



CheonjiBio

FERTILIZER MANUFACTURING COMPANY

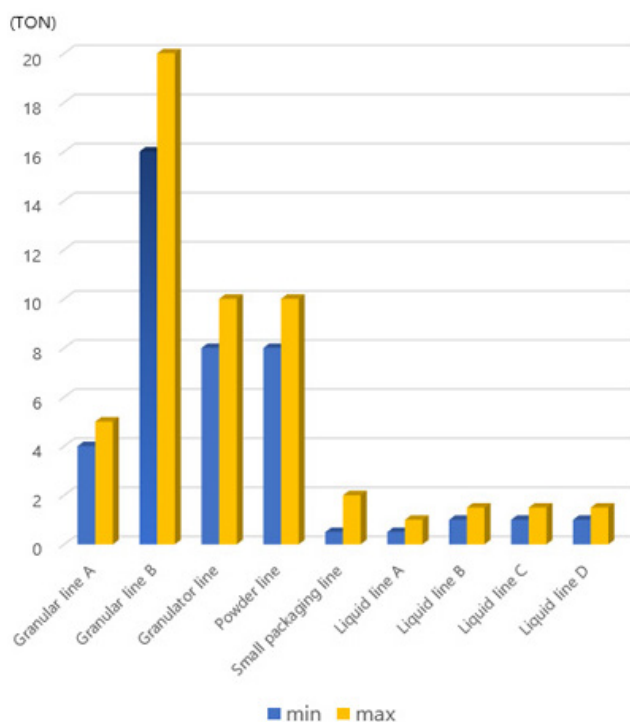
www.cheonjibio.com

FACILITY CAPACITY

(UNIT : TON)

CATEGORY	DETAIL	UPH	REMARK
Granular line A	Simple mixed production of N, P, K, Ca, Mg, S, SiO ₂ +TE	4 ~ 5	BULK BLENDING
Granular line B	Simple mixed production of N, P, K, Ca, Mg, S, SiO ₂ +TE	16 ~ 20	BULK BLENDING
Granulator line	Produce fertilizer in one form	8 ~ 10	ONE TYPE / COATING
Powder line	Production of fertilizers for irrigation and functional fertilizers	8 ~ 10	10kg / 20kg
Small packaging line	Small package production	0.5 ~ 2	250g / 500g / 700g / 1kg / 2kg
Liquid line A	Functional fertilizer production	0.5 ~ 1	100mL / 250mL / 300mL / 500mL 1L / 2L / 4L / 10L
Liquid line B	Functional fertilizer production	1 ~ 1.5	100mL / 250mL / 300mL / 500mL 1L / 2L / 4L / 10L
Liquid line C	Functional fertilizer production	1 ~ 1.5	100mL / 250mL / 300mL / 500mL 1L / 2L / 4L / 10L
Liquid line D	Functional fertilizer production	1 ~ 1.5	100mL / 250mL / 300mL / 500mL 1L / 2L / 4L / 10L

UPH



The world's best
fertilizer manufacturing company

TABLE OF CONTENTS

1 Natural soil conditioners

Why ILLITE?	9
ILLITE	11
WORLD ILLITE	13
CMS ILLITE	15

2 Macronutrients

POWDER - 100% WATER SOLUBLE

VITA-GREEN	19
CAROTENE-K	21
SUGAR-CALCIUM	23

3 Biostimulants

LIQUID

MAGIC-FARM	27
SUPER-GROW	29
AMINO-CM	31
SUPER-RON	35
COLOR-MIN	37
SUGAR-CALCIUM	39

4 Biocontrols

SPEED	43
-------------	----

FERTILIZERS

Product Name	Type	Description	N Composition (%)			Main Nutrients(%)		Secondary Nutrients (%)			
			Amm N	Nitric N	Total N	P ₂ O ₅	K ₂ O	CaO	MgO	S	SiO ₂
ILLITE	Powder	100% Illite (Organic)				AVG 0.02	AVG 7.26	AVG 0.01	AVG 0.25		AVG 52.01
WORLD ILLITE	Dispersing Granules	Illite 23CaO + 5MgO 12S + 10SiO ₂ + TE						23	5	12	10
CMS ILLITE	Dispersing Granules	Illite 29CaO + 15MgO 5SiO ₂ + TE						29	15		5
VITA-GREEN	Powder (100% Soluble)	N-P-K L-AAAs (9) BEMs (Carnitine, Inositol, etc.)	10	2	12	12	12			13	
CAROTENE-K	Powder (100% Soluble)	20%P + 40%K FA BEMs (β -Carotene, Betaine, etc.)				20	40				
SUGAR CALCIUM	Powder (100% Soluble)	24% CaO FA 10% Stevia BEMs (PS, Inositol, Mannitol)						24			
MAGIC-FARM	Liquid	L-AAAs (9) BEMs (CDKs, P agent)									
SUPER-GROW	Liquid	L-AAAs (9) BEMs (CDKs, P agent)									
AMINO-CM	Liquid	L-AAAs (18) CaO + MgO BEMs (CDKs, Enzymes, etc.)		7.5	7.5			7	4		
SUPER-RON	Liquid	L-AAAs (12) FA BEMs (Carotenoids, CDKs)									
COLOR-MIN	Liquid	L-AAAs (12) FA BEMs (Flavonoids, Enzymes, etc.)									
SUGAR CALCIUM	Liquid	11% Chelated CaO FA 10% Stevia BEMs (PS, Inositol, Mannitol)						11			
SPEED	Liquid	Spreading & Penetration Control Foam									

Trace Nutrients (%)						Bio-Enhancements					Pkg. Wt.
B	Zn	Fe	Cu	Mn	Mo	L-Amino acids	Humic acids	Fulvic acids	Illite	BEMs	
	●	●	●	●					100%		20kg, 1TON BAG
0.1	0.05	0.05			0.005				●		20kg, 1TON BAG
0.05	0.05				0.005				●		20kg, 1TON BAG
0.05					0.005	●				●	0.5/0.7/1.0/2.0/10/20kg 1TON BAG
0.05					0.0005			●		●	0.5/0.7/1.0/2.0/10/20kg 1TON BAG
						●		●		●	0.5/0.7/1.0/2.0/10/20kg 1TON BAG
0.05					0.005	●				●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
0.05					0.005	●				●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
						●				●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
0.05					0.005	●				●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
0.05					0.005	●		●		●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
						●		●		●	0.5/1.0/2.0/4.0/10.0L 1 IBC TANK
										●	0.1/4.0/10.0L 1 IBC TANK

Growing Crops SOLUTIONS

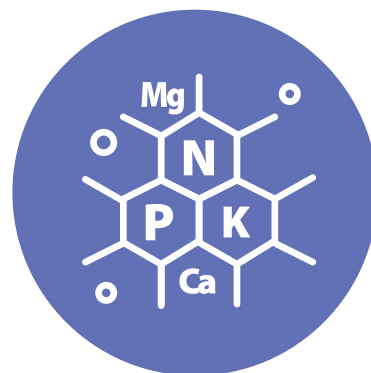
From prevention to cure, integral solutions for the entire crop cycle.

Therefore, we offer a combination of solutions for farmers to take care of the health of their crops on an ongoing basis.

We want them to have the tools to go with the needs of their crops and thus maximize their potential.

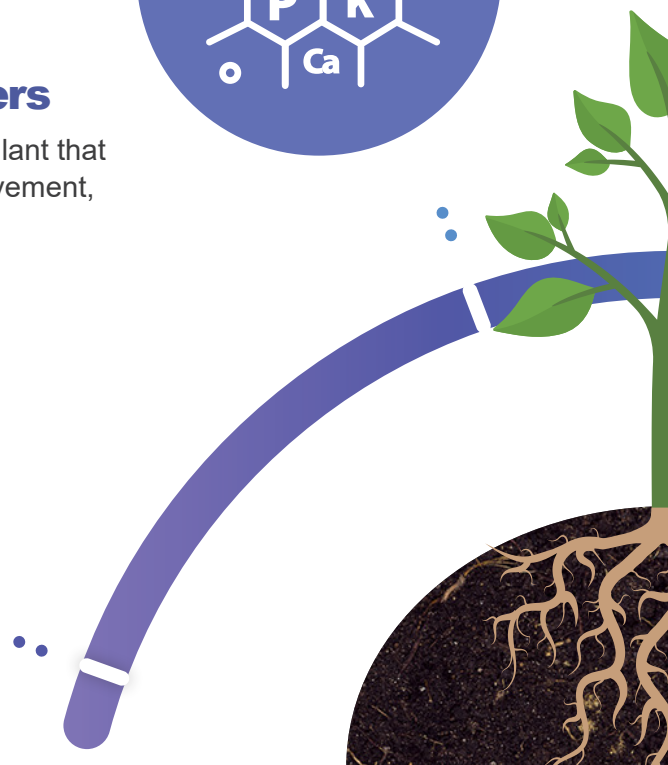
2 **Macronutrients**

A solution that provides essential nutrients with the minimum amount of efficient input.



