BAOTENG

Antimicrobial Peptides

Ingredients: peptides + free amino acids
Form: liquid

Introduction

BAOTENG - Antimicrobial Peptides

Baoteng antimicrobial peptide is a peptide chain with the best molecular weight ratio obtained by enzymatic hydrolysis of natural protein and rich in more than a dozen active amino acids such as glycine, proline and glutamic acid. It can promote crop photosynthesis, improve fertilizer absorption and utilization, resist abiotic stress, and improve quality and yield by regulating crop endogenous metabolism and stimulating crop-related gene expression.

Test items	Specification	Test results	Conclusion
Appearance	Light yellow liquid	Light yellow liquid	Qualified
Organic mater	≥50g/L	456.26g/L	Qualified
Total amino acid	≥400g/L	513.33g/L	Qualified
Dissociative amino acid	≤50g/L	23.71g/L	Qualified
Water insoluble matter content	≤20g/L	0.6g/L	Qualified
Ph value (1-250 times dilution)	6.0-8.0	6.8	Qualified

Mechanism of use with herbicides

The core reasons why this product can be used with herbicides:

① Stable structure (will not chemically react with herbicide ingredients)

② PH=7 (no acid-base neutralization reaction occurs when mixing with high concentration)

The mechanism of action of cleaning grass fast:

① Promote plant respiration (open plant stomata, which is more conducive to the penetration of herbicides into weeds)

② Accelerate the transport of nutrients and water in plants (the speed of herbicide conduction in weeds is accelerated)

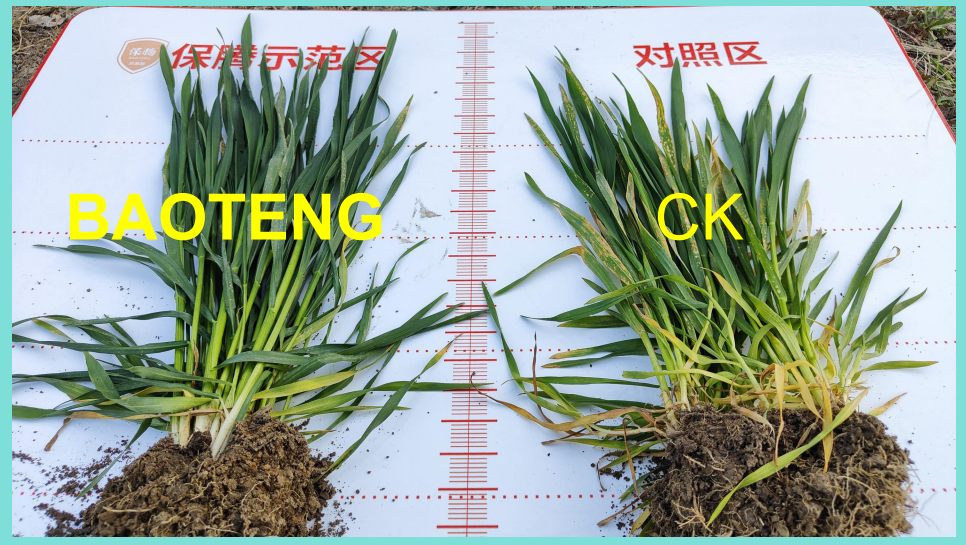
Since the target of herbicides is not crops, the promotion of herbicide absorption will not affect the normal growth of crops

