

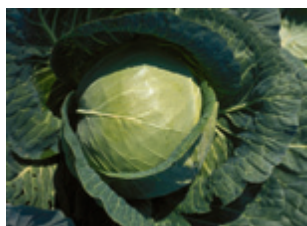


**ENTEC<sup>®</sup>**

## The Nitrogen Technology for Horticultural Crops



- Significantly higher yields
- Improved crop quality  
(uniform calibration, less Nitrate content)



- Safe and constant N-nutrition



- Labour savings by reduced applications
- Reduced Nitrogen leaching



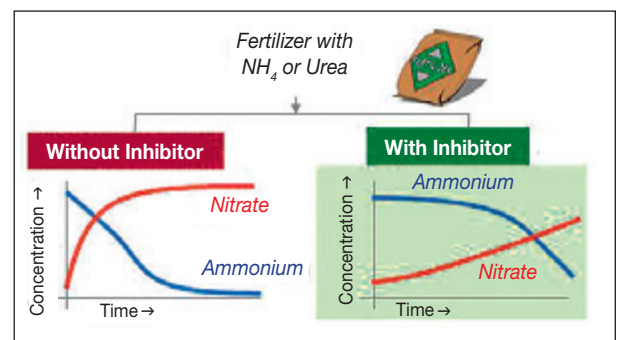
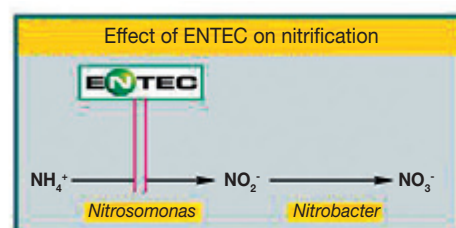
## ENTEC<sup>®</sup> – What is ENTEC<sup>®</sup>



- ⇒ ENTEC<sup>®</sup> is a compound NPK/NP or N-fertilizer treated with the Ammonium stabilizer DMPP
- ⇒ DMPP from long-term BASF research retards the conversion of Ammonium-N into Nitrate-N
- ⇒ ENTEC<sup>®</sup> fertilizer is a unique fertilizer innovation exclusively distributed by COMPO

## ENTEC<sup>®</sup> – How does it work?

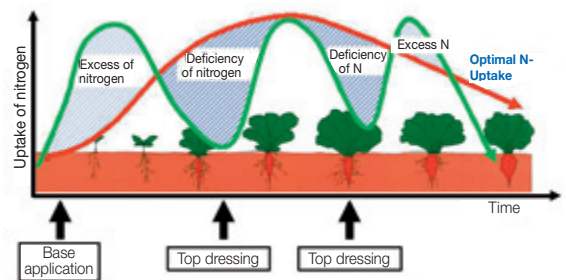
- ⇒ ENTEC<sup>®</sup> delays the transformation from Ammonium ( $\text{NH}_4^+$ ) to Nitrate ( $\text{NO}_3^-$ )
- ⇒ ENTEC<sup>®</sup> ensures a balanced Nitrate and Ammonium nutrition over an extended period up to 10 weeks depending on temperature.
- ⇒ Without ENTEC<sup>®</sup> intensive irrigation or heavy rainfall can often lead to Nitrate leaching
- ⇒ Ammonium is not leachable and therefore prevents any leaching losses



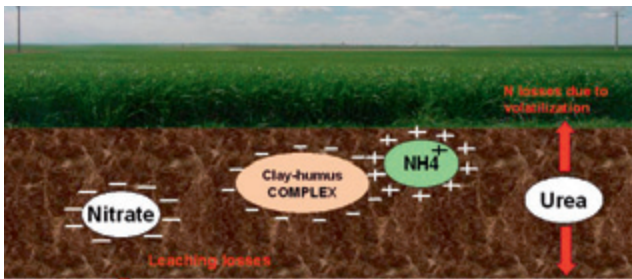


# **N ENTEC<sup>®</sup>** - Less N-leaching and Constant N-Supply

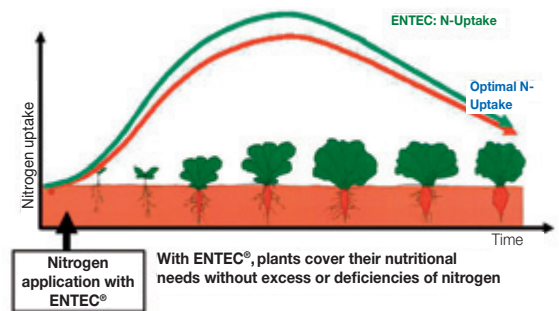
- ⇒ ENTEC<sup>®</sup> effectively reduces Nitrogen leaching due to a higher Ammonium concentration in the soil
- ⇒ ENTEC<sup>®</sup> reduces application frequency
- ⇒ ENTEC<sup>®</sup> avoids excessive N-supply and N-deficiency
- ⇒ Better yield from higher N-efficiency