1 **Natural soil conditioners**

Organic chelator and microbial stimulant that provides benefits such as soil improvement, pH neutralization and EC reduction.





Soil



Foliar



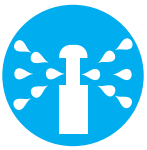
Greenhouse



Dusting



Drip irrigation



Sprinkler



Aerial application

3

Biostimulants

Microbiological solutions to boost quality growth from the root to the fruit.



4

Biocontrols

A functional solution that helps plants absorb nutrients and maintain the effect period.

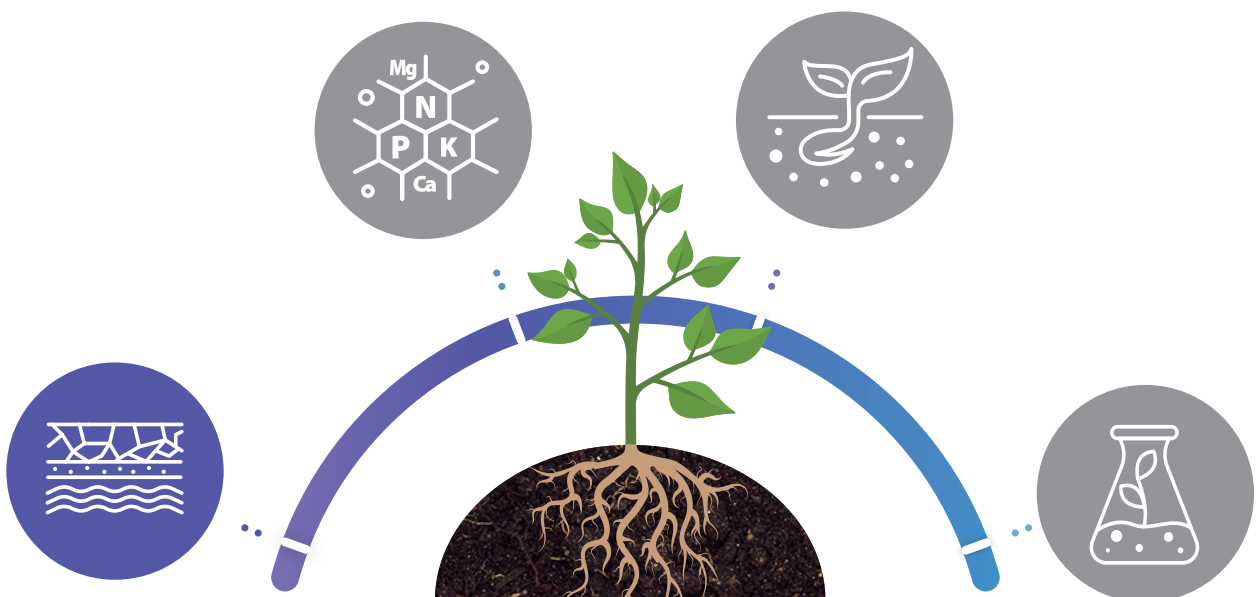


Growing Crops

SOLUTIONS

1 Natural soil conditioners

Organic chelator and microbial stimulant that provides benefits such as soil improvement, pH neutralization and EC reduction.



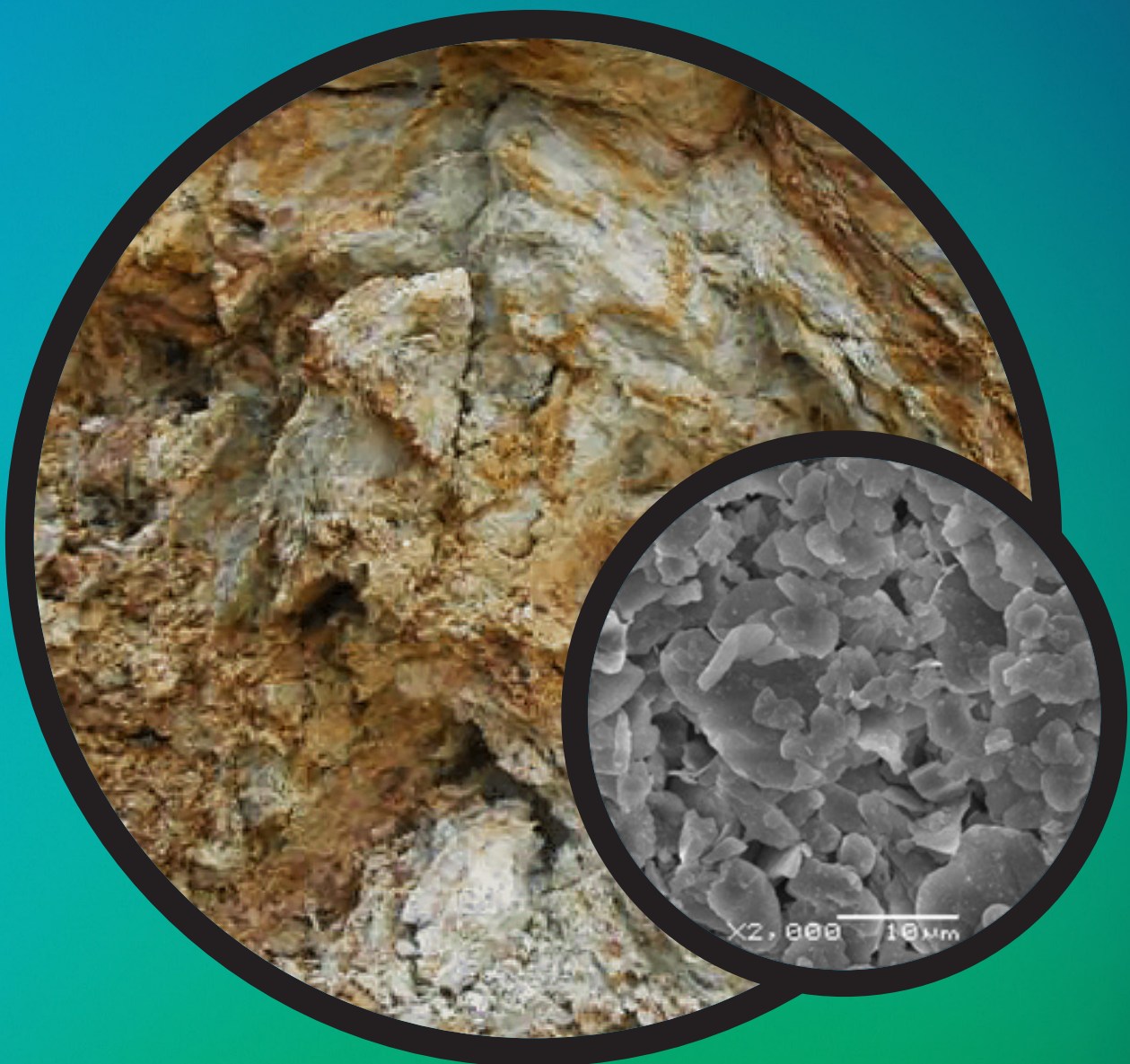
Natural soil conditioners

Organic chelator and microbial stimulant that provides benefits such as soil improvement, pH neutralization and EC reduction.



