

# Introducing ONIT Sciences

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# The Principles Behind the Use of Nanosurfactants



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# Foliar Absorption

- Plants DO absorb nutrients through their leaves
- But only while the spray is wet on the leaf
- Much of the absorption takes place through or near the stomates
- Many plants have more stomates on the undersides of the leaves
- Major nutrients are absorbed much more quickly and efficiently than micronutrients
- Surfactants are known to increase foliar absorption of nutrients by increasing contact surface area of the spray





**A tablespoon of  
healthy field soil  
contains 4 billion  
microbes**




**If you hold healthy  
field soil in both of  
your hands....**

**You have more  
microbes in your  
hands than there  
are people on this  
planet !**





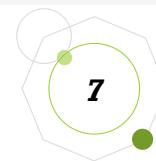


**Most of them need a  
carbon source to  
sustain themselves**



# Organic Natural Input Technologies

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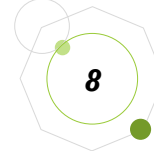
# How ONIT Grow Works

ONIT Grow is a nanosurfactant additive for nutrient or fertilizer solutions

Formulated with the highest quality purified and activated organic matter carbon source

It is a non-ionic input, with beneficial soil health and plant stimulant properties

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# About the Company



## About ONIT Sciences

ONIT Sciences has secured a portfolio of intellectual property developed over the past decade

ONIT Sciences is an American company headquartered in Southern California

ONIT Sciences acquires, researches, develops, formulates and monetizes proprietary organic, sustainable agricultural input technologies

ONIT is expanding operations worldwide through strategic relationships and joint development and marketing agreements



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# Five Modes of Action

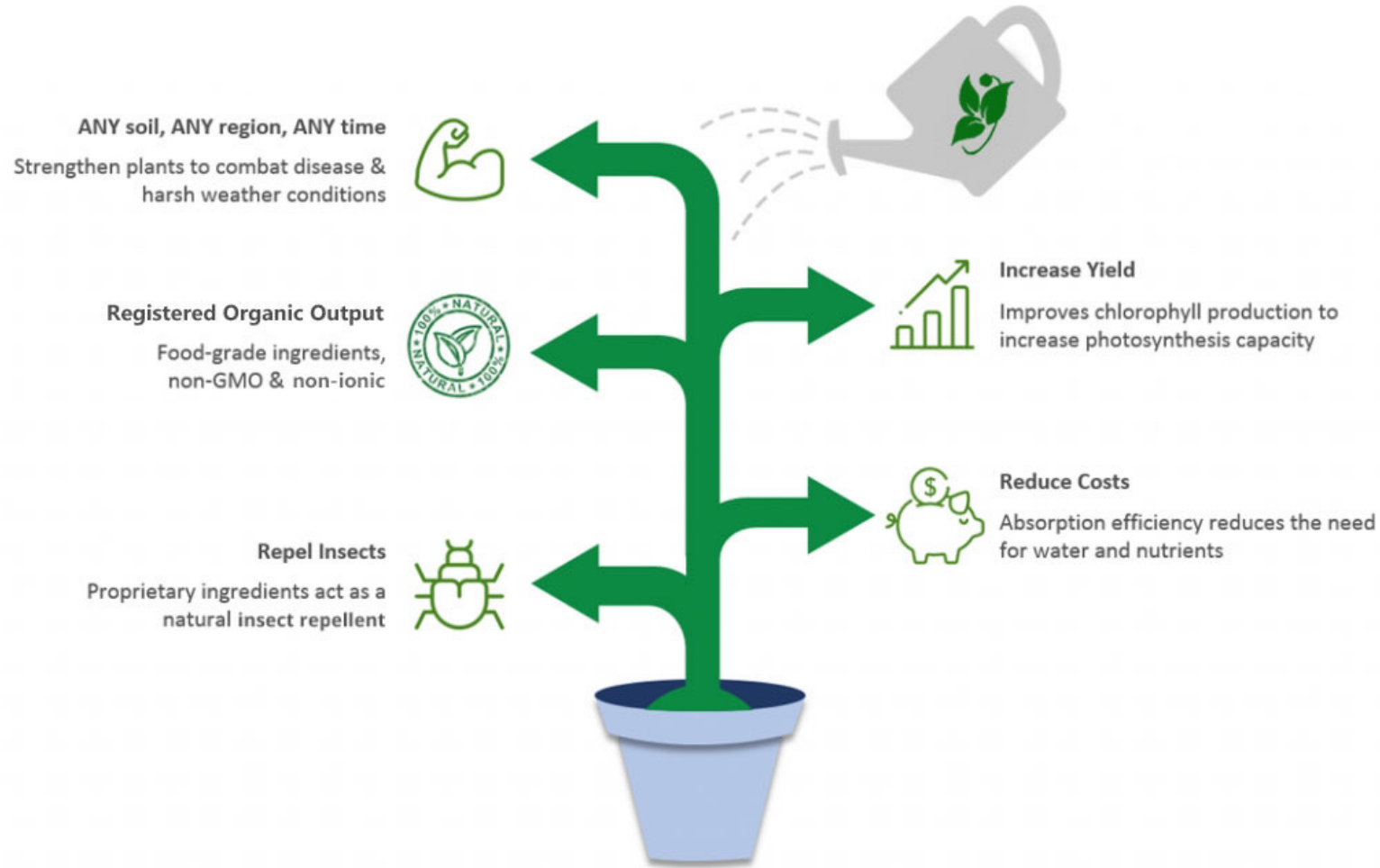
- Nanosurfactant
- Emulsifier
- Adjuvant
- Wetter
- Soil Conditioner



