may sometimes cause the needle to slip out of the vein. To prevent this, tape the needle hub to the skin of the neck to hold the needle in position. Whenever there is any doubt as to the position of the needle, this should be checked in the

following manner: Pinch off the intravenous tube to stop flow, disconnect the tube from the needle and re-apply pressure to the vein. Free flow of blood through the needle indicates that it is in proper position and the injection can then be continued. If using the syringe, gently pull back on the plunger. Blood should flow into the syringe.

5. Removing the needle. When the injection is complete, remove needle with a straight pull. Then apply pressure over the area of injection momentarily to control any bleeding through needle puncture, using cotton soaked in alcohol or other suitable antiseptic.

INSTRUCTIONS FOR CARE OF SICK ANIMALS

The use of antibiotics, as with most medications used in the management of diseases, is based on accurate diagnosis and adequate treatment. When properly used in the treatment of diseases caused by oxytetracycline-susceptible organisms, animals usually show a noticeable improvement within 24 to 48 hours. If improvement does not occur within this period of time, the diagnosis and treatment of animal diseases should be carried out by a veterinarian. The use of professional veterinary and laboratory services can reduce treatment costs, time and needless losses. Good management, housing, sanitation and nutrition are essential in the care of animals and in the successful treatment of disease.

PACKAGE INFORMATION

Oxytet 100 is available in 500 mL multidose vials containing 100 mg oxytetracycline hydrochloride per mL.

STORAGE CONDITIONS:

Store at controlled room temperature 20-25°C (68-77°F); excursions permitted 15-30°C (59-86°F). Protect from freezing. Use within 60 days of first puncture and puncture a maximum of 36 times.

If using a needle or draw-off spike larger than 16 gauge, discard any remaining product immediately after use.

Not for Use in Humans

Restricted Drug - California. Use Only as Directed.

Keep Out of Reach of Children

Made in the UK

Approved by FDA under ANADA # 200-452

Manufactured by:
Norbrook Laboratories Limited
Newry, BT35 6PU, Co. Down,
Northern Ireland.

Oct 2019

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Norbrook

Principal Display Panel – Carton Label

NDC 55529-003-05

Oxytet 100

(oxytetracycline injection)

ANTIBIOTIC

Multiple Dose Sterile Vial (100 mg/mL)

Each mL contains 100 mg of oxytetracycline hydrochloride

For use in Beef Cattle, Beef Calves,
Non-lactating Dairy Cattle and Dairy
Calves Only

Approved by FDA under ANADA # 200-452

Net Contents: 500 mL

Norbrook™



THIS AREA
VARNISH FREE
30 x 50 mm

500 mL

[oxytetracycline injection]
Oxytet 100

NDC 55529-003-05

Oxytet 100 is a sterile, preconstituted solution of the broad-spectrum antibiotic oxytetracycline.

Each mL contains: 100 mg of oxytetracycline hydrochloride.

CAUTION:

Rapid intravenous administration may result in animal collapse. Oxytetracycline should be administered intravenously slowly over a period of at least 5 minutes.

If no improvement occurs within 24 to 48 hours, consult a veterinarian. Do not use the drug for more than 4 consecutive days. Use beyond 4 days or dosage higher than the maximum recommended dose may result in antibiotic residue in the tissues beyond the withdrawal time

WARNING:

Discontinue treatment at least 22 days prior to slaughter of the animal. Not for use in lactating dairy animals. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

PRECAUTIONS:

The improper or accidental injection of the drug outside of the vein will cause local tissue irritation manifested by temporary swelling and discoloration at the injection site.

Refer to Package Insert for Complete Directions and Warnings

Storage Conditions:


Store at controlled room temperature 20-25°C (68-77°F); excursions permitted 15-30°C (59-86°F). Protect from freezing. Use within 60 days of first puncture and puncture a maximum of 36 times. If using a needle or draw-off spike larger than 16 gauge, discard any remaining product immediately after use.

Note:

Solution may darken on storage but potency remains unaffected.

Not for Use in Humans

California requires:

 **WARNING:** Reproductive Harm - www.P65Warnings.ca.gov

Restricted Drug – California. Use Only as Directed.

Keep Out of Reach of Children

Made in the UK

Manufactured by:
Norbrook Laboratories Limited,
Newry, BT35 6PU, Co. Down, Northern Ireland

NDC 55529-003-05

Oxytet 100
(oxytetracycline injection)

ANTIBIOTIC
Multiple Dose Sterile Vial (100 mg/mL)

Each mL contains 100 mg of oxytetracycline hydrochloride

For use in Beef Cattle, Beef Calves,
Non-lactating Dairy Cattle and Dairy
Calves Only

Approved by FDA under ANADA # 200-452

Net Contents: 500 mL



Oct 2019
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Dosage and Administration: 3-5 mg/lb body weight per day for a maximum of 4 consecutive days. For intravenous administration only.

CATTLE DOSAGE GUIDE

At the first signs of pneumonia or scours,* administer a single dose of Oxytet 100 by intravenous injection to the following weight categories.