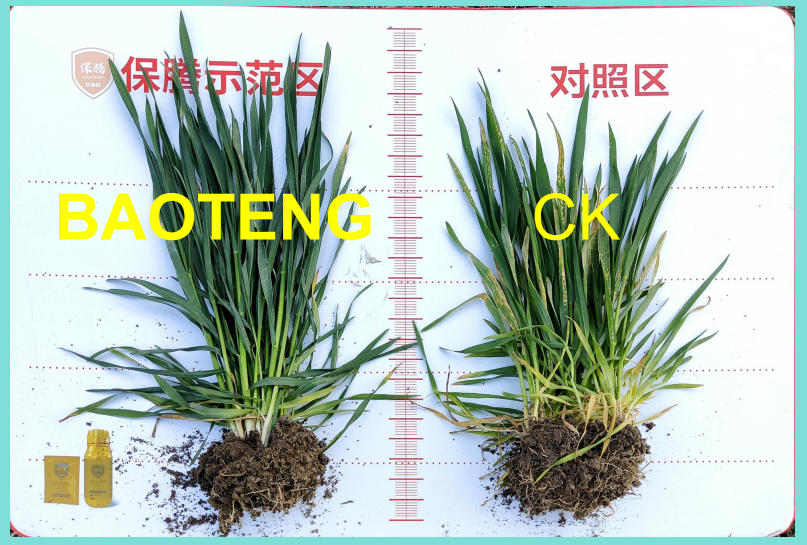
The core reasons for reducing crop damage:

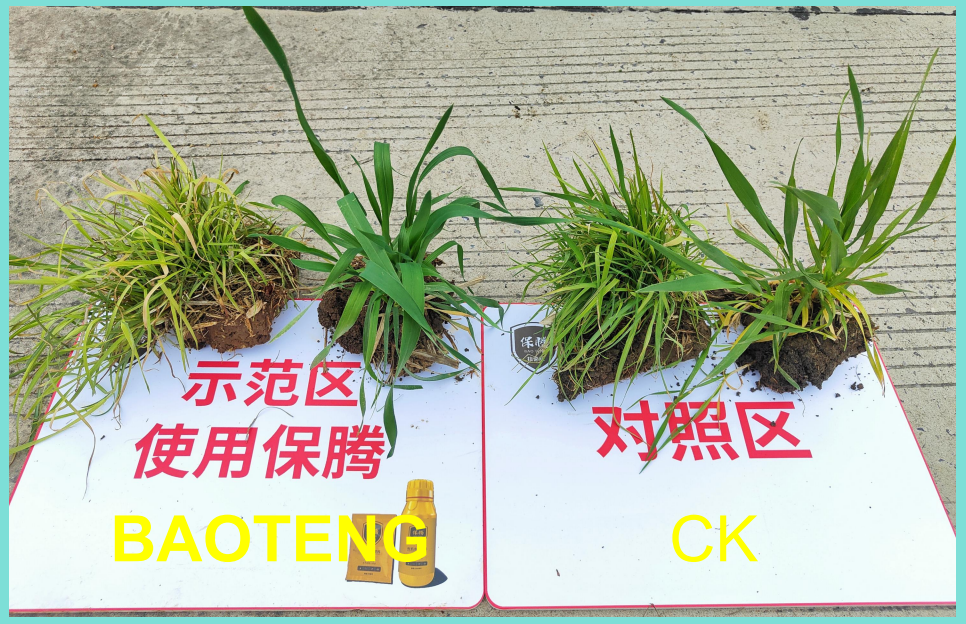
① Herbicides inhibit crop growth, while Baoteng promotes crop growth and alleviates the negative effects of herbicides

② The small molecule peptides in Baoteng ingredients can quickly repair damaged cells caused by herbicides