ENTE<sup>®</sup>: 1 Application

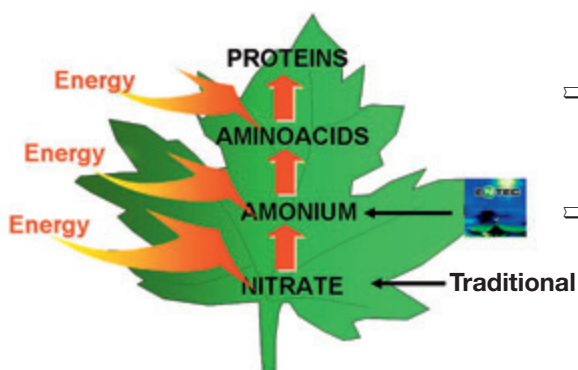


Ammonium is bound to Clay-Humus-Complex in soil



Conventional Fertilizer: 3 Applications

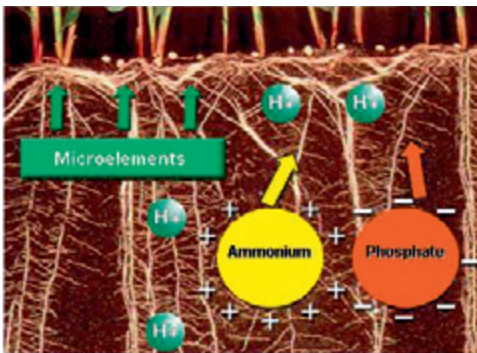
# **N ENTEC<sup>®</sup>** - Ammonium Nutrition



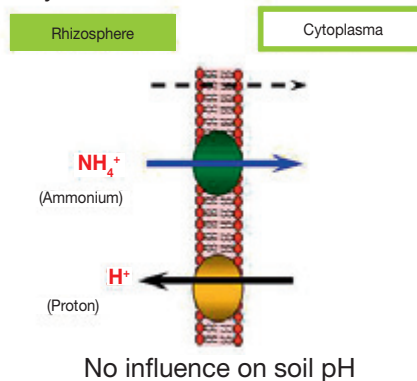
- ⇒ Energy savings by Ammonium N-nutrition (no chemical reduction of Nitrate in the plant)
- ⇒ Better flowering (Ammonium promotes synthesis of Phytohormones and Polyamines)



## ENTEC<sup>®</sup> – The pH-Effect



Temporary micro-acidification of the rhizosphere



- ⇒ Ammonium Nutrition temporarily decreases pH in the rhizosphere
- ⇒ Consequently micro elements and Phosphate uptake by the crop is increased

## ENTEC<sup>®</sup> – The Environmentally Friendly Fertilizer

- ⇒ Ground Water Protection by reducing Nitrate leaching
- ⇒ Reduction of  $N_2O/NO_x$  emissions by reduced denitrification
- ⇒ Healthy Crops by reduced Nitrate contents (e.g. Lettuce, Potatoes)
- ⇒ ENTEC<sup>®</sup> is fully biodegradable in the soil and highly selective only to Nitrosomonas (bacteriostatic and **not** bacteriocide)



