

A wonderful Bio-control agent of 21st Century

Bio-Abhijat

Pseudomonas fluorescens

(Spore Count (CFU) — 2×10^6 /gm)

Pseudomonas fluorescens controls root & stem rots caused by **Schlerotina** and **Rhizoctonia**, wilting caused by **Fusarium**, **Erwinia**, damping off caused by **Pythium**, blights / leaf spots caused by **Alternaria**, **Ascochyta**, **Cercospora**, **Macrophomina**, **Myrothecium** & **Ramularia**, downy mildew, powdery mildew and Fungal diseases. When applied in the soil, the bacteria move towards the plant roots and grow profusely over the root surface. It then enters the vascular streams,

reach the leaves and act as a systemic biocontrol agent against diseases. The bacteria produces antibiotics. Once it grows over the root surface, it acts as a shield against the invading plant pathogens. Further, it secretes several plant growth substances, and these gibberelin - like compounds contribute to vigorous growth of the plant. *Pseudomonas* also helps in remediation of soil from harmful effects of heavy metals & herbicides.

Advantages :

- Protects crops from soil borne diseases.
- Protects crops from diseases throughout the crop period.
- Do not leave harmful residues.
- It is target specific and do not destroy beneficial organisms.
- Environmental friendly & have no adverse effect on soil or plants or humans or animals.

Dosage & Direction :

1. **Seed or Seedling root treatment** : Mix Bio-Abhijat at the rate 20 gms in 1 Ltr. of water. Soak the seeds or root of seedlings for 30 minutes, before sowing or planting.
2. **Soil Application** : Mix 2 Kgs of Bio-Abhijat with required quantity (300 Kg/Acre) of organic manure or Farm Yard Manure (FYM) or vermicompost for covering one Acre area. After mixing leave the mix in a heap at a covered, dry and cool place for 24 hours and then apply in the soil. This soil application can be done 3 days before or within 10 to 15 days after sowing or planting.
3. **Foliar application** : Mix Bio-Abhijat at the rate 10 gms in 1 Ltr. of water, with the required quantity of water for 1 Acre or mix 1 Kg in 200 Ltr. of water and spray evenly on the foliage. Also drench the soil near the root zone of the plant. The first spray can be done between 30 to 45 days after sowing or planting. The spray can be repeated once 20 to 30 days depending upon the persistence of the disease.

Dosage :

Seed application :
10 gm / kg seed.

Seedling application :
20 gm / l water

Soil application :
2 kg / Acre with 300 kg
FYM or Compost

Foliar application :
10 gm / l water

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BIDENERGY PVT LTD
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An ISO 9001:2008 Company
Formerly known as
SHAKTI BIOTECH

Junaid Manzil, 2nd Floor,
7B, Ahirpukur Road, Kolkata - 700 019
Ph : +91 33 2287 2244 / 2400
E : support@shaktibiotech.in
W : www.shaktibiotech.in

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