Can be mixed with all kinds of Herbicides

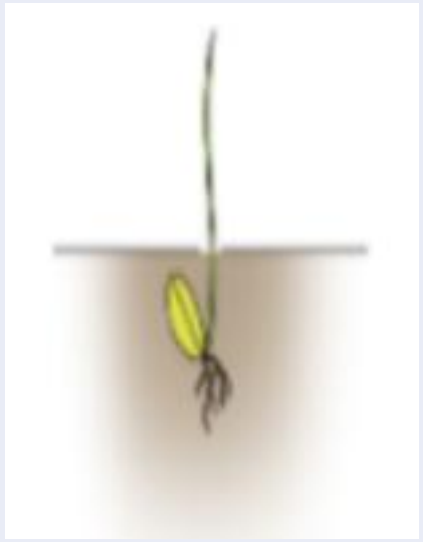






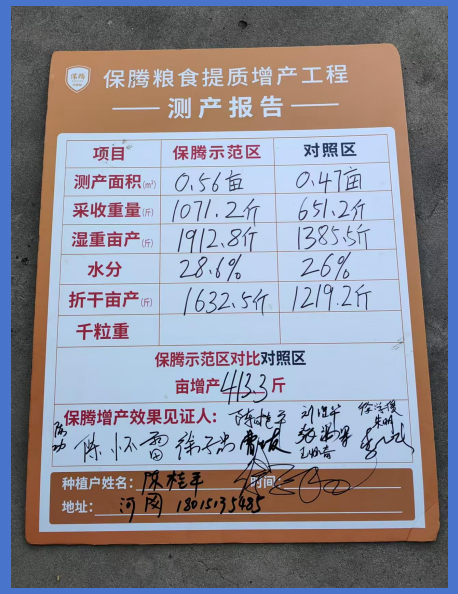
Compared with wheat treated with herbicides alone, wheat treated with a combination of herbicides and Baoteng has fewer dead leaves and stronger plants, which can significantly reduce the occurrence of herbicide damage and diseases.

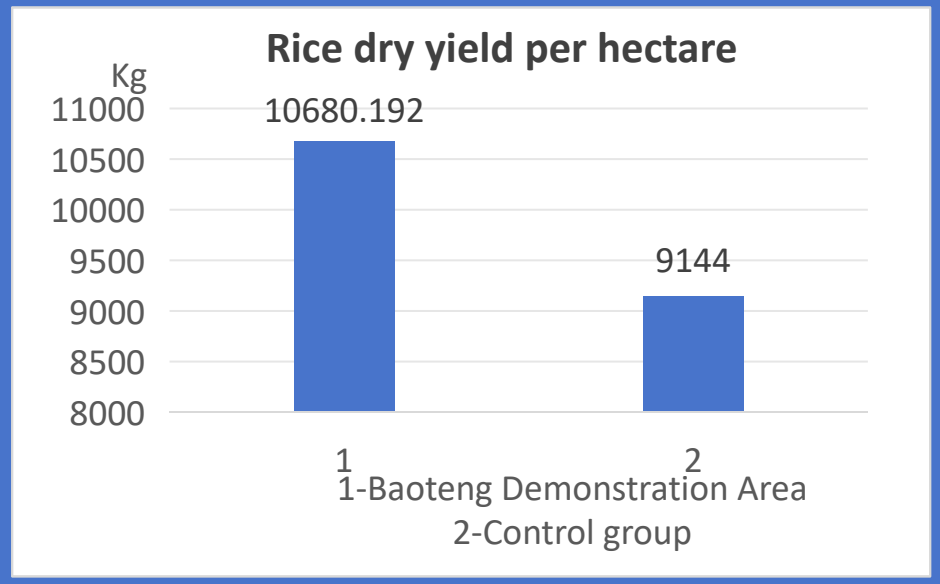
Rice

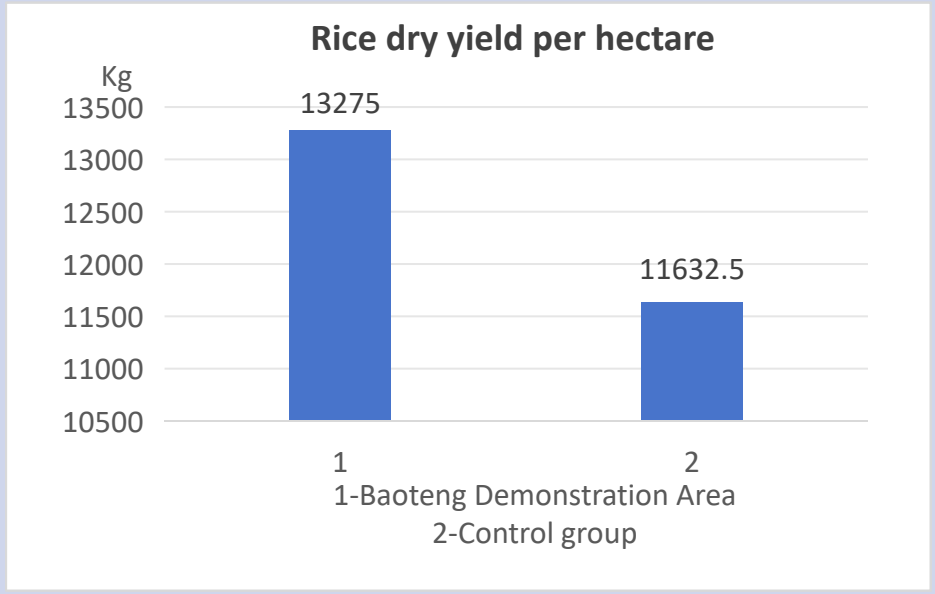
Details				
Growth cycle diagram				
Use period	Before sowing	Tillering stage From transplantation to spikelet differentiation	Booting stage From panicle differentiation to heading	Grouting period From the time when rice ears bloom to the time when grains mature

