

# Biomex® Plus

Biostimulants & Quality Improvement

## Use

To stimulate the growth of roots, increase plant tolerance to abiotic stress and reduce susceptibility to root attack by pathogens through colonisation of plant roots.

## Crops

Protected edibles, hardy nursery stock, soft fruit and tree fruit.

## Pack Size

1, 5 litres

## Function of Biomex Plus

Biomex Plus is applied as a growing media amendment at planting. The “Biomex” part of the formulation works by colonising the roots of the growing plant with the beneficial bacteria *Bacillus amyloliquefaciens*. The colonies shield the plant roots from pathogenic fungal attack, and secrete compounds in the vicinity of the root hairs that help to increase availability and uptake of nutrients.

The “Plus” part of the formulation supplies plant stimulating phosphite along with potassium and micronutrients chelated in a unique way.

Treated plants are better able to compensate for stress from biotic factors (pathogens) and abiotic factors (e.g. too hot, too cold, too wet, too dry, too much salinity).



## Composition

A water based liquid containing  $2.5 \times 10^{10}$  cfu/g (colony forming units per gram) spores of the strain FZB42 *Bacillus amyloliquefaciens*.

Analysis	w/w	w/v
Phosphate ( $P_2O_5$ )	18.0%	19.3%
Water Soluble	0.0%	0.0%
Phosphite (as $P_2O_5$ )	18.0%	19.3%
Potassium ( $K_2O$ )	16.0%	17.0
Manganese (Mn)	1500 mg/kg	2010 mg/l
Copper (Cu)	3300 mg/kg	5000 ml/l
Zinc (Zn)	8000 mg/kg	10720 mg/l

## ◆ How to use Biomex Plus

Use Biomex Plus as directed below. Apply 2.5-5 ml/l (2.5 l/ha), in 400-1000 l/ha water. Efficacy will be optimised when soil/growing media temperatures exceed 10oC.

Shake the bottle before use. Apply the spray solution within 8 hours of mixing.

Crop	Timing	Rate l/ha	Rate ml/l water	Comments
Modules and Seedling Trays (All crops)	As a root drip		5	Dip or wet module/seedling tray with solution before transplant (or follow guidelines below)
Protected Edibles	At planting, repeat after 3 months	2.5	2.5	Drench at 1 litre of diluted mix per m <sup>2</sup> of growing medium or Apply through fertigation system at the end of a watering
Hardy Nursery Stock	As a root drench		2.5	Drench at 1 litre mix per m <sup>2</sup> of growing medium. Repeat after 2 months
Establishment of Soft Fruit and Tree Fruit	Bare root drench		5	Dip bare roots for 5 minutes before transplant, follow with fertigation application as below
	Soil Drench	2.5	2.5	Drench at 1 litre of diluted mix per m <sup>2</sup> of growing medium/soil, repeat as below
	Fertigation	2.5	2.5	Apply during early active growth following the transplant application. Leave 2-3 months between applications

## ◆ Notes

The formulation is stable for more than three years at 20°C. It should be kept fully sealed and protected from freezing during storage. Do not store and use opened packages in subsequent seasons.