Oxytetracycline Hydrochloride (mg)

Animal Weight (lb)	per 100 lbs body weight	Number of mL or cc
50	300 - 500	1.5 - 2.5
100	300 - 500	3 - 5
200	300 - 500	6 - 10
300	300 - 500	9 - 15
400	300 - 500	12 - 20
500	300 - 500	15 - 25
600	300 - 500	18 - 30
800	300 - 500	24 - 40
1000	300 - 500	30 - 50
1200	300 - 500	36 - 60
1400	300 - 500	42 - 70

*See package insert for dosing instructions for other indicated disease and full product information. Discontinue treatment at least 22 days prior to slaughter.

KLD0273 - 79 x 79 x 187.5 mm



Principal Display Panel – Vial Label

NDC 55529-003-05

Oxytet 100

(oxytetracycline injection)

ANTIBIOTIC

100 mg/mL

Sterile

For use in Beef Cattle, Beef Calves,
Non-lactating Dairy Cattle and Dairy
Calves Only

Not for Use in Humans

Restricted Drug – California. Use Only
as Directed.

Keep Out of Reach of Children

Approved by FDA under ANADA # 200-452

NET CONTENTS: 500 mL

Norbrook™

Indications: Oxytet 100 (oxytetracycline injection) is for the treatment of bacterial pneumonia and shipping fever complex associated with *Pasteurella* spp, bacterial enteritis (scours) caused by *Escherichia coli*, necrotic pododermatitis (foot rot) and calf diphtheria caused by *Fusobacterium necrophorum*, wooden tongue caused by *Actinobacillus lignieresii*, wound infection and traumatic injury caused by oxytetracycline susceptible strains of streptococcal and staphylococcal bacteria.

Dosage and Administration: 3-5 mg/lb body weight per day for a maximum of 4 consecutive days. For intravenous administration only. See package insert for complete directions and warnings.

WARNING: Discontinue treatment at least 22 days prior to slaughter. NOT for use in lactating dairy cattle. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

CAUTION: Rapid intravenous administration may result in animal collapse. Oxytetracycline should be administered intravenously slowly over a period of at least 5 minutes. If no improvement occurs within 24 to 48 hours, consult a veterinarian. Do not use the drug for more than 4 consecutive days. Use beyond 4 days or dosage higher than the maximum recommended dose may result in antibiotic residue in the tissues beyond the withdrawal time.

NDC 55529-003-05

Oxytet 100
(oxytetracycline injection)

ANTIBIOTIC
100 mg/mL
Sterile

For use in Beef Cattle, Beef Calves,
Non-lactating Dairy Cattle and Dairy
Calves Only
Not for Use in Humans
Restricted Drug - California. Use Only
as Directed.
Keep Out of Reach of Children

Approved by FDA under ANADA # 200-452

NET CONTENTS: 500 mL

EACH mL CONTAINS:
Oxytetracycline HCl 100 mg
Magnesium Chloride • 6 H₂O 5.75% w/v
Water for Injection 17.0% v/v
Propylene Glycol q.s.
With Sodium Formaldehyde Sulfoxylate 1.3% w/v, as a preservative and Monoethanolamine for pH adjustment.

NOTE: Solution may darken on storage but potency remains unaffected.

STORAGE CONDITIONS: Store at controlled room temperature 20-25°C (68-77°F); excursions permitted 15-30°C (59-86°F). Protect from freezing. Use within 60 days of first puncture and puncture a maximum of 36 times. If using a needle or draw-off spike larger than 16 gauge, discard any remaining product immediately after use.

Made in UK
Manufactured by:
Norbrook Laboratories
Limited, Newry,
BT35 6PU, Lot No.:
Co. Down, Northern Ireland Exp. Date:
Oct 2019 003670L06



OXYTET 100

oxytetracycline hydrochloride injection, solution

Product Information

Product Type	OTC ANIMAL DRUG	Item Code (Source)	NDC:55529-003
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
oxytetracycline hydrochloride (UNII: 4U7K4N52ZM) (oxytetracycline anhydrous - UNII:SLF0D9077S)	oxytetracycline hydrochloride	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
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magnesium chloride (UNII: 02F3473H9O)	
sodium formaldehyde sulfoxylate (UNII: X4ZGP7K714)	
water (UNII: 059QF0KO0R)	
polyethylene glycol, unspecified (UNII: 3WJQ0SDW1A)	
monoethanolamine (UNII: 5KV86114PT)	

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55529-003-05	1 in 1 CARTON		
1		500 mL in 1 VIAL, GLASS		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANADA	ANADA200452	07/07/2008	

Labeler - Norbrook Laboratories Limited (214580029)

Establishment			
Name	Address	ID/FEI	Business Operations
Norbrook Laboratories Limited		232880554	API MANUFACTURE, MANUFACTURE, ANALYSIS

Revised: 5/2020

Norbrook Laboratories Limited