YEONGDONG
ILLITE

- ILLITE
- WORLD ILLITE
- CMS ILLITE



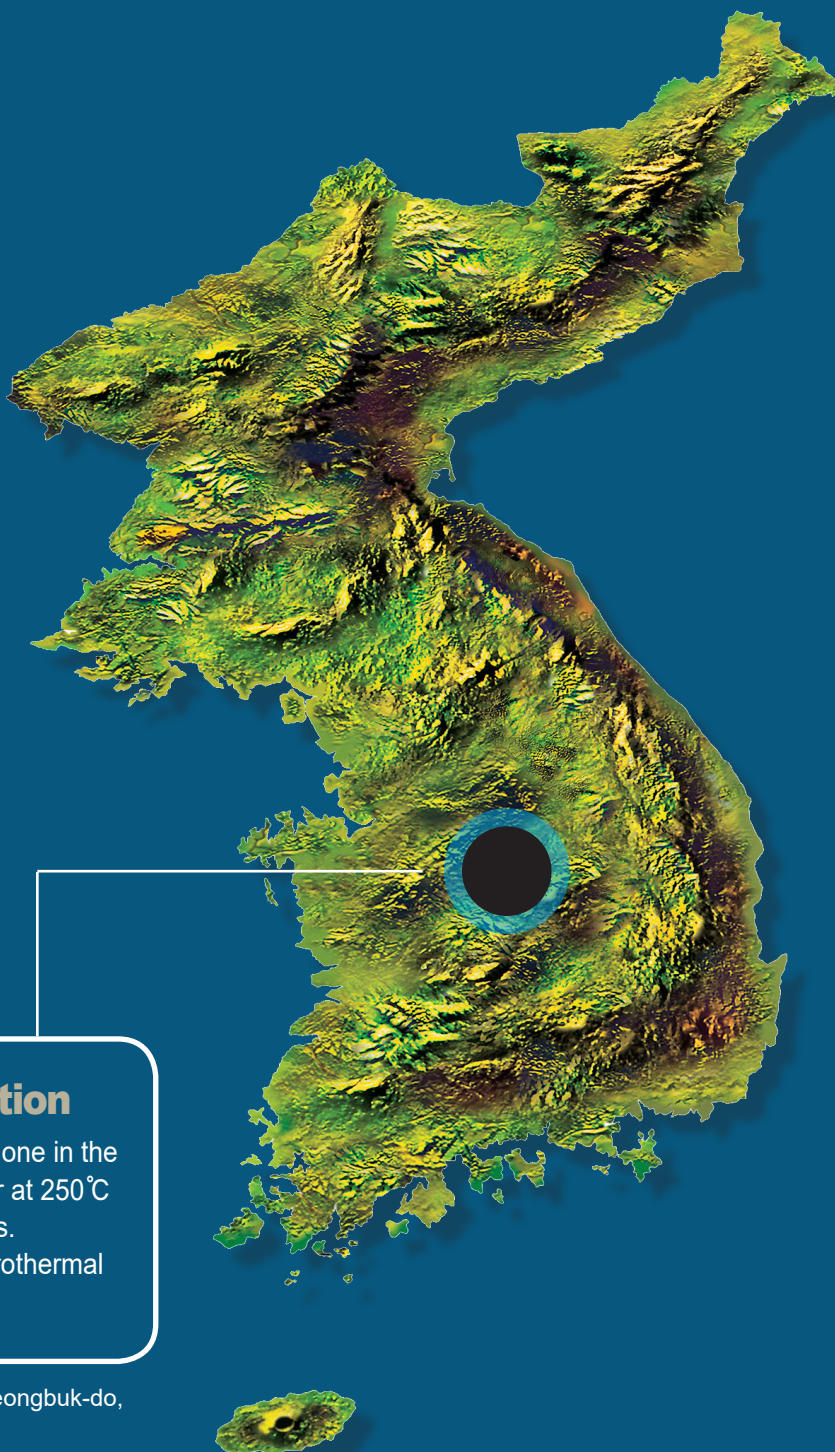
WHY ILLITE?



Distribution and Quality

The Illite produced by CHEONJIBIO has a higher content of Illite than any other region.

Illite is distributed in small quantities in Quebec, Canada, Illinois in the United States, Sichuan in China, and Australia, but Yeongdong-gun in KOREA is the only place in the world where a large amount of veins are deposited.



Hydrothermal reaction

CHEONJIBIO's Illite is the only one in the world that has survived in water at 250 °C for hundreds of millions of years.

Illite is formed through two hydrothermal reactions.

» Areas of Yeongdong-gun, Chungcheongbuk-do, South Korea

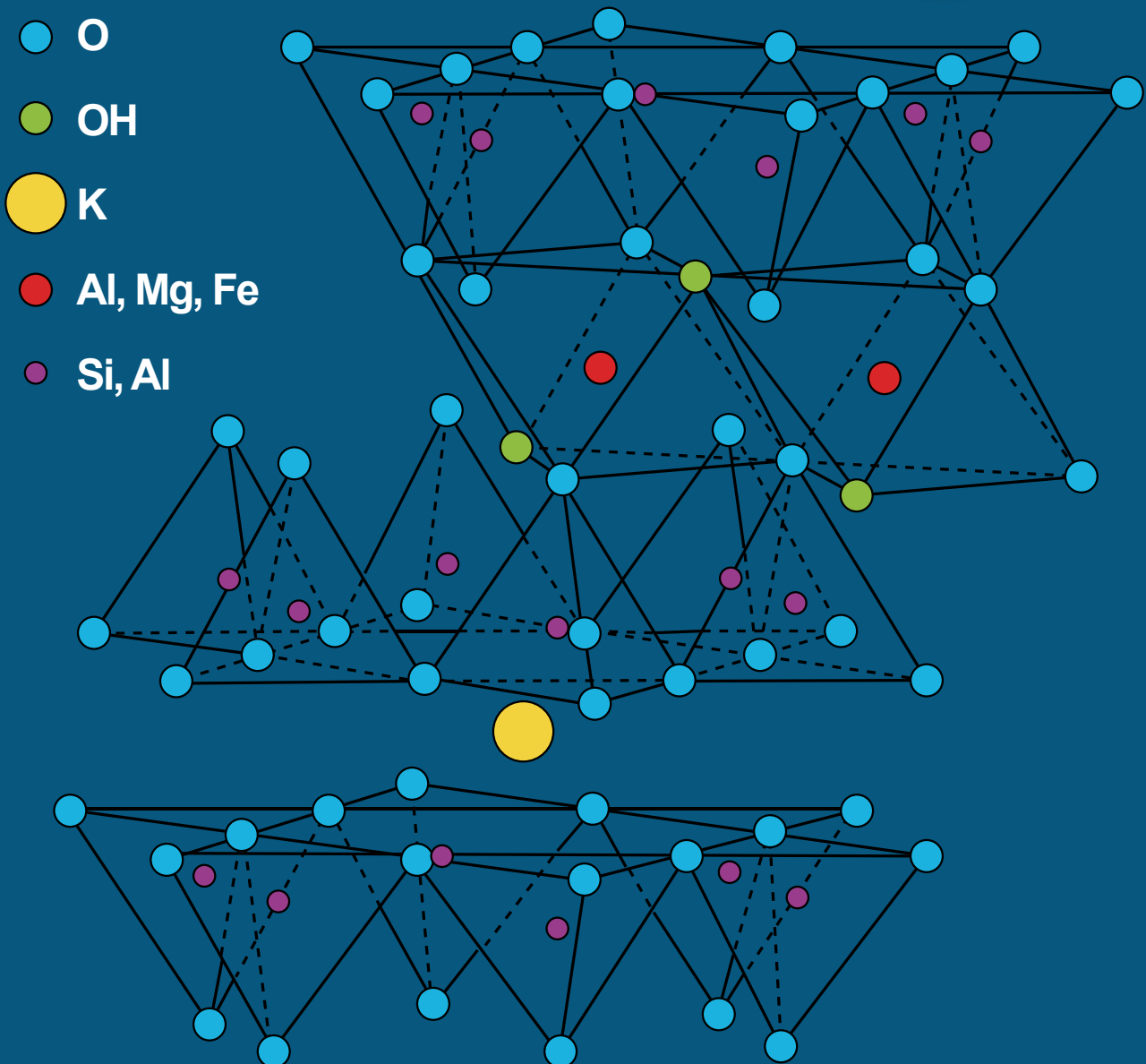
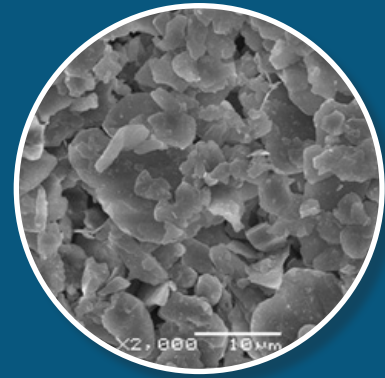


ILLITE is a natural soil conditioner, organic chelator, and microbial stimulator that provides the following benefits:



- Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
- Enhances efficiency and availability of applied nutrients
- Chelates soil micronutrients, increasing their availability
- Improves cation exchange capacity
- Enhances soil structure and biology
- Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil
- Odor removal, antibacterial effect
- Adsorption of heavy metal ions (Pb, Cd, etc.)
- Improvement of water quality

STRUCTURE OF ILLITE



• Basic chemical structure	$K_{0.8-0.9}(Al, Fe, Mg)_2(Si, Al)_4O_{10}(OH)_2$
• Point of Zero Charge (PZC)	9.6 - Adsorption is activated due to the negative charge at relatively high pH compared to other minerals.
• 2:1 layered silicate mica mineral with one octahedral layer sandwiched between two tetrahedral layers.	

