

SUPERZYME™

Bacillus subtilis
Trichoderma koningii
Trichoderma harzianum
Pseudomonas putida

GENERAL INFORMATION

Superzyme™ contains beneficial bacteria and fungi that enhance soil life. Soil is a living entity occupied by micro flora and fauna. Billions of organisms live in the soil and form dynamic relationships, some antagonistic and other synergistic. A healthy soil is one where all the organisms the plant requires are present and functioning. The use of **Superzyme™** re-introduces these beneficial organisms that plants require to function normally.

Plants grow in optimal conditions when the correct ratio of fungi to bacteria is present, and ratio of predator to prey is present. Using beneficial inoculums such as **Superzyme™** will enable the plant to function at optimal conditions.

ADVANTAGES + BENEFITS

Using **Superzyme™** has shown many rewards:

1. Better seed germination
2. Increased plant survival rates
3. Abundant root proliferation
4. Improved growth and vigour
5. Healthier plants
6. Increased fruit set and accordingly, higher yields of higher quality

A product such as **Superzyme™** may enhance flowering either by shortening the days to flowering or by increasing the number of flowers. This is illustrated on the opposite page whereby strawberry plants were treated with **Superzyme™** and in a period of days, the survival rate of these plants was increased, as were the number of flowers produced by these plants. The untreated block looked vastly different.

Superzyme™ can improve soil structure. The organisms in this product produce humic compounds and help form aggregates in the soil to improve soil porosity.

Superzyme™ can be applied as a foliar spray, seed soak, transplant dip, side dress or through irrigation systems.

When properly applied to the soil, **Superzyme™** will



Guaranteed Analysis:

Bacillus subtilis • *Pseudomonas putida*
Trichoderma koningii • *Trichoderma harzianum*

The total spore count is 2×10^9 active spores per gram of product.

multiply and produce factors which may stimulate plant growth.

Superzyme™ can be used on: Wine grapes, table grapes, deciduous fruits, nuts, citrus, raspberries, cotton, vegetables, asparagus, corn, carrots, onions, garlic, capsicums, potatoes, tomatoes, melons, legumes, sorghum, turf grass, ornamental, horticultural, and nursery plants.

COMPATIBILITY

Superzyme™ may be rendered ineffective in the presence of high rates of Copper. This biological product may be killed if combined with Bactericides, soil fumigants, aqueous ammonia, phosphoric acid, chlorine, or sulphuric acid. If applied with large doses of fertilisers, there is a possibility of salt toxicity to the beneficial organisms.

PLANT + ENVIRONMENTAL SAFETY

Superzyme™ is totally harmless to plants even when recommended rates are exceeded.

Superzyme™ is totally harmless to both humans and wildlife and is environmentally friendly.



APPLICATION GUIDELINES

CROP	TIME OF APPLICATION		RATE OF APPLICATION
APPLES AND PEARS	1st application	At planting	1 kg/ha
	Further applications	Annually when root flush occurs	1 kg/ha
	Foliar applications	As needed	1 kg/ha
AVOCADO	1st application	At planting	1 kg/ha
	Further applications	Annually when root flush occurs	1 kg/ha
BRASSICAS AND LETTUCE	1st application	At planting	1 kg/ha
	Further applications	As needed	1 kg/ha
GRAPES (TABLE, WINE AND DRIED FRUIT)	1st application	At planting	1 kg/ha
	Further applications	Annually when root flush occurs	1 kg/ha
	Foliar applications	As needed	1 kg/ha
KIWIFRUIT	1st application	At planting	1 kg/ha
	Further applications	Annually when root flush occurs	1 kg/ha
	Foliar applications	As needed	1 kg/ha
POTATOES, ONIONS AND CARROTS	1st application	At planting	1 kg/ha
STONE FRUIT AND CHERRIES	1st application	At planting	1 kg/ha
	Further applications	Annually when root flush occurs	1 kg/ha
	Foliar applications	As needed	1 kg/ha
STRAWBERRIES AND ALL BERRIES	1st application	At planting	1 kg/ha
	Foliar applications	As needed	1 kg/ha
TOMATOES AND CAPSICUM FIELD GROWN	1st application	At planting	1 kg/ha
	Foliar applications	As needed	1 kg/ha

For information on application rates and timing for crops not listed on this brochure, please contact your local distributor or visit the RSF website at www.rd2.co.nz.

For all tree crops, it is advisable that applications are done annually in the spring when the root system begins to grow. Row crops such as vegetables require applications at planting for optimum benefits.

IMPORTANCE OF SUPERZYME AND ITS CONTRIBUTION TO AGRICULTURE

Soil organisms contribute a wide range of essential services to the sustainable function of all ecosystems, by acting as the primary driving agents of nutrient cycling, regulating the dynamics of soil organic matter, soil carbon sequestration, modifying soil physical structure and water regimes, enhancing the amount and efficiency of nutrient acquisition by plants/trees and enhancing plant health. These services are not only essential to the functioning of commercial plant and tree production but constitute an important resource for the sustainable management of agricultural systems.



Superzyme transplant dip treated block



Control block (untreated)

Imported and distributed exclusively in New Zealand
By Roots, Shoots & Fruits Ltd • rsf@rd2.co.nz • 09 372 9155

Manufactured by JH Biotech Inc.