

A unique solution to an infection problem : prescribe Biotet B oxytetracycline with built-in compensation.

Contributors

CAPS

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A unique
solution to
an infection
problem



Prescribe
BIOTET B
oxytetracycline with
built-in compensation

BIOTET B
satisfies
the metabolic demand
present during infection

The B group vitamins in BIOTET B provide a
vitamin supplement in addition to the anti-infective
action.

BIOTET B
compensates for depressed
metabolic supply of vitamin B
during antibiotic therapy

The B group vitamins in BIOTET B supplement the daily
supply of vitamin B complex usually provided by the
metabolic processes of normal intestinal
bacteria

"Vitamin deficiency may occur especially
with prolonged dosage."
p1187 Martindale 27th Edition June 1977.

But why a tablet
within the **BIOTET B** capsule?

"Oxytetracycline is incompatible with...the vitamins of the B group..."
p.1164 Martindale 27th Edition June 1977.

The B vitamins are incorporated in the form of a filmcoated tablet within the capsule containing oxytetracycline. This method enhances stability of the preparation as any interaction between the oxytetracycline and the vitamins is prevented. This method of incorporation was developed by "CAPS" RESEARCH - hence the product is named a "CAPLET".

BIOTET B

costs no more - is convenient - ensures patient compliance



BIOTET B caplets
oxytetracycline with
built-in compensation

BIOTET B

Oxytetracycline with Vitamins

Formula:

Each Biotet B 'Caplet' contains: Oxytetracycline base (As HCl) ... 250 mg, Vitamin B₁ ... 5 mg, Vitamin B₂ ... 2 mg, Vitamin B₆ ... 2 mg, Vitamin B₁₂ ... 5 mcg, Calcium Pantothenate ... 3 mg and Nicotinamide ... 10 mg. Inclusion of vitamins: The B vitamins are incorporated into the preparation in the form of a filmcoated tablet within the capsule. This method enhances stability of the preparation as any interaction between the oxytetracycline and the vitamins is prevented. This method of incorporation is a CAPS research development and the product is, therefore, named a 'CAPLET' because of the tablet within the capsule.

Indications:

Biotet B is a broad spectrum antibiotic effective against a large number of gram-positive and gram-negative pathogenic bacteria, both aerobic and anaerobic, spirochetes, some rickettsiae and certain of the large viruses. In addition, success has been reported in the control of amoebiasis, trichomoniasis and pinworm infections. NOTE: Biotet B is not usually effective in infections caused by *Pseudomonas aeruginosa* (bacterium *Pyocyanum*) or *Proteus vulgaris*.

Mode of Action:

Oxytetracycline acts by interfering with protein synthesis of the infecting organism, but the exact mechanism has not yet been established. The B group vitamins included in Biotet B satisfy the increased metabolic demand present during infections, providing a vitamin supplement in addition to the anti-infective action. The B group vitamins also compensate for the possibility of long-term antibiotic therapy depressing normal intestinal bacteria, whose metabolic processes usually provide part of the daily supply of vitamin B complex: a nutritional deficiency in the patient is thus prevented.

Absorption and Excretion:

Biotet B is readily absorbed from the gastro-intestinal tract following oral administration, and diffuses readily through the placenta and is present in the foetal circulation. It diffuses into the pleural fluid and under some circumstances passes the blood-brain barrier. Concentration of Biotet B appears to take place in the hepatic system and is excreted in the bile. It is found in high concentrations in the urine and stools in a biologically active form.

Side effects, Toxic effects and Precautions:

1. As with other antibiotics, side effects, mostly due to modification of the gastro-intestinal or local microbial flora have been reported, but are rare. These include glossitis, stomatitis, proctitis, nausea, diarrhoea, vomiting, vaginitis and dermatitis. 2. Overgrowth of non-susceptible organisms: (a) overgrowth of pathogenic fungi such as *Candida albicans* in the mouth may occasionally cause soreness, redness and thrush, which may extend into the trachea and bronchi: fungal infection in the bowel results in pruritis ani. (b) overgrowth of resistant coliform organisms, such as *Pseudomonas* and *Proteus* may cause diarrhoea. (c) overgrowth of resistant *Staphylococci* can cause a film-forming enteritis with dehydration. This complication is rare except after abdominal surgery, particularly gastrectomy. When this occurs, therapy with Biotet B should be discontinued immediately and the use of other therapeutic measures considered. 3. Oxytetracycline may form a stable calcium complex in any bone forming tissues with no serious harmful effect reported so far in humans. However, use of this antibiotic during tooth development (last trimester of pregnancy, neonatal period and early childhood) may cause discolouration of the teeth (yellowish-grey-brownish). This effect occasionally observed in usual short treatment courses.

Contra-indications:

Biotet B is contra-indicated in individuals who have shown hypersensitivity to oxytetracycline. Reactions due to allergy or individual idiosyncrasy, including phototoxicity, are extremely rare. If adverse reactions occur, medication should be discontinued. WARNING: If renal impairment exists, even usual oral doses may lead to excessive systemic accumulation of the drug and possible toxicity. Under these conditions, lower than usual doses are indicated and if therapy is prolonged, tetracycline serum level determinations may be advised.

Dose:

Adults: for infections of average severity, recommended total daily dosage is 1 g in divided doses. In severe infections, 2-3 g daily in divided doses. Children: 20-55 mg per kg to body mass daily, in divided doses. To aid the absorption of the drug, it should be given at least one hour before, or two hours after meals.

Pack and presentation:

Capsule, coloured, opaque blue and green, in containers of 100.

BIOTET B caplets-oxytetracycline with built-in compensation

The logo consists of the word "CAPS" in a bold, sans-serif font, enclosed within a thick, black, rounded rectangular border.

A PHARMACEUTICAL HALLMARK FOR
QUALITY, EFFICACY AND ECONOMY