

## Technical Brochure

- ✓ Microbial Inoculation
- ✓ Seedling dressing
- ✓ Seedling Inoculation
- ✓ Soil Drenching



## VAM Ultra

**VAM Ultra is a multi-species microbial inoculant, providing the benefit of biological diversity for plant performance and protection.**

VAM Ultra is a unique soil-less in vitro produced mycorrhizal product applicable by subsurface drip irrigation, by mixing with soil media or coating seed and roots at planting. The product is designed to form beneficial Mycorrhizal symbiosis with the addition of large numbers of compatible Trichoderma and Bacillus to stimulate plant health and grow in a wide variety of soils and climates.

### Benefits

- ✓ High quality mycorrhiza based on soil-less production method.
- ✓ Maximum purity of mycorrhizal fungi
- ✓ Cost effective application using drip irrigation.
- ✓ Improves nutrient uptake, growth, and health of plants.
- ✓ Increased yield and resistance to disease
- ✓ 4 high performing Mycorrhizae strains
- ✓ Trichoderma and Bacillus species compatible with Mycorrhizal Fungi

### Typical Analysis

Mycorrhizae	4 strains: 4000 propagules/g
Trichoderma Harzianum	1 species: 1.9 – 5x10e-8 CFU/g
Bacillus Megaterium	1 species: 2.3 – 4.0x10e-9 CFU/g

### Application Rates

- Mix Trichoderma and Bacillus satchels with VAM powder dry.
- Use clean rainwater to mix into loose slurry before adding to application mix. Do not use town water.

Crops	Seed coating	Liquid Injection
Winter and Summer Cereals	125-250g/t	15-50g/ha
Corn, Sunflower	250-500g/t	50-100g/ha
Cotton	500-1000g/t	100-200g/ha
Trees	Root Drench 3-6L/plant	Fertigation /boom spray
Citrus	40g/1000L	100g/ha
Nuts	50g/1000L	100g/ha
Vines	40g/1000L	50-100g/ha
Vegetables	Seedling	Fertigation /boom spray
Pumpkin, Melon, Tomato, Zucchini	500g/m <sup>3</sup> /100,000 seeds	250g/ha
Carrots, lettuce, Onion	1kg/m <sup>3</sup> /250,000 seeds	500g/ha

**Seedling substrate**, adjust the minimum rate from 250g/m<sup>3</sup> (to produce 100,000 seedlings) to 500g/m<sup>3</sup> of substrate (to produce 250,000 seedlings) in line with type of produced seedlings.

**Subsurface/Surface irrigation.** Depending on the number of plants and drippers per hectare, adjust minimum rate from 250g (20,000 plants/ha) to 500g (over 40,000 plants/ha) in line with planting density.

**The product must meet plant roots, so it must be washed into soil surface or incorporated. It is not possible to overdose. Higher dosage rates ensure better establishment of mycorrhizal fungi. As rates are very particular and variable, always seek advice from your Hi-Tech Ag representative.**

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### Crops suitable.

Cereals, vegetables, fruit trees and shrubs, ornamentals, turfs, and greens. For production of seedlings vegetable, herbs, and flowers.

### Not Suitable for

Brassicaceae family, canola, mustard, broccoli, turnip, cabbage, Brussel sprouts, cauliflower. Orchids,

### Storage and shelf-life

Store in the fridge (temperatures less than 8<sup>0</sup>C) beware of freezing product. Keep out of the reach of children.

### Health and safety information

The product contains naturally occurring fungi. The product does not leave toxic residues in the soil. When using the product, do not eat or drink. In case of contact with eyes, wash eyes thoroughly with clean water. If irritation persists, seek medical help. Do not ingest. If accidentally swallowed, drink 0.5 liters of water.

### Packaging

500g Bag (included 250g Mycorrhizal fungi and 2x125g satchels of Trichoderma and Bacillus)

200g Bag (included 100g Mycorrhizal fungi and 2x50g satchels of Trichoderma and Bacillus)

Version Created: 17<sup>st</sup> April 2024