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# ONIT Grow



# Other Considerations

- Breaks surface tension of leaves and soil, allowing plants to respire
- Penetrates cell walls and enters directly into chloroplasts
- Converts nutrients into available forms
- Enhances chlorophyll production for greener and healthier leaves
- Optimizes plant oxygen and nutrient uptake
- Improves enzymatic processes to stimulate plant immune system



# Product Line

## ONIT Product Family



- **ONIT Grow™** is a proprietary input technology that utilizes a groundbreaking non-GMO, all-organic formulation to dramatically enhance crop growth by stimulating the nutrient and water uptake in plants.
- **ONIT Input Plus** is a scaled-down version of the ONIT Grow product. It contains nano-input technology designed to be used with other nutrients, pesticides, fungicides or other products. ONIT Input Plus allows the immediate delivery of these products at the plant's cellular level and at a significantly reduced price point. ONIT Input Plus, like ONIT Grow, is a registered organic input.
- **ONIT Input** is identical to ONIT Input Plus, but it is comprised of all-natural ingredients that have not been certified organic. It is our lowest priced product.

# How ONIT Grow Works

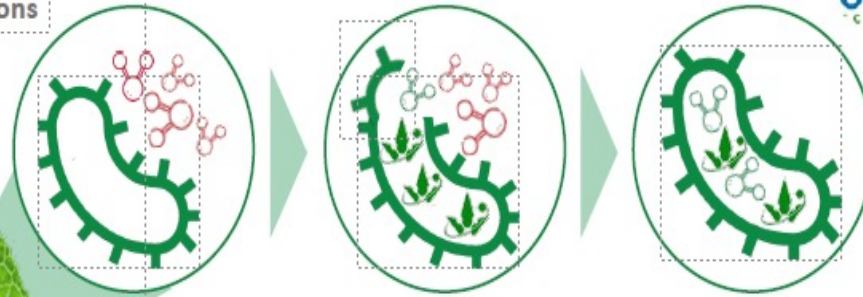
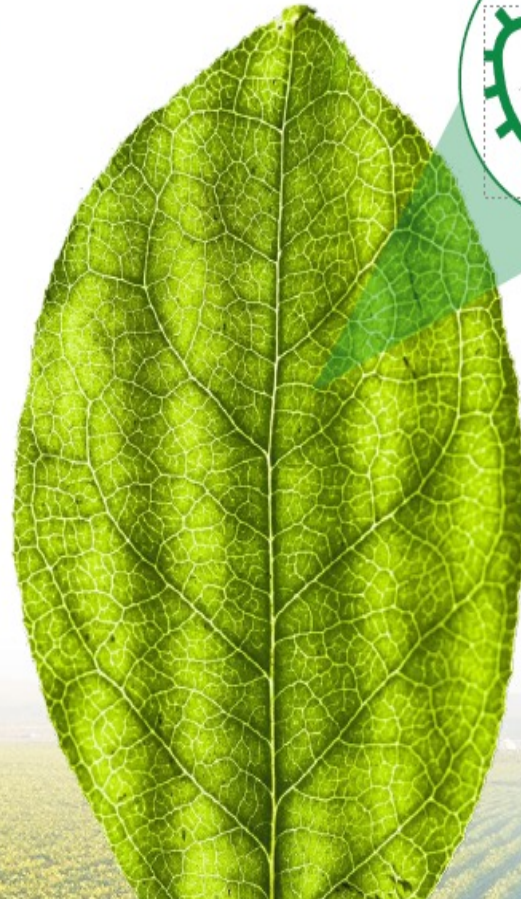


## How ONIT Grow™ Works

A nano-surfactant additive to nutrient or fertilizer solutions

ONIT Grow™ is formulated with the highest quality, purified and activated organic matter carbon source. It is a non-ionic input, with beneficial soil health and plant stimulant properties which:

- Acts as an organic nanosurfactant additive to nutrient or fertilizers producers' solutions
- Improves delivery and absorption activity in both soil and plant tissue, thereby dramatically increasing growth potential
- Reduces surface tension on leaves which increases absorption and decreases water requirements



ONIT Grow™ unlocks the full potential of macro & micro nutrients by manipulating their molecular structures

- Breaks surface tension of leaves and soil, allowing plant to breathe
- Penetrates cellular wall and injects directly into chloroplasts
- Converts nutrients to a recognizable form
- Enhances chlorophyll production for greener and healthier leaves
- Optimizes plant oxygen and nutrient uptake
- Improves enzymatic process to stimulate plant immune system



ONIT's secret ingredient is a rare combination of ions and isotopes that is extremely difficult to source



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# Foliar Nutrition is all About Absorption





# Turfgrass Trials





# St. Augustine Turf

One week after  
spraying ONIT  
with soluble 24-  
8-16 :

- Turf on the left was taller and darker green than 24-8-16 alone
- ALL major and minor nutrient levels increased more in the leaf tissue with ONIT over controls. Sodium level went down !



