



The Gateway to Total Plant  
& Landscape Supply®

# Troforte® M Product Range

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The Troforte® M fertilizer product range is designed to deliver nutrients slowly and in forms which will not damage our soils. Instead, these products will build up your potting media and/or soils.

## Troforte® M products deliver:

1. Natural mineral fertilisers
2. Coated microbes, beneficial soil fungi
3. Slow release fertilisers.

## What is a mineral fertiliser?

Troforte® M products include 62 natural minerals all sourced from Western Australia. These are bio available minerals. They are insoluble and are made slowly available by the action of the beneficial microbes and fungi in Troforte® M products. The nutrients are made available to the plants over 5-6 months. Mineral fertilizers have a low salt index. They have a lower analysis than chemical fertilizers but are more efficient and are environmentally friendly. **Troforte® mineral fertiliser components are alkaline, not acidic.**

## The role of beneficial soil microbes and fungi in Troforte® M fertilisers.

Troforte M® products contain organically coated Australian cultured beneficial soil microbes and beneficial fungi. 99% of soil microbes are good and in the past they have been overlooked by many growers.

## Biology is the secret to effective utilization of nutrients and water.

What do beneficial soil microbes and fungi do? Nitrogen can only be pulled from 10mm away from the root system and Phosphorus can only be pulled from 1mm away from the root system. The Troforte® range of fertilizers contains inoculations of 24 – 30 beneficial microbes. Some of the strains included are Azobacter, Azosprillum, Bacilli, Cellulosic fungi, Myxobacteria, Phosphobacteria, Pseudomonas, Rhizobium, Strep(r)yces, Sacchromyces, Trichoderma, VAM and Yarrowia. They break down natural minerals over 5-6 months and they seek out nutrients, attach them to plant roots and help them penetrate plant roots. They act as a pulling system to pull nutrients in. Root systems increase 100 fold. They can also act as a barrier to pathogens. The Microbes start working within 30minutes of application to the soil.

## The Slow Release component in Troforte® M fertilisers

Slow release Nitrogen fertiliser is an important component in Troforte® M fertilisers. 2/3 of the nitrogen is insoluble and is released slowly without posing a danger to the biology of the soil. This nitrogen source also helps to increase and sustain the population of beneficial soil microbes.

## What results can you can expect from using Troforte® M fertilisers?

1. Increased germination, survival, crop yield, flowers, seed set & pod fill.
2. Help the soil/media function as a living healthy organism.
3. Improves the uptake of nutrients.
4. Reduces synthetic fertiliser inputs.
5. Deals with soil constraints. eg low organic activity, low PH, locked up nutrients.
6. Improved water retention.
7. Improved root systems better able to stand drought conditions.
8. Reduced severity of disease.
9. Aerated healthy soils with a healthy earthworm population.
10. Microbial based fertilisers mean you can use lower NPK formulations, at lower rates.

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## Field Trials

In a trial conducted in February & March 2011 on Petunias, leaf tissue analysis shows that Macracote Coloniser Red and Troforte® M General Purpose outperform the leading brand of imported commercial slow release fertilisers.

Samples:

Macracote® Colonizer Red 8-9 mth : 15+3+9+TE
Leading Brand A : 15+4+10+TE 5-6 mth
Troforte® Gen Purpose 5-6 mth : 14+2+4+TE
Control

Soil analysis

Analyte	Limit of reporting	Units	Colonizer	Leading Brand A	Troforte	Control
N	0.1	%aa	3.4	2.8	4.8	1.9
K	0.01	%ar	5.3	3.5	6.2	4.5
P	0.01	%ar	0.5	0.41	0.56	0.52
Ca	0.01	%ar	1.2	1.4	1.8	1.3
Mg	0.01	%ar	0.38	0.38	0.57	0.43
Na	0.01	%ar	1.5	1.8	2.2	2.0
S	0.01	%ar	0.51	0.48	0.69	0.73
B	1	mg/kg	25	25	34	24
Cu	0.1	mg/kg	28	31	39	32
Fe	1	mg/kg	1150	2000	1300	1170
Mn	1	mg/kg	180	170	300	170
Mo	1	mg/kg	2	3	2	5
Zn	1	mg/kg	170	140	260	170

Leaf analysis

Analyte	Method	Unit	Colonizer	Leading Brand A	Troforte	Control
EC	(1:20)	mS/m	60	100	30	30
pH	(1:20)		6.3	6.2	6.6	7.4
OrgC	(W/B)	%	26.6	27.7	23.0	36.9
P	PRI	mL/g	-7.9	-8.9	-0.7	-6.9
B	(M3)	mg/kg	2.9	5.8	1.3	7.2
Ca	(M3)	mg/kg	>5000	>5000	4700	>5000
Cd	(M3)	mg/kg	0.13	0.08	0.08	0.03
Co	(M3)	mg/kg	0.42	0.55	0.35	0.55
Cu	(M3)	mg/kg	9.5	11	8.5	10
Fe	(M3)	mg/kg	>500	>500	>500	370
K	(M3)	mg/kg	>500	>500	450	>500
Mg	(M3)	mg/kg	750	>1000	630	400
Mn	(M3)	mg/kg	97	120	95	180
Mo	(M3)	mg/kg	0.06	0.35	0.08	0.06
Na	(M3)	mg/kg	440	730	280	200
Ni	(M3)	mg/kg	4.4	5.0	4.2	0.6
P	(M3)	mg/kg	>500	>500	210	>500
S	(M3)	mg/kg	>250	>250	>250	170
Zn	(M3)	mg/kg	37	44	34	100
As	(M3)	mg/kg	<0.1	<0.1	>1.0	0.2
Pb	(M3)	mg/kg	<0.1	<0.1	<0.1	0.8
Se	(M3)	mg/kg	<0.1	<0.1	<0.1	<0.1

For more information visit: [www.langleyfertilizers.com.au](http://www.langleyfertilizers.com.au)

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