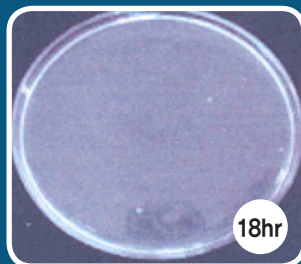
Product Name	ILLITE
Type	Powder
Description	100% Illite (Organic)
Size	1~2 μ m
Specific gravity	2.6~2.9
Color	yellow

AVG wt. %		
Main Nutrients(%)	P ₂ O ₅	0.02
	K ₂ O	7.26
Other Nutrients (%)	CaO	0.01
	MgO	0.25
	SiO ₂	52.01
Trace Nutrients (ppm)	Zn	29.3
	Fe	2.3
	Cu	1.8
	Mn	0.01

Antibacterial property test



0hr

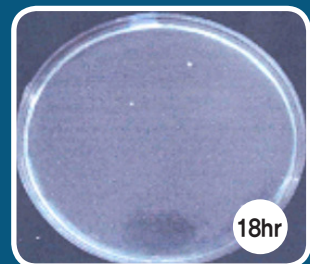


18hr

S. aureus 99.9% antibacterial effect



0hr

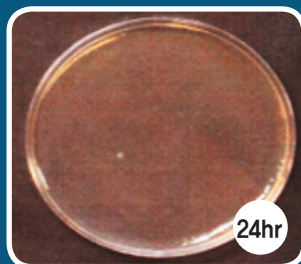


18hr

K. pneumoniae 99.9% antibacterial effect



0hr

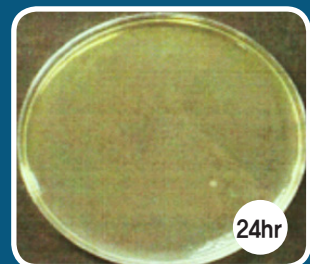


24hr

E. coli 99.9% antibacterial effect



0hr



24hr

Pseudomonas 99.9% antibacterial effect



Soil



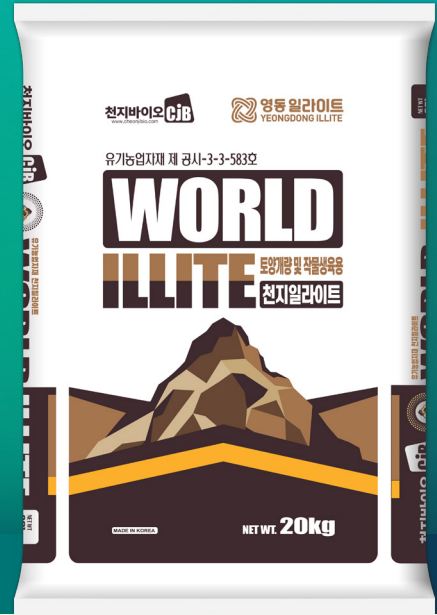
Greenhouse



For Organic Use · OMRI.org

WORLD ILLITE

Formulation : Dispersing Granular (DG) | Color : Brown



COMPOSITION

Secondary Nutrients

Calcium Oxide (CaO)	23.0% w/w
Magnesium Oxide (MgO)	5.0% w/w
Sulfur (S)	12.0% w/w
Silicon Dioxide (SiO ₂)	10.0% w/w

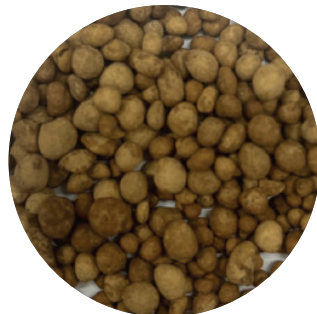
Trace Nutrients

Boron (B)	0.1% w/w
Zinc (Zn)	0.05% w/w
Iron (Fe)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

FEATURES & BENEFITS

1. Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
2. Enhances efficiency and availability of applied nutrients
3. Chelates soil micronutrients, increasing their availability
4. Improves cation exchange capacity
5. Enhances soil structure and biology
6. Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil

PACKAGING





APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	600~2,000kg / 1ha	Apply before planting
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	1,200~2,000kg / 1ha	Apply before or during sowing
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	600~2,000kg / 1ha	Apply before or during sowing
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	600~1,200kg / 1ha	Apply before or during sowing
Subtropical	Avocado, guava, kiwi, durian.		



Soil



Greenhouse

CMS ILLITE

Formulation : Dispersing Granular (DG) | Color : Brown



COMPOSITION

Secondary Nutrients

Calcium Oxide (CaO)	29.0% w/w
Magnesium Oxide (MgO)	15.0% w/w
Silicon Dioxide (SiO ₂)	5.0% w/w

Trace Nutrients

Boron (B)	0.05% w/w
Zinc (Zn)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

FEATURES & BENEFITS

1. Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
2. Enhances efficiency and availability of applied nutrients
3. Chelates soil micronutrients, increasing their availability
4. Improves cation exchange capacity
5. Enhances soil structure and biology
6. Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil



PACKAGING





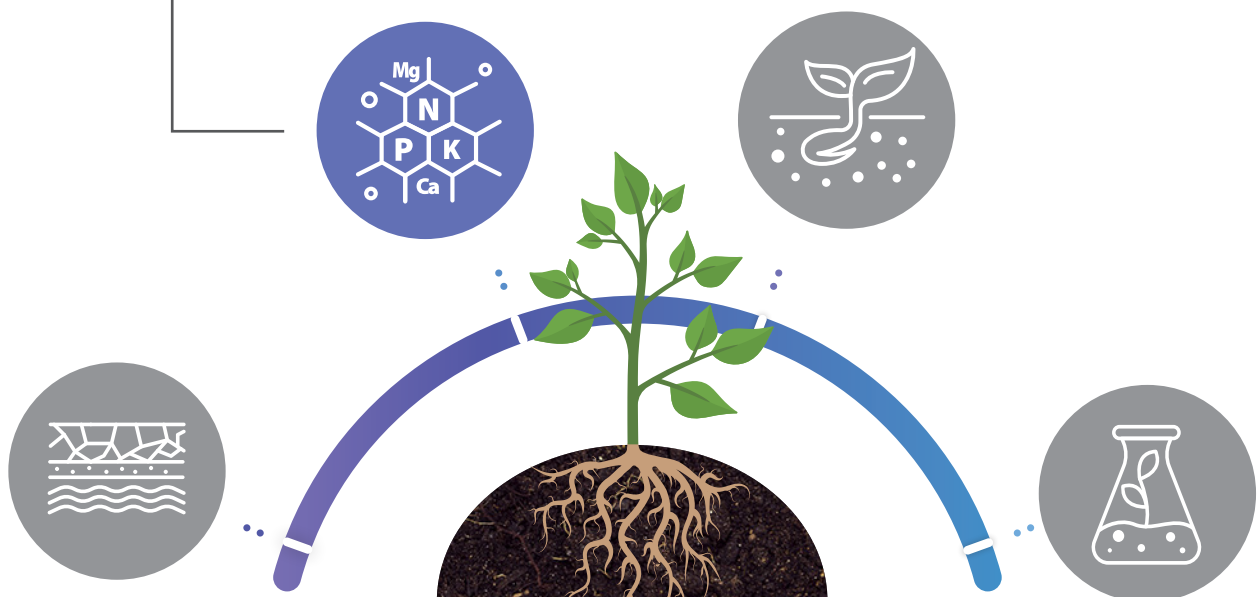
APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	600~2,000kg / 1ha	Apply before planting
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	1,200~2,000kg / 1ha	Apply before or during sowing
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	600~2,000kg / 1ha	Apply before or during sowing
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	600~1,200kg / 1ha	Apply before or during sowing
Subtropical	Avocado, guava, kiwi, durian.		

SOLUTIONS

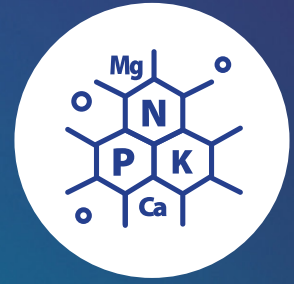
2 Macronutrients

A solution that provides essential nutrients with the minimum amount of efficient input.



Macronutrients

A solution that provides essential nutrients with the minimum amount of efficient input.



