



IPL Biologicals Ltd India

Introduction

- ❖ **IPL Biologicals Limited is a 100% privately owned company. headquartered at New Delhi, Factory at Haridwar India. IPL is focused on naturally occurring microorganism based Agri inputs such as bio pesticides, bio fungicides and bio fertilizers for improving soil health, crop yield & quality while managing crop resistance and residue.**
- ❖ **IPL has developed its products through its proprietary discovery and development process. IPL is offering its effective products for managing soil borne and foliar pests and diseases, plant nutrition & health, and soil conditioning.**

Core Competencies

01 – Identifying the most effective strains and enhancing their virulence manifold .

02 – Production of high CFU, zero contamination and long shelf life products in various formulations (liquid, powder, granules and tablets)



05- Customising solutions for crop-specific solutions from seeds, nutrition, disease and pest control.

04-High efficacy products in wide and unfavourable conditions of humidity, temperature, soil pH etc

03 – High Shelf life (upto 3 years) even in unfavourable storage conditions

Products & Solutions



Nutrient Management (Bio-fertilizers)

- *Nitrogen Fixer :*
Azotobacter, Acetobacter, Azospirillum, Rhizobium
- *Phosphate solubilizer*
- *Potash mobilizer*
- *Zinc solubilizer*
- *Bio NPK*
- *Sulphur & Iron solubilizer*
- *VAM*



Disease Management (Bio-fungicides)

- *Trichoderma viride*
- *Trichoderma harzianum*
- *Bacillus subtilis*
- *Ampelomyces quisquallis*
- *Pseudomonas fluorescens*



Insect-Pest Management (Bio-insecticides)

- *Beauverria bassiana*
- *Metarhizium anisopliae*
- *Verticillium lecanii*
- *Bacillus thuringiensis*
- *Hirsutella thompsonii*
- *Paecilomyces lilacinus*
- *Pochonia chlamydosporia*



Consortiums (Total Crop Management)

- *Shield - Disease Control*
- *Pestguard - Pest Control*
- *Nutrisol Macro - Macro Nutrient Solubilizer*
- *Nutrisol Micro - Micro Nutrient Solubilizer*

Why IPL Products ?

Microbial Innovation for A Better World



State of the art Technology and Innovation Centre (TIC)



50+ registered products offering holistic solution



Comprehensive trial program to ensure effective application



Integrated solution to the farming problem (Sowing to harvesting)



World class Contamination Controlled Manufacturing Plant



Trust of 1.2+ Million farmers



High CFU, Longer shelf life, High efficacy Products



Global expansion through local distribution partners

Nematofree Plus (2*10⁹)

Formulation Available : Powder / Liquid

About Product

NEMATOFREE+ is a highly effective microbial nematicide. It is useful even under different varied conditions and crops. Effective against nematode (*Meloidogyne* spp.), Reniform nematode (*Rotylenchulus* spp.) Citrus nematode, *Radopholus* spp.

BENEFITS

- Effective against nematode (*Meloidogyne* spp.), Reniform nematode (*Rotylenchulus* spp.) Citrus nematode, *Radopholus* spp.
- Protect plants from nematode and fungal diseases through induced resistance or production of antibiotic secondary metabolites.

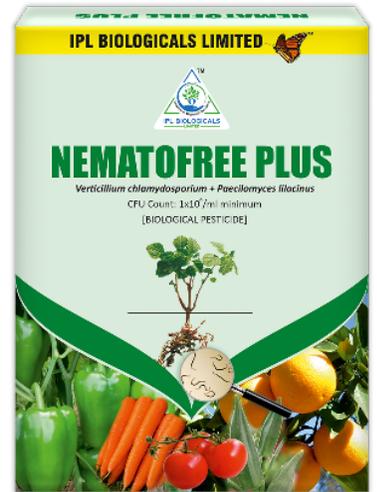
RECOMMENDED CROPS

- Wheat, Paddy, Citrus, Banana, Papaya, Potato, Cucurbits, Tomato, Tea, Coffee, Black pepper, Okra Pomegranate, Tomato, Brinjal, & Carrot crop.

DOSAGE

- 2.5 L / 5 kg per HA

Note :- For trial data and reports , Please contact us.



Nematofree Plus (2*10⁹)

