



Ethics - Integrity First

When You Doubt  
Either Respiratory Infection is  
Bacterial / Viral OR Complicated.



Spectrum  
Powder

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# Spectrum

Powder

Composition: Each 1000 gm contains:

Doxycycline HCl.....200gm	Tylosin tartrate.....100gm
Colistin sulphate.....500 MIU	Amantadine HCl.....40gm



**Doxycycline:**

Doxycycline Tetracyclines exert, independently of their anti-microbial activity anti-collagenolytic effects by inhibiting activities of human interstitial collagenases and by preventing the oxidative activation of latent pro-collagenases.

**Tylosin Tartrate**

Antibiotic produced by the cultures of streptomyces fradiae. It is effective against gram positive bacteria generally and especially susceptible to members of macrolide group and drug of choice for mycoplasma. Interferes with bacterial protein synthesis by binding to the 50S subunit.

**Colistin Sulphate**

The spectrum of action of colistin comprises exclusively Gram-negative bacteria:

Escherichia coli and salmonella. Colistin sulphate is a polypeptide antibiotic (cyclopeptide) with bactericidal action. It acts as a surfactant (it is a cationic-type detergent) with amphipathic properties (containing lipophilic and lipophobic remains). It penetrates the bacterial cell membrane, provoking changes in its permeability as a result of its interaction with the phospholipid component. This all translates into an alteration of the osmotic barrier, and the bacteria become susceptible to the chemical environment, thus facilitating its definitive lysis.

**Amantadine**

A white or almost white crystalline powder, freely soluble in water which acts as an antiviral drug. It inhibits the replication of virus by interfering the uncoating of virus inside the cell. Amantadine acts as an M2 inhibitor inside the virus & blocks the ionic channel (which spans the viral membrane) formed by the M2 protein. Virus enters its host cell by receptor mediated endocytosis. There after acidification of endocytic vesicle is required for the dissociation of M1 protein from the ribonucleo protein complex. Only then the ribonucleoprotein particles are imported to the nucleus via the nuclear pores. The hydrogen ions needed for acidification pass through the M2 channel. Amantadine blocks this channel so viral multiplication is stopped.

**Indications:**

For the effective control and treatment of bacterial infections and infections complicated with virus such as CRD, CCRD, E.coli, Avian influenza, Coryza and HPS.

**Dosage:**

1 gm per 02 liter of drinking water for 03-05 days.

**With drawal period:** Meat: 72 hours. Eggs: 72 hours.

**Precautions:** Keep out of the reach of children. Keep in cool and dry place. Keep away from direct sunlight.



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