



# Biopak

## Biopak provides a healthy root environment for your crop

### What is Biopak?

Biopak is a natural product based on carefully selected micro-organisms and growth promoters. With ingredients such as amino acids, vitamins, sugars and soil bacteria, Biopak promotes a healthy root environment and creates the optimal growth conditions for your crop. This makes Biopak ideally suited for restoring a soil environment that has been disrupted, but it is also very suitable for stimulating the root environment of your crop.

### How does PHC Biopak work?

Good crop care begins with the soil. Every soil naturally contains many micro-organisms in the form of bacteria and fungi. In a biologically healthy soil, useful bacteria and fungi predominate over pathogenic organisms. However this natural balance can be entirely unbalanced, for example through the frequent use of chemicals or fertiliser, and through monocultures.

### Bacteria protect the plant:

You can restore the natural balance in the soil environment with the aid of the active micro-organisms and growth promoters in Biopak. Biopak contains various kinds of bacteria for that purpose. These bacteria protect the plant. They compete for space and food with pathogenic organisms and in doing so lower the infection pressure.

Biopak also contains nitrogen fixing and phosphate dissolving bacteria. These bacteria provide the plant with nitrates and phosphates. Another type of bacteria in Biopak is a *Bacillus subtilis* type, which protects the plant against pathogenic organisms.

Finally, Biopak is especially suitable to stimulate the root environment. Administering Biopak immediately after (steam) sterilisation rapidly produces a great diversity of micro-organisms that stimulate the root growth of your crop.

### Using Biopak

Biopak is broadly applicable, for both vegetables and flowers in greenhouses and outside, in soil or on a substrate. Biopak can be used throughout the year (mix with irrigation water). Biopak can be used along with most common agricultural chemicals. Consult DeruNed for free advice on dosage where agricultural chemicals are in frequent use. However Biopak should not be combined with the fertiliser.

First mix Biopak with a small quantity of (warm) water, and then add the rest of the water to the mix. The solution may not be combined with the fertiliser in the dosage tank, but can be given along with measured doses of EC. The Biopak solution should be used within 12 hours of adding the water.

**Start dose:** 2 kg. per ha.

Where initial growth is poor, or for sensitive crops: optionally 1 kg. per ha. after one week.

**Maintenance dose:** 1 kg. per ha. repeat every four weeks. The dosage depends, among other factors, on crop sensitivity and infection pressure.

An extra dose may be given where there is a higher infection pressure.

It is not possible to give an overdose of Biopak.

Store Biopak in a cool, dry and dark place. Opened packets of Biopak can only be stored for a few days. Sealed and undamaged packets can be kept for at least one year, if they are stored in a cool, dark and dry place.