



# Biomex

## Soil applied growth stimulant

**Two types of Biomex are available: Biomex SA and Biomex P**

**Biomex SA** contains a liquid blend of 4 species of Trichoderma (naturally occurring soil-borne fungus):

- Trichoderma harzianum
- Trichoderma koningii
- Trichoderma polysporum
- Trichoderma viride.

**Biomex P** contains a powdered blend of 7 active strains of one species, Trichoderma harzianum (naturally occurring soil-borne fungus).

When Biomex is applied to the soil as either a liquid spray (Biomex SA) or a powder (Biomex P), the Trichoderma spores germinate and rapidly multiply. As the mycelium spreads through the soil it colonises the roots of crops. This colonisation of the roots stimulates the rhizosphere and produces growth factors; enhancing crop emergence and vigour leading to an increase in yield.

The Trichoderma spores contained in Biomex multiply faster than pathogenic fungi and therefore out-compete some plant pathogens, such as Rhizoctonia, Pythium, Sclerotinia and Fusarium.

Although Biomex is not fungicidal, this competition with other soil borne organisms can reduce the pathogens ability to damage crops, decreasing the incidence and severity of soil-borne disease.

Replicated trials undertaken at Stockbridge Technology centre in Yorkshire showed dramatic improvements in emergence in potato plants treated with Biomex compared to untreated plants. Untreated plants suffered a high percentage of stem canker infection compared to treated plants where the Trichoderma spores played a large part in blocking the high levels of Rhizoctonia present in the soil. This physical blocking meant that treated plants were largely free of Rhizoctonia infection and hence emerged more quickly and vigorously than untreated plants.

### **Benefits of Biomex SA and Biomex P:**

- ✓ Early emergence
- ✓ Increased vigour
- ✓ Increased yield
- ✓ Decreased disease incidence caused by soil-borne pathogens

**Biomex SA and Biomex P are suitable for a wide range of crops and plants including; potatoes, field vegetables, salad crops, and many ornamental plants.**

## Application rates

Crop situation	Product	Rate	Water volume	Timing
Potatoes <i>soil application</i> <i>Tuber application</i>	Biomex P Biomex P	1 kg/ha 1 kg/ha	200 L/ha n/a	Shortly before planting At or before planting, spread on tubers.
Field vegetables	Biomex SA	1 L/ha	200 L/ha	At or around planting
Salad crops	Biomex SA	1 L/ha	200 L/ha	At or around planting
Module drench	Biomex SA	4 ml/m <sup>2</sup>	n/a	Pre-sowing
Compost incorporation	Biomex P	1 g/L compost (1 kg/1000L)	n/a	Pre-sowing/ pre-transplanting

Trichoderma fungus is present as a suspension of spores concentrated to a level of 3 x 10<sup>7</sup>/ml of Biomex SA. The fungus is present as a powdered concentration of spores in Biomex P.

### Unit sizes available:

Biomex SA: 1 litre containers

Biomex P: 0.5 kg and 1 kg packs

**Biomex SA and  
Biomex P are  
approved for use in  
organic systems by  
the Soil Association.**



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