



API & BULK DRUG

Mupirocin

Mupirocin also known as Pseudomonic acid A, Mupirocin is a potent antibiotic against both Gram(+) bacteria (Staphylococcus aureus, Streptococcus pyogenes, Streptococcus pneumoniae, Klebsiella pneumoniae) and some Gram(-) bacteria (Haemophilus influenzae, Neisseria gonorrhoeae)

The mode of action is believed to involve the inhibition of isoleucine-tRNA synthase enzyme that affects the peptide synthesis in bacteria.

Product	Pharmacopeia	Therapeutic Segment
Mupirocin	IP/USP/BP	Topical Antibiotic

Tacrolimus

Tacrolimus API is isolated from streptomyces tsukubaensis. Tacrolimus is an immunosuppressive drug that is mainly used for allogeneic organ transplants to reduce the activity of the patient's immune system and so lower the risk of organ rejection.

Tacrolimus ointment uses in topical preparation in the treatment of severe atopic dermatitis, severe refractory uveitis after bone marrow transplant, and the skin condition vitiligo and eczema. It was discovered in 1984 from the fermentation broth of a Japanese soil sample that contained the bacteria streptomyces tsukubaensis. Tacrolimus is chemically known as a macrolide.

Product	Pharmacopeia	Therapeutic Segment
Tacrolimus	IP/USP	Immunosuppressant

PROBIOTIC FOR
Human Healthcare / Food & Beverages Healthcare

List of Strain

- ✓ Bacillus coagulans
- ✓ Bacillus subtilis
- ✓ Enterococcus faecium
- ✓ Lactobacillus acidophilus
- ✓ Lactobacillus casei
- ✓ Bacillus clausii
- ✓ Lactobacillus helveticus
- ✓ Lactobacillus rhamnosus
- ✓ Saccharomyces boulardii
- ✓ Streptococcus faecalis
- ✓ Saccharomyces cerevisiae

PROBIOTIC FOR
Animal Healthcare

List of Strain

- ✓ Bacillus amyloliquifaciens
- ✓ Bacillus coagulans
- ✓ Bacillus licheniformis
- ✓ Bacillus polymyxa
- ✓ Bacillus pumilus
- ✓ Bacillus megaterium
- ✓ Bacillus subtilis
- ✓ Enterococcus faecium
- ✓ Lactobacillus acidophilus
- ✓ Saccharomyces boulardii
- ✓ Streptococcus faecalis
- ✓ Saccharomyces cerevisiae

PROBIOTIC FOR **Aquaculture Healthcare**

List of Strain

- ✓ *Bacillus amyloliquefaciens*
- ✓ *Bacillus coagulans*
- ✓ *Bacillus licheniformis*
- ✓ *Bacillus polymyxa*
- ✓ *Bacillus pumilus*
- ✓ *Bacillus megaterium*
- ✓ *Rhodopseudomonas palustris*
- ✓ *Bacillus subtilis*
- ✓ *Enterococcus faecium*
- ✓ *Lactobacillus acidophilus*
- ✓ *Saccharomyces cerevisiae*
- ✓ *Paracoccus Pantatrophus*
- ✓ *Saccharomyces cerevisiae*