Use period	Usage	Effect
Before sowing	1. Mixed with seeds 1kg/Baoteng 2ml/water 10-11ml, (can use with seed dressing agent) 2. Dilute 500 times and soak the seeds	1. High germination rate 2. Even seedlings, strong seedlings, good root system 3. Improve the soil around the seeds 4. Provide nutrients that can be directly absorbed by seedlings after four leaves
Tillering stage	450-750ml/ha foliar spray (can use with herbicides)	1. Protect seedlings and prevent herbicide damage 2. Promote herbicide absorption, kill weeds faster and more thoroughly 3. Increase effective tillering, rapid rooting, and increase effective spikes
Booting stage	450-750ml/ha foliar spray	1. Increase the number of grains per ear 2. More ears, more evenly 3. Increase photosynthesis, leaves are wide, thick and upright 4. Stems are thick and resistant to lodging
Grouting period	450-750ml/ha foliar spray	1. Increase thousand-grain weight, and make the grains fuller 2. Extend the functional period of leaves, prevent premature aging, and make the stems mature 3. The grains are bright and beautiful

Actual weight data



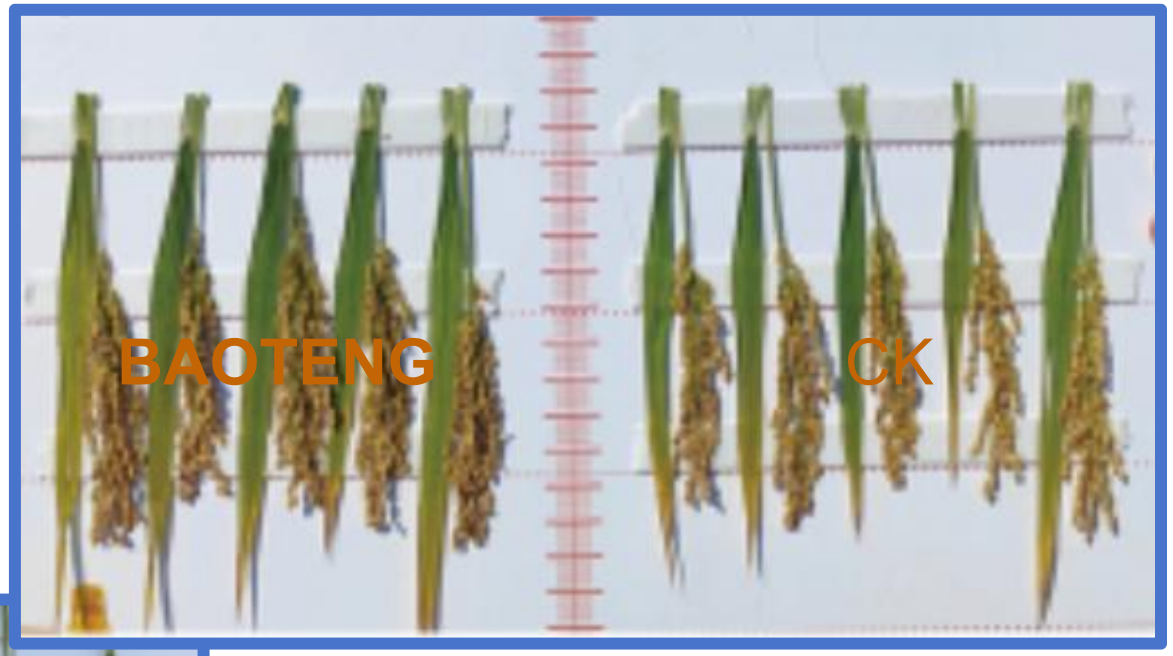


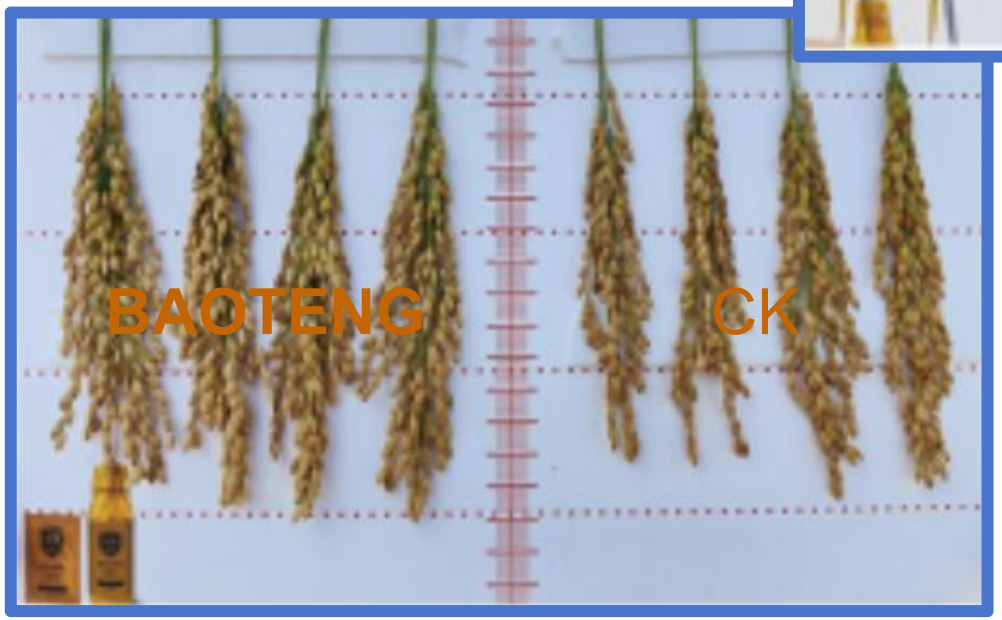