- VITA-GREEN
- CAROTENE-K
- SUGAR-CALCIUM





Foliar



Greenhouse



Drip Irrigation



Sprinkler

VITA GREEN

Formulation : Powder | Color : Brown



COMPOSITION

N Composition

Total N	12.0% w/w
Amm N	10.0% w/w
Nitric N	2.0% w/w

Main Nutrients

Phosphorus pentoxide (P ₂ O ₅)	12.0% w/w
Potassium Oxide (K ₂ O)	12.0% w/w

Secondary Nutrients

Sulfur (S)	13.0% w/w
------------	-----------

Trace Nutrients

Boron (B)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

Bio-Enhancements

L-Free amino acids (9)	•
L-Carnitine	•
Betaine	•
β-Carotene	•
Inositol	•

FEATURES & BENEFITS

1. Root development
 - Stimulates the development of secondary roots, increasing the presence of mycorrhizae and the number of root hairs
2. Flowering and setting
 - Lengthening the pollen tube favoring the fecundation of the flower
 - Increasing the germination of the pollen grain improving its quality
 - Inducing flowering and favoring fruit setting
3. Promotes the formation of photosynthesis and chlorophyll
4. Activates mechanism of the immune system of plants
5. Increases tolerance to abiotic stress
6. Activates the growth interrupted by low temperature and low light conditions

APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 700 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 700 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 700 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 700 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Growth stage: 1 ~ 2 times • Fruit expansion stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING





Foliar



Greenhouse



Drip Irrigation



Sprinkler

CAROTENE-K

Formulation : Powder | Color : Brown



COMPOSITION

Main Nutrients

Phosphorus pentoxide (P ₂ O ₅)	20.0% w/w
Potassium Oxide (K ₂ O)	40.0% w/w

Trace Nutrients

Boron (B)	0.05% w/w
Molybdenum (Mo)	0.0005% w/w

Bio-Enhancements

Fulvic acid	•
L-Cysteine	•
Betaine	•
β-Carotene	•

FEATURES & BENEFITS

1. Improves the quality, appearance, size and uniformity of the fruits
2. Favors the formation of sugars by advancing ripening and harvesting of fruits
3. Increase sugar content of fruits
4. Applies at times of greater difficulty in its absorption, such as low temperatures
5. Nourishes and/or corrects deficiencies of Potassium

APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times • Fruit coloring stage: 2 ~ 3 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit & leaves expansion stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times • Fruit coloring stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING





Foliar



Greenhouse



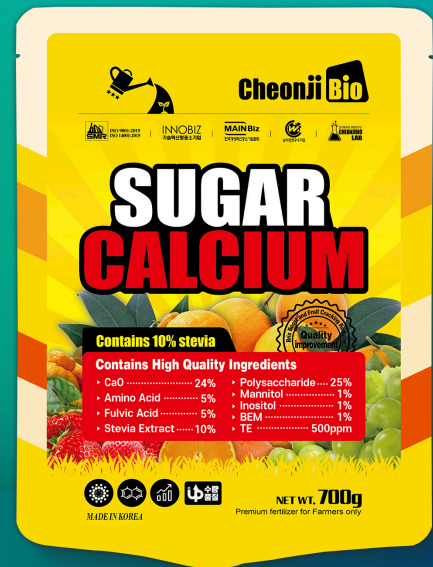
Drip Irrigation



Sprinkler

SUGAR CALCIUM

Formulation : Powder | Color : Ivory



COMPOSITION

Secondary Nutrients

Calcium Oxide (CaO) 24.0% w/w

Bio-Enhancements

L-Free amino acids	5.00% w/w
Fulvic acid	5.00% w/w
Polysaccharide	25.00% w/w
Inositol	1.00% w/w
Mannitol	1.00% w/w
Stevia extracts	10.00% w/w

FEATURES & BENEFITS

1. Increase sugar content of fruits
2. Structures the fruit and improves the final Brix degree
3. Combines the chelating and stimulating action of L-free amino acids and polysaccharides
4. Corrector of deficiencies or imbalances in calcium assimilation

APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 700 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 time • Fruit coloring stage: 2 ~ 3 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 700 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3.5kg / 1ha (dilute at 700 times) • Drip Irrigation : 25 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit & leaves expansion stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 4kg / 1ha (dilute at 700 times) • Drip Irrigation : 20 ~ 30kg / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 time • Fruit coloring stage: 2 ~ 3 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING

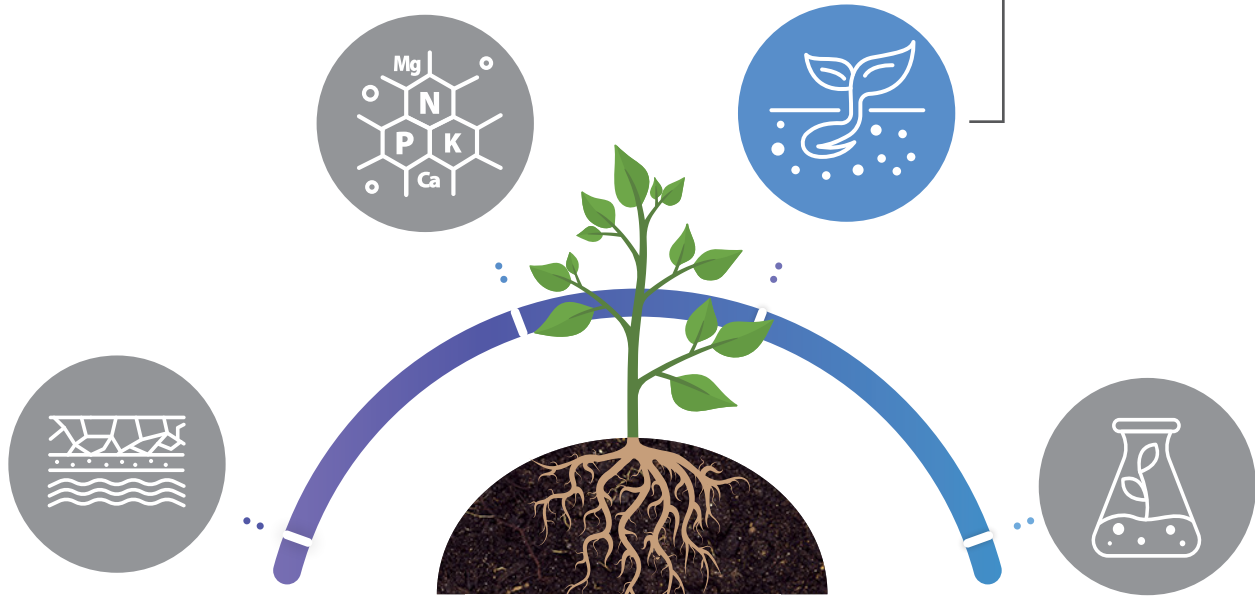


Growing Crops

SOLUTIONS

3 Biostimulants

Microbiological solutions to boost high-quality growth from the root to the fruit.



Biostimulants

Microbiological solutions to boost high-quality growth from the root to the fruit.



- MAGIC-FARM
- SUPER-GROW
- AMINO-CM
- SUPER-RON
- COLOR-MIN
- SUGAR-CALCIUM





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

MAGIC FARM



Formulation : Liquid | Color : Orange

COMPOSITION

Trace Nutrients

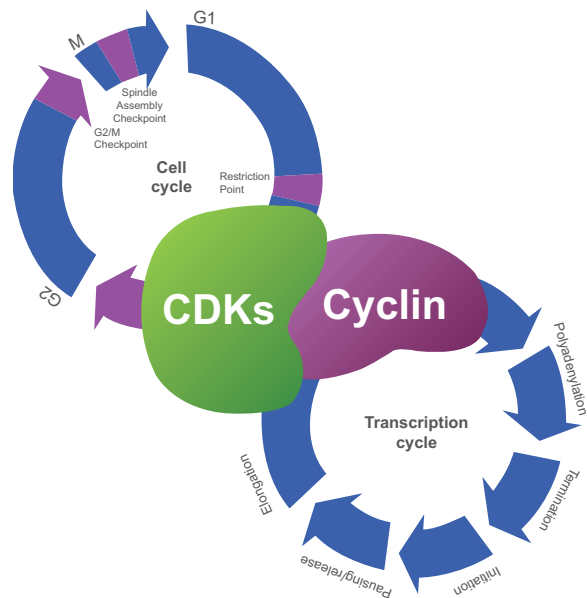
Boron (B)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

Bio-Enhancements

- L-Free amino acids(9) ●
- CDKs ●
- P agent ●

FEATURES & BENEFITS

1. Physiological inducers
2. Plant hormones promoter
3. Improves nutrients assimilation
4. Encourages pollination
5. Increases the vigour of plants
6. Improves the resistance to cold
7. Stimulates metabolism, increasing the production of energy substances



APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 1,000 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 1,000 times) • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 1,000 times) • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 1,000 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Growth stage: 1 ~ 2 times • Fruit expansion stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

SUPER GROW



Formulation : Liquid | Color : Orange



COMPOSITION

Trace Nutrients

Boron (B)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

Bio-Enhancements

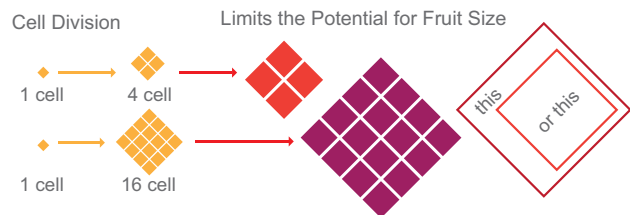
L-Free amino acids(9)	•
CDKs	•
P agent	•



FEATURES & BENEFITS

1. Root development
 - Stimulates the development of secondary roots, increasing the presence of mycorrhizae and the number of root hairs
2. Flowering and setting
 - Lengthening the pollen tube favoring the fecundation of the flower
 - Increasing the germination of the pollen grain improving its quality
 - Inducing flowering and favoring fruit setting
3. Promotes the formation of photosynthesis and chlorophyll
4. Activates mechanism of the immune system of plants
5. Increases tolerance to abiotic stress
6. Activates the growth interrupted by low temperature and low light conditions

Each single cell from mitosis  {  Only has the potential to get to a specific maximum size



APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	• Drip Irrigation : 20 ~ 30L / 1ha	• Flowering stage: 1 ~ 2 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		• Fruit setting stage: 1 time
Citrus	Orange, lemon, tangerine.		• Fruit expansion stage: 1 ~ 2 times
Berries	Strawberry, caneberry, blueberry, raspberry.	• Drip Irrigation : 25 ~ 30L / 1ha	• Rooting stage: 1 time
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		• Flowering stage: 1 ~ 2 times
Leafy vegetables	Lettuce, spinach, celery.	• Drip Irrigation : 25 ~ 30L / 1ha	• Fruit setting stage: 1 time
Cole crops	Broccoli, cauliflower, brussel sprout.		• Fruit expansion stage: 1 ~ 2 times
Roots and tubers	Potato, garlic, onion, shallot, carrot.	• Drip Irrigation : 20 ~ 30L / 1ha	• Rooting stage: 1 time
Subtropical	Avocado, guava, kiwi, durian.		• Growth stage: 1 ~ 2 times
			• Fruit expansion stage: 1 ~ 2 times

PACKAGING





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

AMINO CM



Formulation : Liquid | Color : Orange



COMPOSITION

N Composition

Total N	7.5% w/w
Organic N	7.5% w/w

Secondary Nutrients

Calcium Oxide (CaO)	7.0% w/w
Magnesium Oxide (MgO)	4.0% w/w

Bio-Enhancements

- L-Free amino acids (18)
- CDKs
- Enzymes



FEATURES & BENEFITS

1. Rich in free amino acids with low molecular weight with L-levogyrous configuration
2. Promotes a quick recovery from physiological and environmental stress factors
3. Improves nutrients assimilation
4. Stimulates photosynthesis and contains excess vegetative growth
5. Encourages pollination
6. Increases the vigour of plants
7. Improves the resistance to cold
8. Corrector of deficiencies or imbalances in calcium, magnesium assimilation
9. Increases the sugar content and the organoleptic components of the final production

APPLICATION

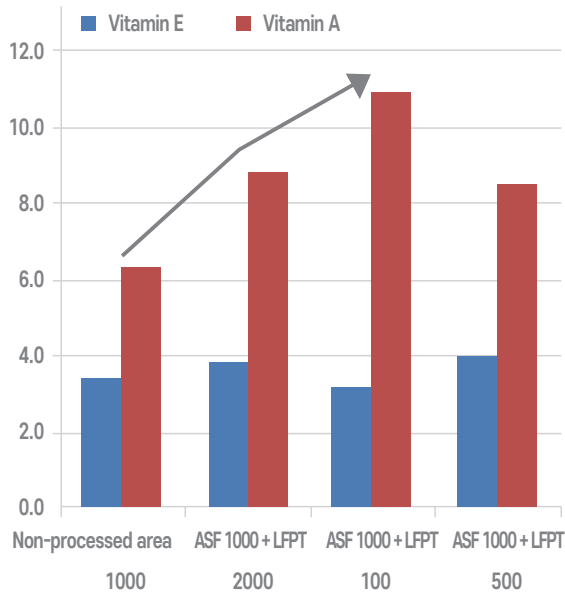
Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times • Fruit setting stage: 1 time • Fruit expansion stage: 1 ~ 2 times
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Flowering stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Rooting stage: 1 time • Growth stage: 1 ~ 2 times • Fruit expansion stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING

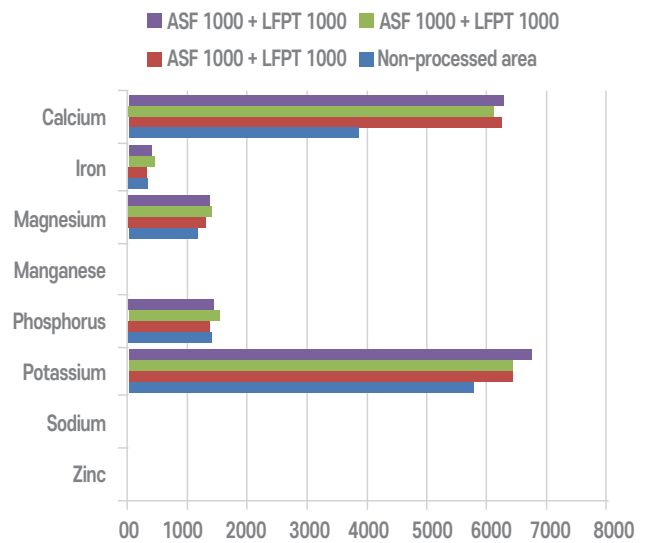


PROVEN PERFORMER

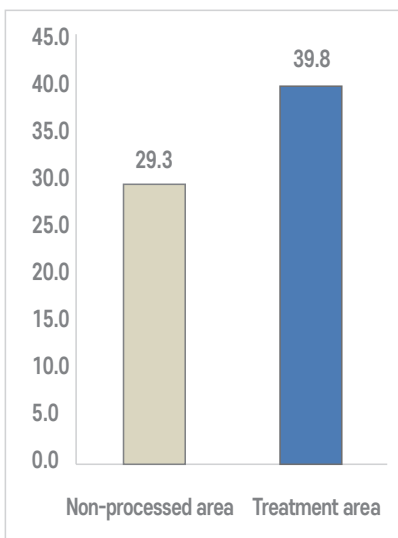
Contains abundant animal amino acids, proteins, chitosan, seaweed extract, humic acid, etc. to improve fertilization, fruiting rate, enlargement, crop vitality, cold damage, etc.
It is a new concept comprehensive active product that prevents frost damage.



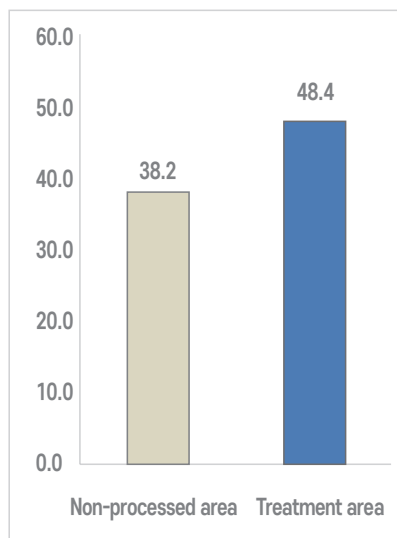
Comparison of vitamin E and A content by perilla leaf concentration



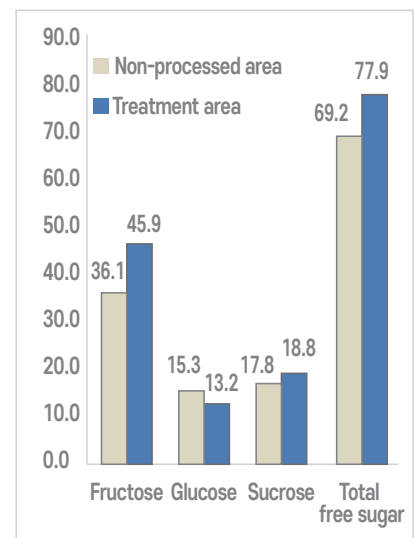
Comparison of perilla leaf element content



