

BioBoost NPK

Contains live bacteria and spores:

Bacteria: Azospirillum brasilense; Azobacter chroococcum; Bacillus amyloliquefaciens; & Pseudomonas fluorescens 1x10⁹ CFU/mL (1x 10¹² CFU/L)





Naturally occurring bacteria that can deliver your plants free Nitrogen and unlock the Phosphorus and Potassium naturally occurring in all soils!

BioBoost NPK contains four strains of plant growth promoting organisms that are capable of capturing atmospheric nitrogen and unlocking bound phosphorus in your soil. Azospirillum brasilense and Azotobacter chroococcum are both free living bacteria that can harvest nitrogen from the atmosphere and deposit it (as ammonium nitrogen) into the soil - giving your plants a free Nitrogen source! Bacillus amyloliquefaciens can solubilise (unlock) inorganic phosphorus already in your soil, making it plant-available for uptake! Pseudomonas fluorescens is a powerful plant growth promoter when, in conjunction with the other bacteria in this blend, can support Potassium solubilisation. NPK provided naturally!

Benefits:



NASAA Certified Organic Input



The ultimate biological product for plant growth promotion



Access free atmospheric nitrogen



Phosphate release and uptake by plants

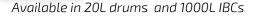


Potassium release and uptake by plants



Aids plants to become are more tolerant to biotic and abiotic stresses





NO witholding period







Application Rate

Foliar Spray 8-10L /ha
For best results apply with sticker

Fetigation 15L/ha

Drench 5% of tank volume

Application to plant: to be applied to plant surfaces to ensure coverage of both top and bottom of leaf surface and stems to provide an inoculating dose of beneficial bacteria to the soil plant. Ensure full and even coverage of the plant surface. Bacteria will not survive in direct UV sunlight, so it is best to apply after sunset. This will ensure 8 – 12 hours of colonisation before sun rise. Best temperatures for survival is 15 - 35 °C.

Application to soil: to be applied to soil surface to provide an inoculating dose of beneficial bacteria to the soil profile. Ensure full and even coverage of soil surface. Bacteria will not survive in UV sunlight and must be watered or cultivated in to move bacteria away from soil surface. Target applications to plant rhizosphere. Best soil temperature for survival is 12 - 35 °C.

Irrigation: For several days after application, care should be taken to not wash bacteria from plant surfaces and soil profile (avoid flood irrigation and applications 1-2 days prior to a weather event).

Timing: First application at or prior to transplanting with further applications every 2-3 weeks (small crops) or 4-8 weeks (all other crops). In ideal conditions, this product can survive on the leaf surface for up to 8 weeks and in the soil profile for up to 2 years.

Supplemental food: Soils with an organic matter content less than 2.5% may require the addition of a food supplement for best results. The bacteria in BioBoost NPK prefer a nutrition source with sugars, high nitrogen and heavy doses of trace elements. We recommend molasses + fish emulsion + humate, humic acids or fulvic acids.

Colonisation: colonisation is quite rapid and can occur in as little as several hours under suitable conditions, though is generally competed in 2 – 3 days.

Directions for use: Ensure compliance with your quality assurance code of practice regarding the use of microbial products before use. It is recommended that accurate written record of the details of each spray application is kept.

General Information: This is a biological product. Colour, smell and consistency may vary between batches

Mixing: Prior to opening, shake or agitate the container vigorously, then add the required quantity of BioBoost NPK to water in the tank while stirring or with agitators in motion. Maintain agitation until spraying is complete.

Cleaning Up: Equipment should be thoroughly cleaned by rinsing with water several times. Sanitise tank before and after use.

Compatibility: BioBoost NPK has been tested for compatibility with various other conventional products including fungicides, insecticides, herbicides and fertilisers. However, as formulations of other manufacturers' products are beyond the control of Novum Lifesciences, all mixtures should be tested prior to mixing commercial quantities. Changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays and Novum Lifesciences cannot be responsible for the behaviour of such mixtures.

Storage and Handling: Read safety directions and SDS before use. While handling and applying microbial products personal protective equipment should be worn. Store the original container in a cool, dry place away from direct sunlight and below 30°C. Use as soon as possible after opening but if this cannot be achieved then close immediately after use and use within 3 months. Contamination of contents may occur at any time after opening and Novum Lifesciences takes no responsibility for opened product not used immediately.

Shelf Life: The unopened shelf life of this product is 12 months from Date of Manufacture. Please refer to product Certificate of Analysis for batch details. The shelf-life period relates to the time that the product remains above the guaranteed concentration of 1 x 109 CFU/mL. If the product is outside the shelf life, the product may still have viable live organisms and spores (and metabolites), but will no longer be guaranteed to be at the original concentration.

Terms and Conditions of Sale:

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