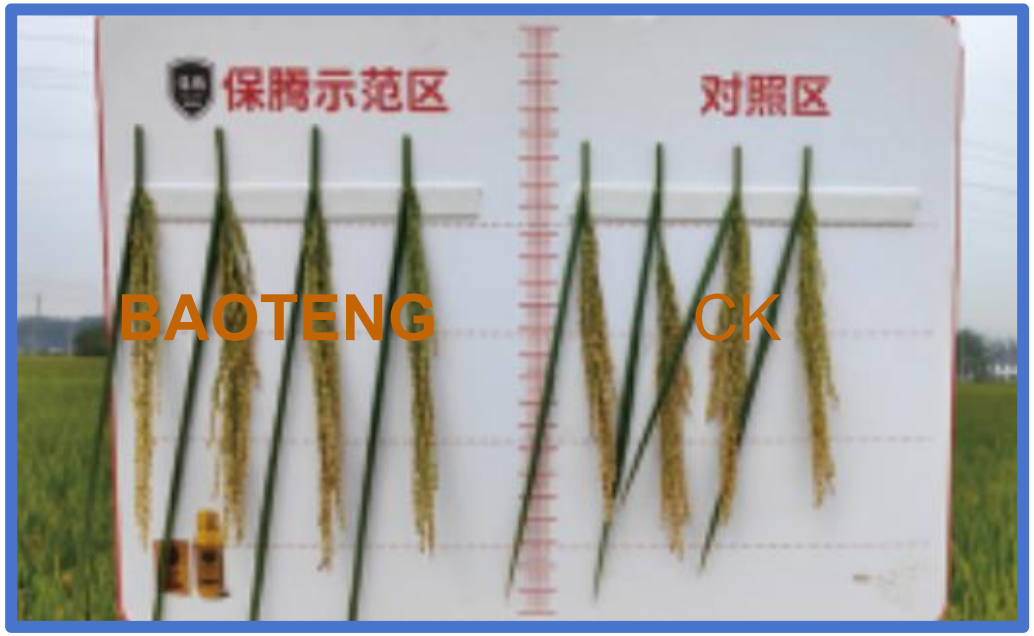
The growth rate of yield reached 16.8%

The growth rate of yield reached 14.1%

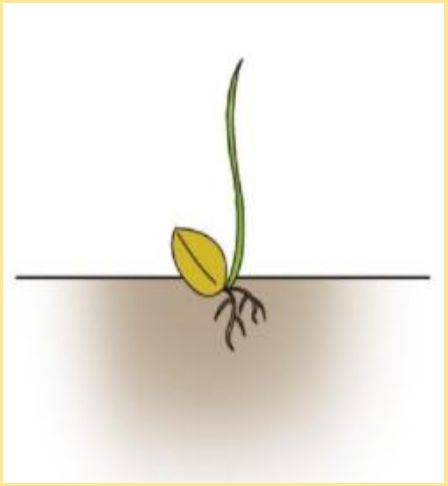
Before and after use





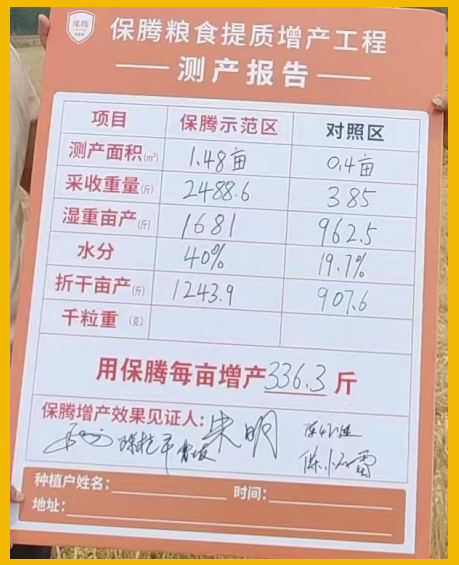


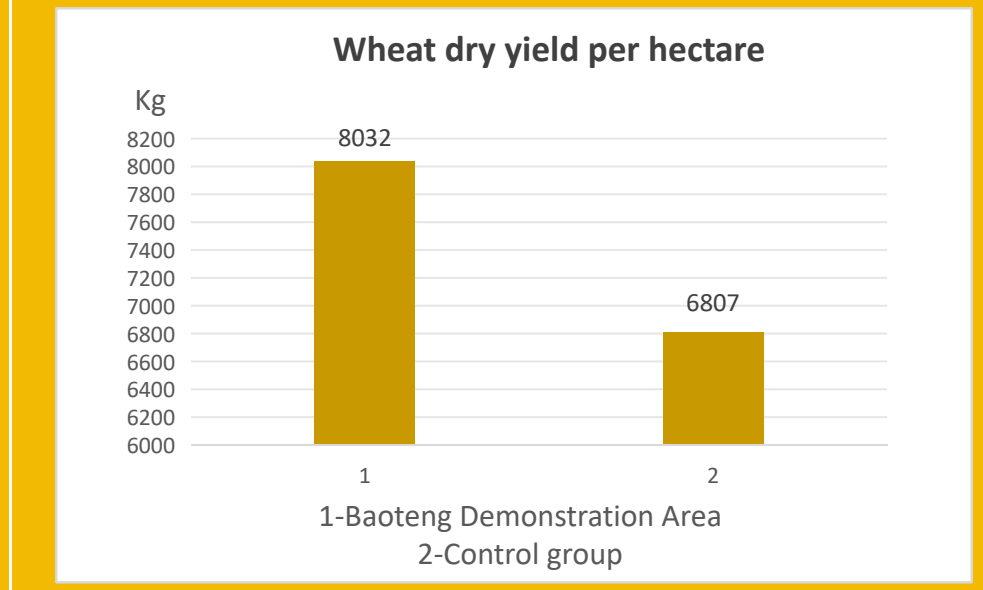
Wheat

Details				
Growth cycle diagram				
Use period	Before sowing	When the first tiller emerges from the leaf sheath about 2 cm	When the last leaf is fully extended, the part covering the young ears swells significantly. When more than half of the ears in the field show this phenomenon	After the wheat flowering period