# Strawberries



## Appendix A

### Summary of applications of ONIT Grow™ in Mexico

#### Strawberry test—Region: Zamora, Michoacan

The area where onit grow was used presents a more intense green color and a firmer consistency in the fruit, denoting a greater absorption of the applied nutrients, as well as better effectiveness in insect control



The control area shows less intense coloration, irregular maturation and greater attack by insects.



# Green Beans

## Green Bean Test—Region: Guasave, Sinaloa



The area where ONIT Grow was used presented more flowers per plant and was less susceptible to diseases. An increase of 100 kg per hectare was achieved.



The control area shows more damage from pests and less production at harvest.

# Cucumbers

## Cucumber Test—Region: Queretaro, Queretaro



The area where ONIT Grow was used presented the best fruit mooring. The producers are satisfied with the results. More data will be provided after harvest.



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# Tomato

## Tomato Test—Region: Muna, Yucatan



We can observe a more uniform filling in the tomatoes where ONIT Grow was used, while air voids that influence the weight and quality of the tomato are observed in the control.

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# Rice

## Appendix B

Field test results using the formulation on rice





# Rice Yield Data



## Industry Test Results: Rice

Rice – BSMR Ag University, Dhaka, Bangladesh

Crop season: Jan – May 2017

Crop duration: 61 days

Description	Controlled	Applied	Yield Increase
No. of paddy stick/ear (3 plants)	44	55	+ 25%
Count of grains (3 plants)	3656 Grains	6474 Grains	+ 77%
Total weight of field yield	858 kg	1240 kg	+ 45%

Untreated



Treated



# Corn

## Appendix C

Field test results using the formulation on corn



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# Corn

## Industry Test Results: Corn

### Results

- ✓ This test was done to illustrate product's effectiveness under drought circumstances
- ✓ Using the product, producer experienced a yield of 70 bu/acre on non-irrigated plots
- ✓ NOT using the product, due to drought, the yield was 0 bu/acre on non-irrigated plots

Treated crop on left



Untreated crop on right



# Check Out the Grower Testimonials on Our Website

- “Harvest will be next week and looks to be significantly larger than anything I have had in the last five years.”
- Foliage was noticeably lusher with a darker green color in the groups that received ONIT applications, specifically in the groups which received foliar applications. In the groups that received soil drench applications, I noticed an increase in water retention or higher moisture level of the medium between water applications compared to the control groups.”
- “Stalks more than doubled in thickness within 2 1/2 weeks from starting use of ONIT.”
- “One weekend, the AC happened to break. Upon returning, half the plants had died. Only the ONIT Grow plants survived.”
- “This is an amazing product !”

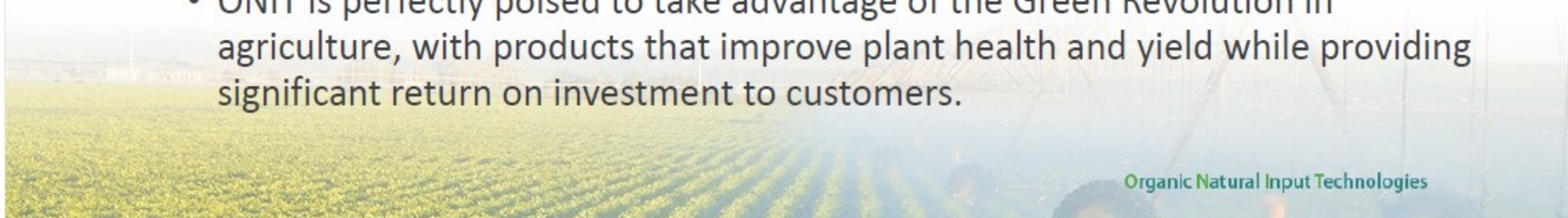


# In Summary :

## Summary



- Right products
  - Our flagship ONIT Grow™ product, and our ONIT Input+ and ONIT Input products, answer the need to improve crop production through natural, organic, non-GMO practices.
- Right time
  - The worldwide demand for organically grown crops is at an all time high—and growing steadily.
- Right market
  - ONIT is perfectly poised to take advantage of the Green Revolution in agriculture, with products that improve plant health and yield while providing significant return on investment to customers.



# Contact



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# Thank You !



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