 ENTEC<sup>®</sup>



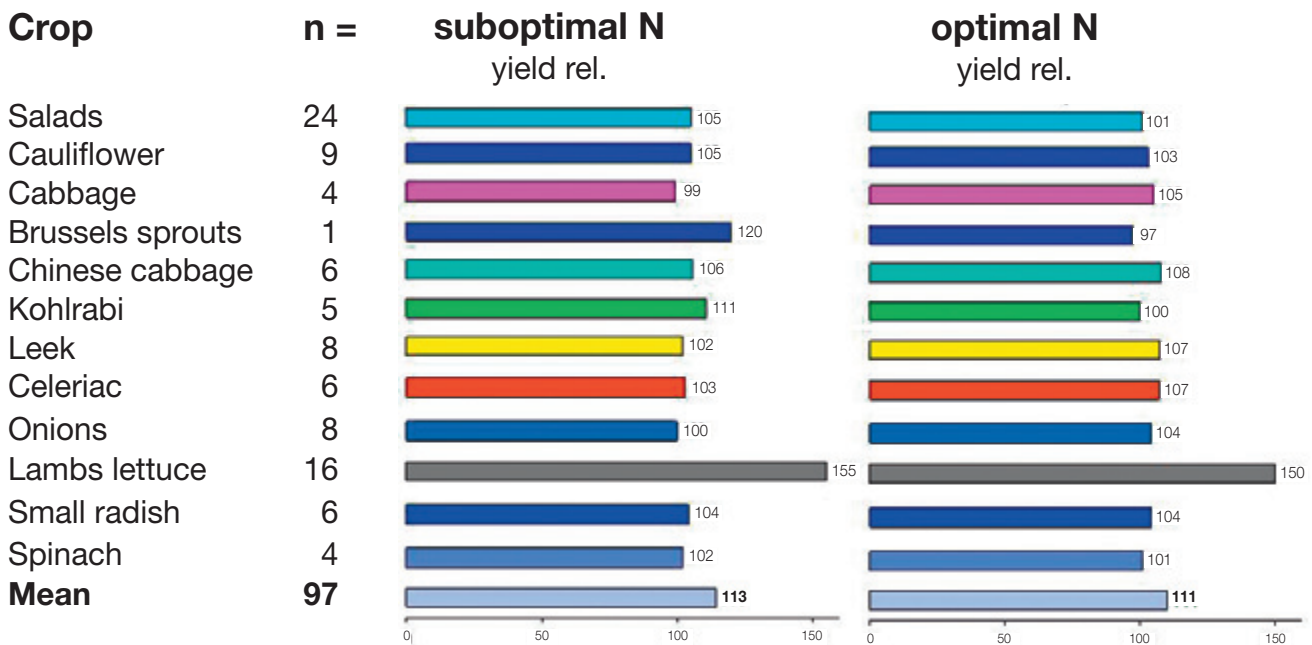
## ENTEC<sup>®</sup> - General Benefits

- ⇒ Maximum Exploitation of yield potential
- ⇒ Better crop quality from improved micro element nutrition
- ⇒ Reduced Nitrate contents in marketable yield (e.g. Potatoes and Lettuce)
- ⇒ Environmentally friendly fertilization by reduced Nitrate leaching
- ⇒ Labour savings through reduction of application frequency



## ENTEC<sup>®</sup> - Trial Results



Effect of ENTEC<sup>®</sup> on yield of vegetables (1998-2002; 100 % = Marketable yield without ENTEC<sup>®</sup>)



- ⇒ 11% more yields on a large number of trials
- ⇒ 13% more yields if N-supply is suboptimal



## ENTE<sup>®</sup>TEC<sup>®</sup> – In Horticultural Crops

Product	Composition	Characteristics	Presentation	Use
ENTE <sup>®</sup> TEC <sup>®</sup> Perfect	14+7+17 (+2MgO+9S+TE) 	NPK compound fertilizer with Potassium Sulphate, Magnesium and micronutrients (without Potassium Chloride) and nitrification inhibitor DMPP reduces N-leaching and increases N-efficiency  Nitrogen Composition: -8 % Ammonium -6 % Nitrate  Granular size: ø 3,0-3,6 mm	25 kg bag 50 kg bag 600 kg Big bag 1000 kg Big bag bulk  Container 20':  21 mt (25 kg) 20 mt (50 kg) 25 mt (bulk)	<b>horticultural crops</b> - Application based on soil analysis and on the expected yield - For basal and top dressing of intensive crops such as ornamentals and vegetables (greenhouse, open field), grapes, nursery trees and shrubs.
ENTE <sup>®</sup> TEC <sup>®</sup> Blue Special	12+12+17 (+2MgO+8S+TE) 	NPK compound fertilizer with Potassium Sulphate, Magnesium and micronutrients (without Potassium Chloride) and nitrification inhibitor DMPP reduces N-leaching and increases N-efficiency.  Nitrogen Composition: -7 % Ammonium -5 % Nitrate  Granular size: ø 3,0-3,6 mm	25 kg bag 50 kg bag 600 kg Big bag 1000 kg Big bag bulk  Container 20':  21 mt (25 kg) 20 mt (50 kg) 25 mt (bulk)	<b>horticultural crops</b> - Application based on soil analysis and on the expected yield - For basal and top dressing of intensive crops such as ornamentals and vegetables (greenhouse, open field), fruit, grapes, nursery trees and shrubs.

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