

# Microbe Plus® Citrus

*Microbially active foliar fertiliser for the Citrus Industry*



## Introduction

GrowGreen's range of Microbe Plus® products are a true fusion of biological and conventional NPK fertilisers. They have a comprehensive suite of bacteria and fungi providing beneficial microbes.

Microbe Plus® Citrus is a foliar fertiliser that has been specifically designed for application to citrus trees but can be equally effective with a wide range of horticulture crops.

In the citrus industry foliar fertiliser can improve yields through direct application of nutrients to where they will deliver the fastest response. The efficiency of foliar application can be greatly improved by integrating with microbial cultures, and microbial metabolites.

Microbial metabolites are important constituents of Microbe Plus Citrus. They are major building blocks of plant cells and bio-stimulants which have positive effects on growth, yield and quality, while mitigating potential damage from exogenous stress factors such as heat, frost, salinity and chemicals.

Potassium (K) is one of the most important nutrients in citrus crops. It is needed for enzyme activation, photosynthesis and transportation of photosynthates, and many more physiological functions.

In the commercial Citrus industry, soil K uptake has limitations typically due to cation imbalances in the soil. Foliar K absorption is far more efficient, helping to deliver better yields.

Calcium is a constituent of the cell walls in the form of Calcium pectate.

Calcium "root" uptake is often hindered by poor cation exchange and poor Calcium:Magnesium ratios in the soil, ratios that are important to overall soil structure.

Foliar application of Calcium is a widely accepted practice. Microbe Plus® Citrus contains calcium in organic acid chelated form, which has more effective penetration through the leaf surface allowing calcium to be more readily available to the tree.



Citrus Mn deficiency symptoms



Citrus Zn deficiency symptoms

## Benefits of Microbe Plus® Citrus in foliar application

- Microbe Plus® Citrus delivers a complete blend of macro and micro nutrients
- Absorption of nutrients is enhanced by improved penetration of ions through the leaf cuticle layer via organic acid chelation.
- Improves resistance of the plant to various exogenous stress factors.
- Improves fruit quality, fruit size, colour, and shape
- Rapidly corrects macro and micronutrient deficiencies

## Microbe Plus® Citrus Shelf Life

- 12 months from the manufacturing date
- Microbe Plus® Citrus should be stored at ambient temperature.
- Should be preferably stored away from direct sunlight, but within a well lit area so that the microbial digestion process continues.

## Compatibility & Use

Microbe Plus® Citrus can be mixed and applied with most commonly used pesticides; however, Microbe Plus® Citrus **should not be used with selected herbicides.**

We strongly recommend checking labels for compatibility as well as pre testing in a small area prior to widespread application.

## Optimising results

Use with GrowGreen's Xtend® plant oil adjuvant for optimum results. Xtend® will maximise the result by reducing drift and increasing adherence to the sprayed surface.

Manufactured by  
**GrowGreen Pty Ltd**  
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## Nutrient Analysis (W/V)

		<b>W/V</b>
Nitrogen (N)	as nitrate	7.00%
Phosphorus (P)	as water soluble	0.10%
Potassium (K)	as nitrate	3.75%
	as phosphate	0.10%
	as molasses	0.15%
	Total	4.00%
Calcium (Ca)	as nitrate	4.60%
Magnesium (Mg)	as nitrate	1.10%
Zinc (Zn)	as nitrate	1.80%
Manganese (Mn)	as nitrate	0.60%
Iron (Fe)	as nitrate	0.02%
Boron (Bo)	as sodium borate	0.042%
Molybdenum (Mo)	as sodium molybdate	0.015%
Cobalt (Co)	as sulphate	0.007%

## Application Details

Microbe Plus® Citrus is suitable for use in horticultural crops as a foliar application during the critical growing period, particularly Citrus, Almond, Walnut, Grapes, Apple, Tomato, Potato, Mango, Banana, Kiwi fruit, and many other vegetables.

Crop	Application Rate/Ha	No. of applications
Horticultural crops	4 – 5L	3-4 foliar applications; post flowering and fruit enlargement stage
Broad acre Winter crops	2 – 3L	2 foliar applications (mid tillering and booting – grain filling stage)
Broad acre Summer crops	4 – 5L	2-3 foliar applications; pre flowering, post flowering and grain filling stage
Annual and perennial pasture	3 – 4L	3-4 foliar applications post grazing

**To be diluted in a minimum of 100L of water p/Ha**

*\* We recommend foliar spray to point of run off.*

For information about specific application rates, please contact our technical staff. Alternatively, visit our website or contact us on the number below

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