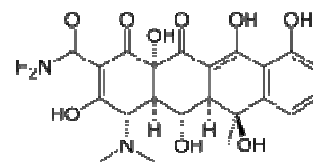


Product Data Sheet

Cat # ABT-210-010	Oxytetracycline	Size: 10 g
Cat # ABT-210-100	Oxytetracycline	Size: 100 g

General Information

Oxytetracycline was the second of the broad-spectrum tetracycline group of antibiotics to be discovered. Oxytetracycline works by interfering with the ability of bacteria to produce proteins that are essential to them. Without these proteins the bacteria cannot grow, multiply and increase in numbers. Oxytetracycline therefore stops the spread of the infection and the remaining bacteria are killed by the immune system or eventually die. Oxytetracycline is a broad spectrum antibiotic that is active against a wide variety of bacteria. However, some strains of bacteria have developed resistance to this antibiotic, which has reduced its effectiveness for treating some types of infection.



Molecular Formula:
(C₂₂H₂₄N₂O₉)
Molecular Weight:
460.434 g/mol

Oxytetracycline is still used to treat infections caused by chlamydia (eg the chest infection psittacosis, the eye infection trachoma, and the genital infection urethritis) and infections caused by mycoplasma organisms (eg pneumonia). Oxytetracycline is used to treat acne, due to its activity against the bacteria on the skin that cause acne (*Propionibacterium acnes*). It is used to treat flare-ups of chronic bronchitis, due to its activity against the bacteria usually responsible, *Haemophilus influenzae*. Oxytetracycline may also be used to treat other rarer infections, such as those caused by a group of micro-organisms called rickettsiae (eg Q fever). To make sure the bacteria causing an infection are susceptible to oxytetracycline your doctor may take a tissue sample, for example a swab from the infected area, or a urine or blood sample.

Oxytetracycline, like other Tetracyclines, is used to treat many infections common and rare (see Tetracycline antibiotics group). Its better absorption profile makes it preferable to tetracycline for moderately severe acne at a dosage of 250-500mg four times a day for usually 6-8 weeks at a time, but alternatives should be sought if no improvement occurs by 3 months.

Test Items	Standard	Results
Appearance	Light yellow crystalline powder	Conform
Purity	>99%	99.3%
Loss on drying	0.5%	0.3%
Heavy metals	≤10ppm	Complies
Residues on ignition	<0.1%	0.08%
Organic impurities	Meet requirements	Conform
Conclusion	Meet requirements	

Usage: This item is for LABORATORY RESEARCH USE ONLY. It is not approved by US FDA for use in humans or animals. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-210-010 **120503A**

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