Vitamin C content comparison



Antioxidant level comparison



Comparison of sugar content by type

TYPES OF AMINO ACIDS

Amino Acid	Amino acids from chicken feather extract (keratin content (% by weight))	Amino acid content of fishmeal extract such as crab, shrimp, etc. (% by weight)
Cystine	0.674	1.358
Methionine	0.284	1.289
Aspartic acid	2.028	5.893
Threonine	0.285	1.972
Serine	0.595	1.740
Glutamic acid	4.271	9.358
Glycine	3.854	3.391
Alanine	2.580	3.105
Valine	2.351	2.912
Isoleucine	1.315	2.752
Leucine	2.908	4.499
Tyrosine	0.371	1.274
Phenylalanine	1.739	1.923
Lysine	1.031	5.436
Histidine	0.348	1.125
Arginine	1.164	2.674
Proline	3.821	2.435
Tryptophan	-	0.665
Sum	29.619	53.801

Amino Acid	Growth promotion	Taste improvement	Scent	Sugar content	Coloring	Overmature	Note
Alanine		●		●	●		Contains a lot in apple juice
Glycine		●	●	●			Cold resistance
Valine	●	●	●				Inhibition of pathogen growth
Threonine	●	●				●	Antibacterial
Serine	●	●					Accumulation of sugar
Leucine	●●	●	●		●		Storability
Isoleucine	●●	●			●		Involved in crop chlorophyll production
Proline		●	●	●	●●	●	Storability, elimination of convergence problems
Cystine	●	●			●		Physiological activity, cold resistance
Methionine	●	●			●●	●●	Cold-resistant antibacterial properties, ethylene synthesis
Phenylalanine	●●	●					Inhibition of pathogen growth, antibacterial properties
Aspartic acid	●	●●	●	●	●		Involved in DNA and RNA synthesis
Lysine	●	●	●				Suppresses water blast disease
Glutamic acid	●	●●	●	●		●	Antibacterial, cold resistance
Arginine	●	●		●			Inhibition of pathogen growth
Histidine	●	●					Involved in crop chlorophyll production
Tyrosine		●●				●	Disease resistance, strengthening immune system
Tryptophan	●			●	●		Auxin, antibacterial, rooting



Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

SUPER RON



Formulation : Liquid | Color : Orange



COMPOSITION

Trace Nutrients

Boron (B)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

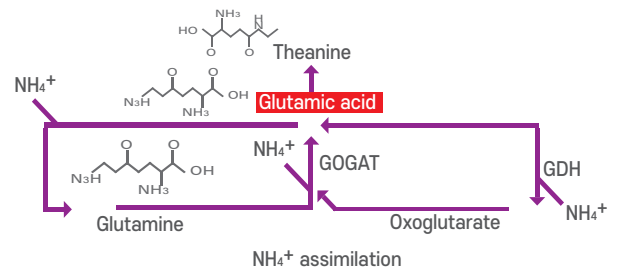
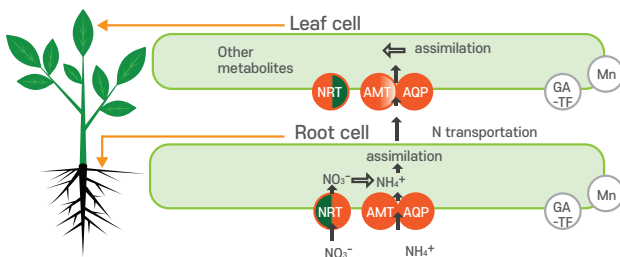
Bio-Enhancements

- L-Free amino acids (12)
- Carotenoid complex
- CDKs



FEATURES & BENEFITS

1. Promotes cell division and thickening
2. Transfers the energies of the plant from the reserve structures to the fruits
3. Improves texture and protection
4. Lengthens durability(Shelf-life or post-harvest life)
5. Increases caliber and fruit filling
6. Enhances final yield



APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.		
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times • Fruit coloring stage: 2 ~ 3 times
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Drip Irrigation : 25 ~ 30L / 1ha 	
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit & leaves expansion stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.	<ul style="list-style-type: none"> • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit coloring stage: 1 ~ 2 times

PACKAGING





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

COLOR MIN



Formulation : Liquid | Color : Orange

COMPOSITION

Trace Nutrients

Boron (B)	0.05% w/w
Molybdenum (Mo)	0.005% w/w

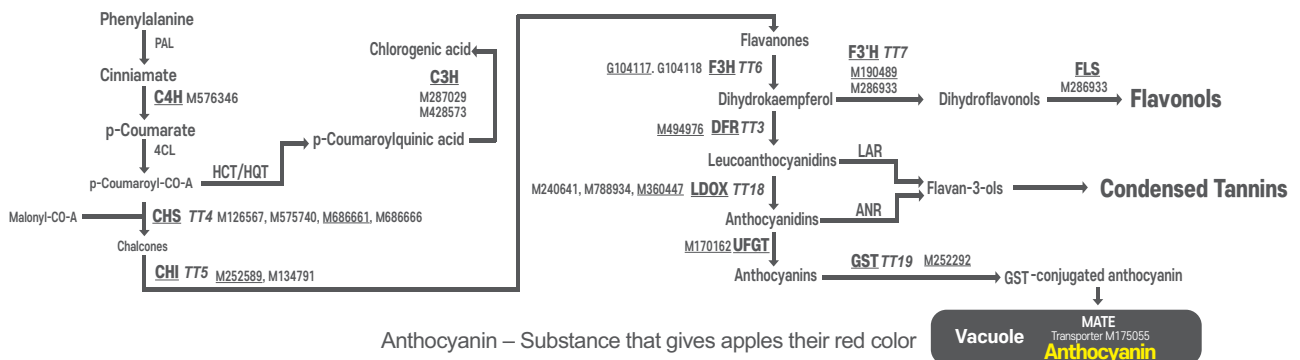
Bio-Enhancements

- L-Free amino acids (12)
- Fulvic acid
- Flavonoid complex
- Enzymes

FEATURES & BENEFITS

1. Exerts a stimulating effect on the crops, improving the uniformity, consistency and coloring of the fruits.
2. favors the formation of sugars by advancing ripening and harvesting of fruits
3. Increases the sugars content
4. Bird repellent effect

Anthocyanin Pathway in Apple



APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times • Fruit coloring stage: 2 ~ 3 times
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Drip Irrigation : 25 ~ 30L / 1ha 	
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit & leaves expansion stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 ~ 2 times • Fruit coloring stage: 1 ~ 2 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

SUGAR CALCIUM



Formulation : Liquid | Color : Brown



COMPOSITION

Secondary Nutrients

Calcium Oxide (CaO)

11.0% w/w

Bio-Enhancements

L-Free amino acids

Fulvic acid

Polysaccharide

Inositol

Mannitol

Stevia extracts



FEATURES & BENEFITS

1. Increases the sugars content

2. Structures the fruit and improves the final Brix degree

3. Combines the chelating and stimulating action of L-free amino acids and polysaccharides

4. Corrector of deficiencies or imbalances in calcium assimilation

APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.		
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 time • Fruit coloring stage: 2 ~ 3 times
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30L / 1ha 	
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.	<ul style="list-style-type: none"> • Foliar : 2 ~ 2.5L / 1ha (dilute at 500 times) • Drip Irrigation : 25 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit & leaves expansion stage: 1 ~ 2 times
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.	<ul style="list-style-type: none"> • Foliar : 2.5 ~ 3L / 1ha (dilute at 500 times) • Drip Irrigation : 20 ~ 30L / 1ha 	<ul style="list-style-type: none"> • Fruit expansion stage: 1 time • Fruit coloring stage: 2 ~ 3 times
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING