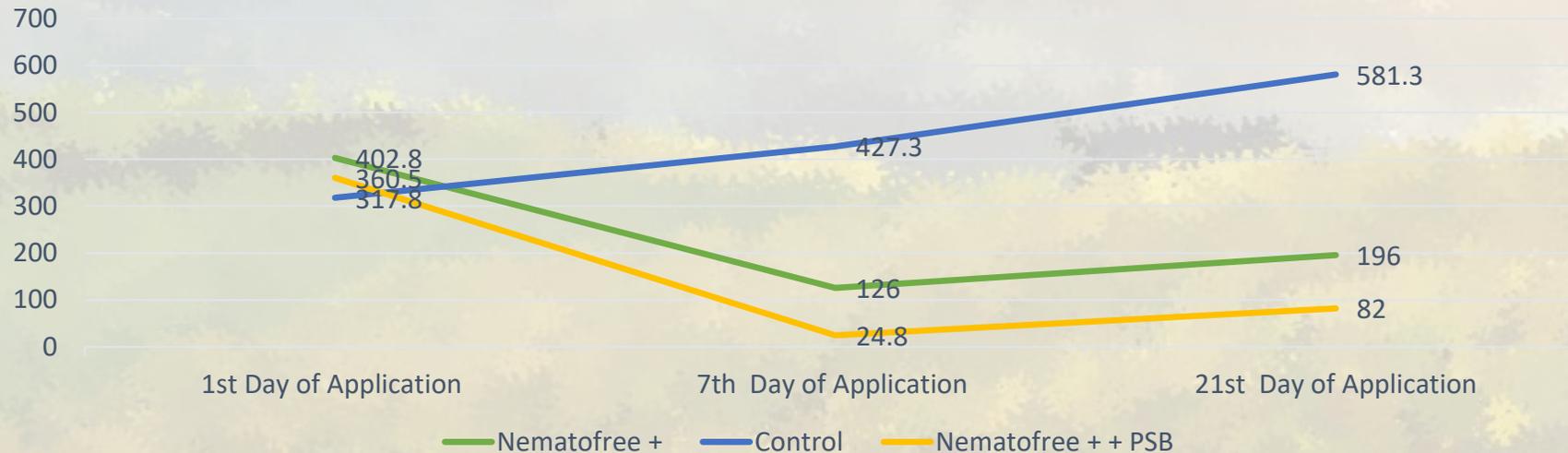
Formulation Available : Powder / Liquid

Sample Case : Client based at Spain

The efficacy of Nematofree+ was tested against Meloidogyne spp. on tomato plants on field conditions. The trial consists of 5 theses included untreated control, three different strategies of Nematofree+ and a reference thesis.



Evolution of the population of Meloidogyne spp. in soil



- A sharp decrease in the population of Meloidogyne can be seen when PSB & Nematofree +
- Nematofree+ with previous application of PSB had an efficacy of 94.2% compared to the control.
- Nematofree+ efficacy was 60% compared to the control 7 days after the first application.

Pestguard (2*10⁹)

Formulation Available : Liquid

About Product :

PESTGUARD, a consortium of naturally occurring entomopathogenic fungi, formulated as liquid, and is highly effective for the control of insect and pests like termites, larvae, white grub, root grub. Highly active on Lepidopterous Caterpillars including Helicoverpa, Spodoptera, Borers, and Hairy caterpillars.

BENEFITS

- Control/infect egg, larva, pupal, nymphal and adult stages of white grub, beetle, caterpillars, semiloopers, loopers, cutworms, termites and sucking pests like pyrilla, mealybugs etc.
- Highly active on Lepidopterous Caterpillars including Helicoverpa, Spodoptera, Borers, and Hairy caterpillars.

RECOMMENDED CROPS

- Suitable for all types of crops, Oil Seeds Crops, Pulses, Cereals, Fruit & Vegetable Crops, Spices Including Medicinal and Aromatic Crops, Tea & Coffee.

DOSAGE

- 2.5 L Per HA

Note :- For trial data and reports , Please contact us.

