



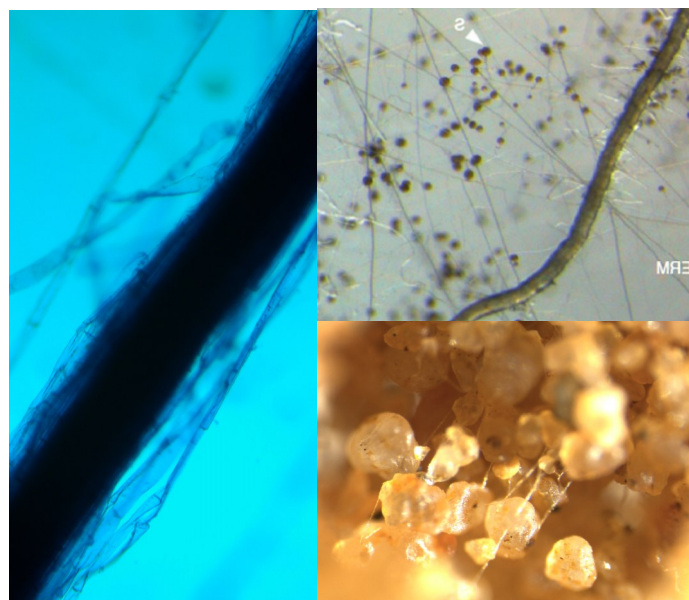
VAM Ultra is a multi-species microbial inoculant, providing the benefit of biological diversity for plant performance and protection

**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 and 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 of subsurface drip irrigation
- Improves nutrient uptake, growth and health of plants
- Increased yield and resistance to disease
- 4 species of mycorrhizal fungi
- Trichoderma and Bacillus that is Mycorrhizal



### Suitable for:

Majority of flowers and herbs, creeping plants, house pot plants, horticultural and agricultural crops

Most ornamental trees and some broad-leaved trees (e.g. maple, green ash, alder, rowan, dogwood)

Suitable for applications in the garden, plant nurseries

Suitable for establishing lawns, turfs and sporting greens

### Not suitable for:

Orchids

The Brassicaceae family (broccoli, turnip, cabbage, Brussels sprouts, mustard, cauliflower etc.)

The Chenopodiaceae, Amaranthaceae, Caryophyllaceae, Cyperaceae, Juncaceae families

TYPICAL ANALYSIS	Prop	500 g/tub
4 species Endomycorrhizae	4,000	1,000,000
2 species Trichoderma	10 <sup>7</sup> /g	125,000,000
2 species Bacillus	10 <sup>8</sup> /g	1,250,000,000

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## APPLICATION RATES

Mix Trichoderma and Bacillus satchels with VAM powder dry before use

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 5-10L/plant	Fertigation /Boom spray
Citrus	20g/1000L	100g/ha
Nuts	40g/1000L	100g/ha
Vines	10g/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 of produced seedlings

**Subsurface irrigation**, depends 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 come into contact with plant roots, it is impossible to overdose – higher dosage ensures better establishment of mycorrhizal fungi.**

As rates are very particular and variable, always seek advice from your Hi-Tech Ag representative.

## 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 litres of water

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Recommended Rates costs compared to Propagules per Hectare or per Plant									
Crops	Plants/ha	Kg/ha	Seed Coating	Prop/plant	Cost/ha	Prop/ha	Liquid Injection	Prop/ha	Cost/ha
Cereals	600,000-900,000	70	125-250g/t	0.357	\$8.75	250000	15-50g/ha	30000	\$10.50
Corn	50,000-70,000	15	250-500g/t	10.00	\$5.25	500000	50-100g/ha	100000	\$5.00
Cotton	150,000-250,000	20	500-1000g/t	5.00	\$7.00	900000	100-200g/ha	200000	\$70.00
Trees	Plants/ha	Kg/ha	Root Drench	Prop/plant	Cost/ha	Prop/ha	Fertigation /Boom Spray		
citrus	450-600		20g/1000L	400	\$63.00	180000	100g/ha	200000	\$70.00
nuts	250-350		40g/1000L	800	\$70.00	200000	100g/ha	200000	\$70.00
vines	1000-2000		10g/1000L	200	\$105.00	200000	50-100g/ha	100000	\$35.00
Vegetables	Plants/ha	Kg/ha	Seedling	Prop/plant	Cost m3	Cost m3	Fertigation /Boom Spray		
Pumkin, Melon, Tomato and Zucchini	2,500-12,000		500g/ m3/ 100,000 seeds	10	\$350.00	1000000	250g/ha	500000	\$175.00
Carrots, lettuce and Onion	30,000-900,000		1kg/ m3/ 250,000 seeds	8	\$700.00	2000000	500g/ha	1000000	\$350.00

VAM Ultra grams /tonne grain					VAM Ultra grams / 1000L						
Cereal	Propagules/ha				Propagules / Plant					Plants/ 1000L	
Kg/ha seeding rate	25,000	50,000	75,000	100,000	Litre / Plant	50	100	200	400	800	
50 kg/ha	250 g/t	500 g/t	750 g/t	1000 g/t	2.5 L	10 g/1000	20 g/1000	40 g/1000	80 g/1000	160 g/1000	400 g/1000
70 kg/ha	179 g/t	357 g/t	536 g/t	714 g/t	5 L	5 g/1000	10 g/1000	20 g/1000	40 g/1000	80 g/1000	200 g/1000
90 kg/ha	139 g/t	278 g/t	417 g/t	556 g/t	10 L	2.5 g/1000	5 g/1000	10 g/1000	20 g/1000	40 g/1000	100 g/1000
110 kg/ha	114 g/t	227 g/t	341 g/t	455 g/t	20 L	1.3 g/1000	2.5 g/1000	5 g/1000	10 g/1000	20 g/1000	50 g/1000
Cost /ha	\$ 8.75	\$ 17.50	\$ 26.25	\$ 35.00	Cost / plant	\$ 0.04	\$ 0.07	\$ 0.14	\$ 0.28	\$ 0.56	

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