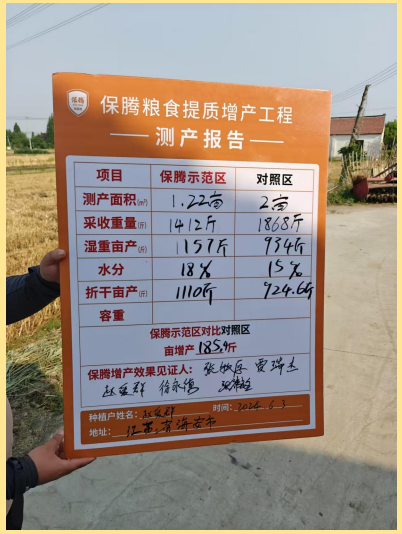
Use period	Usage	Effect
Before sowing	1. Mixed with seeds 1kg/Baoteng 2ml/water 10-11ml, (can use with seed dressing agent) 2. Dilute 500 times and soak the seeds	1. High germination rate 2. Even seedlings, strong seedlings, good root system 3. Improve the soil around the seeds 4. Provide nutrients that can be directly absorbed by seedlings after four leaves
Tillering stage	450-750ml/ha foliar spray (can use with herbicides)	1. Protect seedlings and prevent herbicide damage 2. Promote herbicide absorption, kill weeds faster and more thoroughly 3. Increase effective tillering, rapid rooting, and increase effective spikes
Booting stage	450-750ml/ha foliar spray	1. Increase the number of grains per ear 2. More ears, more evenly 3. Increase photosynthesis, leaves are wide, thick and upright 4. Stems are thick and resistant to lodging
Grouting period	450-750ml/ha foliar spray	1. Increase thousand-grain weight, and make the grains fuller 2. Extend the functional period of leaves, prevent premature aging, and make the stems mature 3. The grains are bright and beautiful