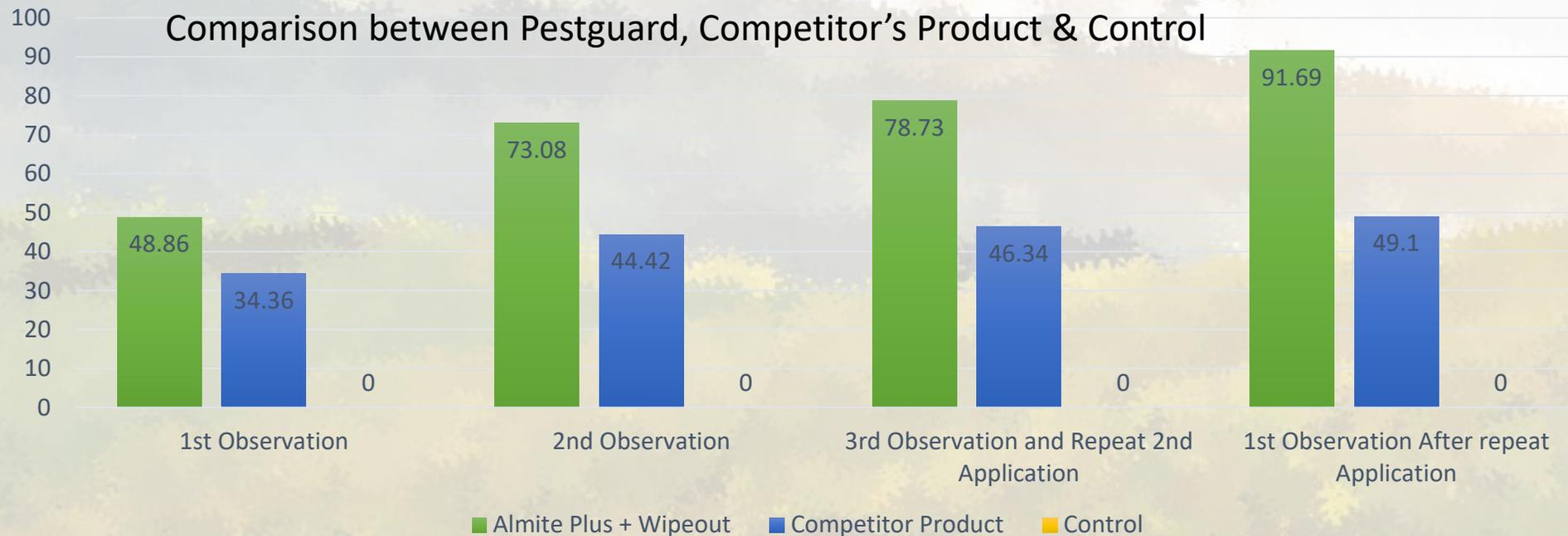


Pestguard (2*10⁹)

Formulation Available : Liquid

Sample Case : Client based at Spain

An evaluation was carried out at the time of harvest, determining the incidence and severity of pests like Aphids, Tuta absoluta, White flies, Thrips on Pepper.



- Progressive reduction of the pest.
- Insects attack was drastically reduced in the first leaf, in the second it is even smaller and disappears in the others.
- The treatment was effective even 15 days later, acting on females and larval stages.

Shield (2*10⁹)

Formulation Available : Liquid

About Product :

SHIELD, a consortium of antagonistic fungi and bacteria, provides protection to the plant from soil-borne diseases. These microbes kill the pathogens, control re-infestation, reduce the load of soil borne disease and also help in increasing induced systemic resistance against the pathogens.

BENEFITS

- It's a natural bio-fungicide, highly effective in controlling wide range of soil borne and foliar diseases
- Improvement in water and mineral uptake.
- Creates tolerance against soil borne diseases and drought.
- Suppresses soil and seed borne diseases caused by pathogens and promote seed germination and plant growth.

RECOMMENDED CROPS

- Suitable for all types of crops, Oil Seeds Crops, Pulses, Cereals, Fruit & Vegetable Crops, Spices Including Medicinal and Aromatic Crops, Tea & Coffee.

DOSAGE

- 2.5 LTR/HA

Note :- For trial data and reports , Please contact us.



Shield (2*10⁹)

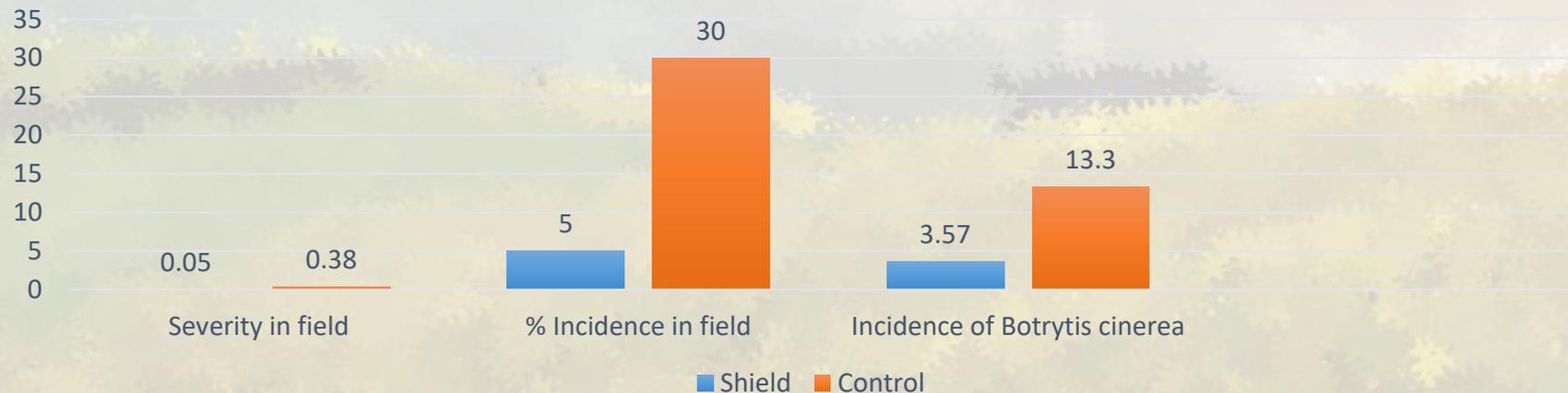
Formulation Available : Liquid

Sample Case : Client based at Chile

An evaluation was carried out at the time of harvest, determining the incidence and severity of rot by *Botrytis cinerea* in 10 bunches of each repetition for each treatment in the field and at the same time 40 grapes were harvested of each repetition per treatment, to carry out humid chambers and determine the potential percentage of incidence of *Botrytis cinerea* causing rotting in grapes.



Comparison IPL Products with Control on Grapes



- Shield applications from bunch closure, effective in controlling *Botrytis cinerea* in Table grape cv. Thompson Seedless, decreasing both the percentage of incidence and the severity of the damage caused by gray rot.
- They did not cause phytotoxicity symptoms in the plants, nor in bunches.

Thank you

