

# DR. DENTIST-F

## Each 5 gm contains:

### Composition:

Triclosan, Silica, Special Flavour.

### Indications :

Twice Brushing with Dr. Dentist, gently removes tough stain, long lasting mint flavour keeps mouth clean & fresh, no harsh abrasives or bleach.

### Description:

Triclosan is a broad-spectrum antibacterial agent that inhibits bacterial fatty acid synthesis at the enoyl-acyl carrier protein reductase (FabI) step. Resistance to triclosan in *Escherichia coli* is acquired through a missense mutation in the *fabI* gene that leads to the expression of FabI[G93V]. The specific activity and substrate affinities of FabI[G93V] are similar to FabI. Two different binding assays establish that triclosan dramatically increases the affinity of FabI for NAD<sup>+</sup>. In contrast, triclosan does not increase the binding of NAD<sup>+</sup> to FabI[G93V]. The x-ray crystal structure of the FabI-NAD<sup>+</sup>-triclosan complex confirms that hydrogen bonds and hydrophobic interactions between triclosan and both the protein and the NAD<sup>+</sup> cofactor contribute to the formation of a stable ternary complex, with the drug binding at the enoyl substrate site. These data show that the formation of a noncovalent "bi-substrate" complex accounts for the effectiveness of triclosan as a FabI inhibitor and illustrates that mutations in the FabI active site that interfere with the formation of a stable FabI-NAD<sup>+</sup>-triclosan ternary complex acquire resistance to the drug.

**Dosage :** As per the physician's advice or Dentist Doctor's advices.

**Presentations :** 100 gm

MRP	Retailer	Stockist
50.00	40.00	36.00