eNTiton™

Horticultural crops

eNTiton™ is an advanced foliar spray containing our PiNT™ technology. This optimises nitrogen delivery to plants encouraging better establishment, rooting and growth.

Benefits of eNTiton

- Controlled nitrogen release for sustained nutrition
- Better rooting and establishment
- Better growth habit; shorter, more compact plants
- Increased marketable yield.

Nutrient content of eNTiton

Nutrient	eNTiton Ca		eNTiton K		eNTiton Mg	
	%w/w	g/L	%w/w	g/L	%w/w	g/L
Total nitrogen (N) [of which ureic]	15 [9.5]	202 [128]	15 [13.7]	180 [164]	15 [15]	189 [189]
Calcium (Ca) [Calcium oxide (CaO) equivalent]	7 [9.8]	94 [132]	-	-	-	-
Boron (B)	0.17	2.3	-	-	-	-
Potassium oxide (K_2O)	-	-	7	84	-	-
Water soluble magnesium (Mg) [magnesium oxide (MgO) equivalent]	-	-	-	-	2.5 [4.1]	31 [51]

PiNT™ Advanced nitrogen technology

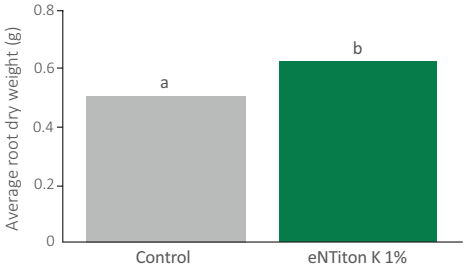
PiNT is a stabilised ureic/cation complex (Ca, K or Mg), providing a controlled release of ammonium which can be converted to nitrate. This managed release maximises nitrogen availability whilst minimising leaching and volatilisation, without the need for urease inhibitors.

Field trial data

eNTiton K increases root biomass

In UK glasshouse trials, lettuce (variety Panisse) seedlings, grown in module trays, were treated with weekly foliar applications of 1% eNTiton K solution.

After two weeks, eNTiton K treated seedlings had significantly greater ($P<0.05$) root biomass compared to control plants.



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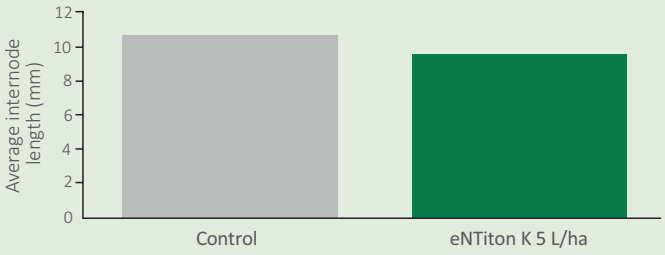
Better growth habit

eNTiton K was applied at a rate of 5 L/ha to protected peppers in a trial carried out in Spain. Applications began two weeks after planting and were carried out every seven days.

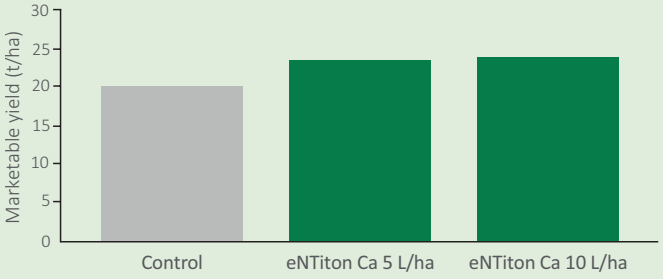
As shown below, eNTiton K application reduced internode length by 7.7% compared to the control. eNTiton K also increased stem diameter (data not shown). This improved, more compact, plant architecture enabled greater resource allocation to fruits instead of vegetative biomass. As a result, eNTiton K treated plants showed a 13.1% increase in fruit number (data not shown).



Increased marketable yield

In strawberry trials (Poland), eNTiton Ca was first applied after the winter dormancy break, again at flowering, with two further applications at 14 day intervals. Two application rates, 5 and 10 L/ha, were used.

The graph below shows 17% and 24% increases in marketable yield when eNTiton Ca was applied at 5 and 10 L/ha, respectively. Both treatments also increased the number and weight of fruit in quality classes 1 and 2 (data not shown).



We have a range of products to suit your needs

Within the eNTiton range we have three variations each with a different nutrient content. This couples the benefits of the PiNT technology with the flexibility of selecting the required nutrient for your application. Please speak to your agronomist to determine the most suitable product within the range.

eNTiton™ Ca

Calcium is a key component of plant cell walls and membranes.

eNTiton™ K

Potassium is a critical element for plant metabolism, carbohydrate transport and enzyme activity.

eNTiton™ Mg

Magnesium is important for efficient photosynthesis and enzyme function.

Directions for use

Apply as a foliar spray in a minimum of 200 L/ha using the application rates in the table below. The product can also be soil applied using drip irrigation; use up to 300 L/ha/campaign divided into 10-30 L/ha applications.

Tank mixing

eNTiton is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing eNTiton Ca with products containing high levels of sulphate or phosphate may cause precipitation. Similarly, mixing eNTiton Mg with products containing high levels of calcium may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.

Crop	Rate	Timing	Frequency
OSR	4-6 L/ha	From 3rd true leaf	1-2 applications, 14-21 days apart
Cereals	4-6 L/ha	From 3 leaves unfolded, GS13	1-2 applications, 14-21 days apart
Soft fruits	5-10 L/ha	From flowering to harvest	Every 15-20 days
Vegetables	5-10 L/ha	From 5th leaf to harvest	Every 15-30 days
Starter crops in modular trays	1% dilution	Establishment	Every 7 days
Greenhouse crops	5-10 L/ha	From 4th leaf or from flowering for fruiting crops	Every 15-20 days
Potatoes	5-10 L/ha	From initial tuber growth	Every 15-30 days

eNTiton™ PiNT™

Find more information on our PiNT technology products at:
www.plantimpact.com e: info@plantimpact.com

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