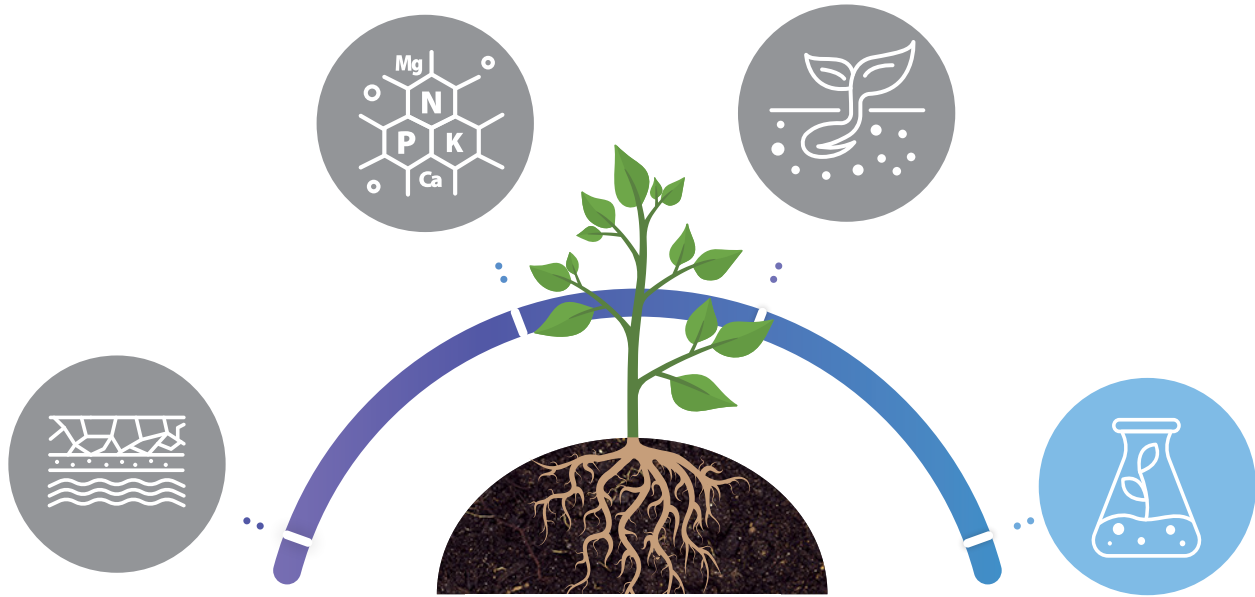


Growing Crops

SOLUTIONS

4 Biocontrols

A functional solution that helps plants absorb nutrients and maintain the effect period.



Biocontrols

A functional solution that helps plants absorb nutrients and maintain the effect period.



- SPEED





Foliar



Greenhouse



Drip irrigation



Sprinkler



Aerial application

SPEED



Formulation : Liquid | pH : 7.0 | Color : White



COMPOSITION

- Soap (Surfactants)

99.0% w/w



FEATURES & BENEFITS

1. SPREADER

When combined with a pesticide, SPEED products encourage uniform coverage of the product across the leaf allowing the active ingredient to be better absorbed by the plant.

2. DROUGHT TOLERANCE

SPEED products are retention agents. They have the ability to bind with water, which keeps moisture on a targeted substrate longer, keeps moisture in the plant longer and helps plants recover from drought conditions more quickly.

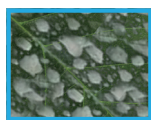
3. DRIFT CONTROL

SPEED forms heavier, larger drops that reach the target wet and holds it there. Trials have shown that up to 100% of applied aerial applications hit their target.

4. CONTROL FORM

It is convenient to use as it eliminates foam generated when mixing chemicals by preventing the formation of bubbles.

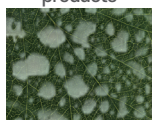
SPEED 100ml



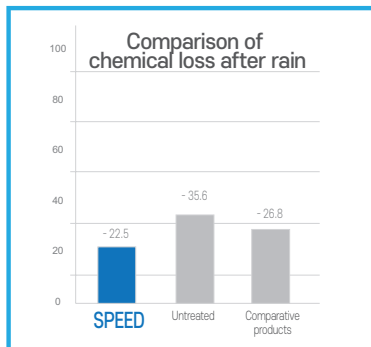
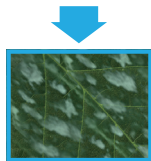
Untreated



Comparative products



After the rain



Foam removal effect when mixing chemicals



SPEED



Untreated

APPLICATION

Crops		Dose	Timing of application
Pome fruit	Apple, pear.	Foliar : dilute at 5,000 times	Foliage treatment during the growing season
Stone fruit	Nectarine, apricot, peach, plum, almond, cherry, grape.		
Citrus	Orange, lemon, tangerine.		
Berries	Strawberry, caneberry, blueberry, raspberry.		
Vegetables	Water melon, bell pepper, tomato, cucumber, eggplant, pepper, squash, pumpkin, zucchini.		
Leafy vegetables	Lettuce, spinach, celery.		
Cole crops	Broccoli, cauliflower, brussel sprout.		
Roots and tubers	Potato, garlic, onion, shallot, carrot.		
Subtropical	Avocado, guava, kiwi, durian.		

PACKAGING



CHEONJIBIO produces and supplies a wide-ranging portfolio of specialty fertilizers in more than 13 countries in Asia, Africa, Europe, and South America. Our extensive distribution network delivers a continuous flow of value to the customers with innovative plant nutrient solutions and environmental-friendly methods.

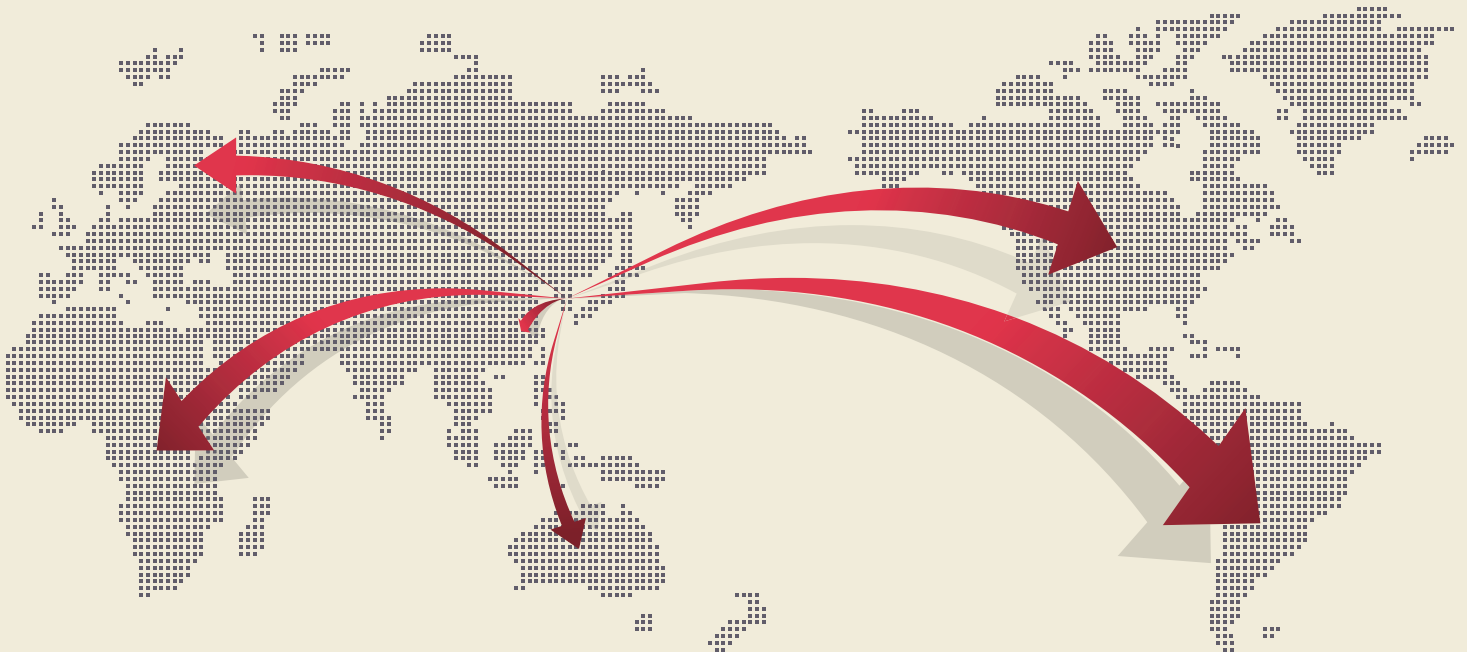


Global Operations:

USA, Australia, China, Japan, Taiwan, Thailand, Vietnam, Indonesia, Spain, Mexico, Brazil, Czech Republic, Ghana

Annual Production Capacities:

Compound fertilizer production lines: 120,000 tons per year
Liquid fertilizer production lines: 25,000 liters per year



Business registration number 501-01-51412
CEO Han Ki-Kyun



1452-57, Yeongdonghwanggan-ro, Hwanggan-myeon, Yeongdong-gun,
Chungcheongbuk-do, Republic of Korea



TEL. +82-43-745-8870 FAX. +82-43-745-8871
E-mail. cwhan@cheonjibio.com



WhatsApp



WeChat