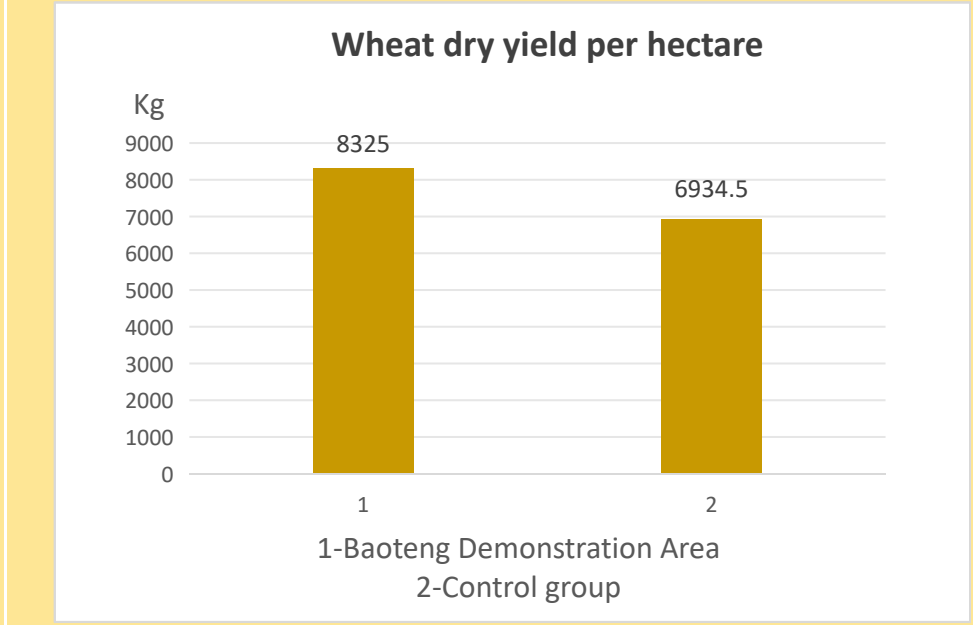
Actual weight data





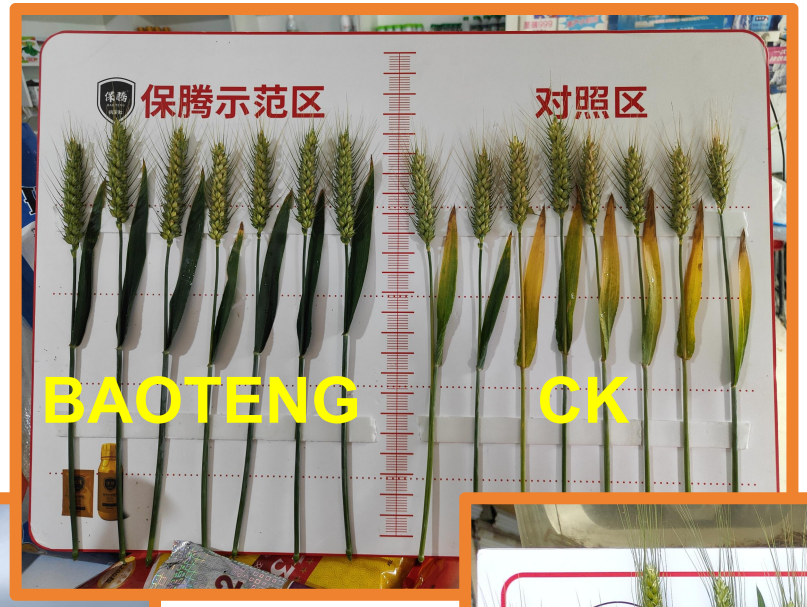
The growth rate of yield reached 18%



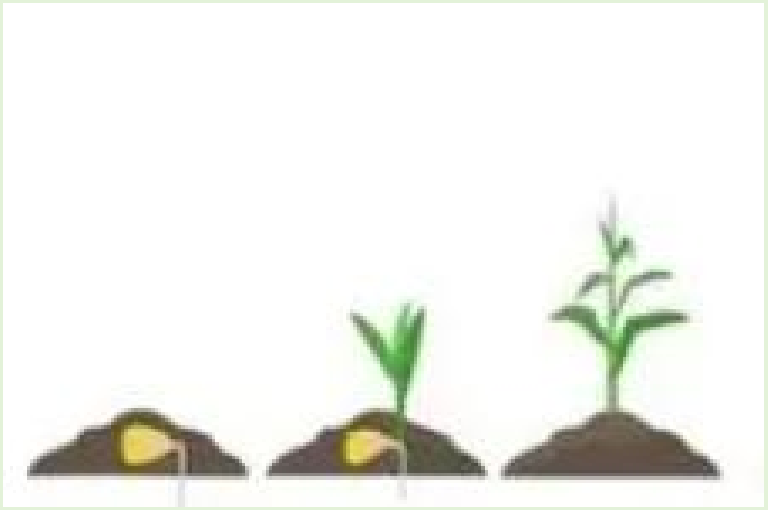


The growth rate of yield reached 20%

Before and after use

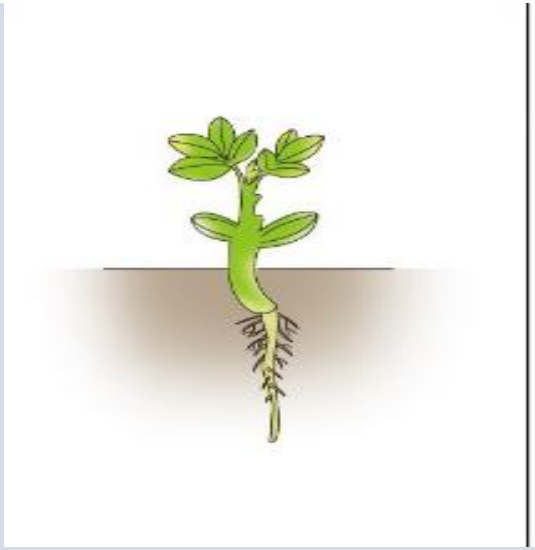
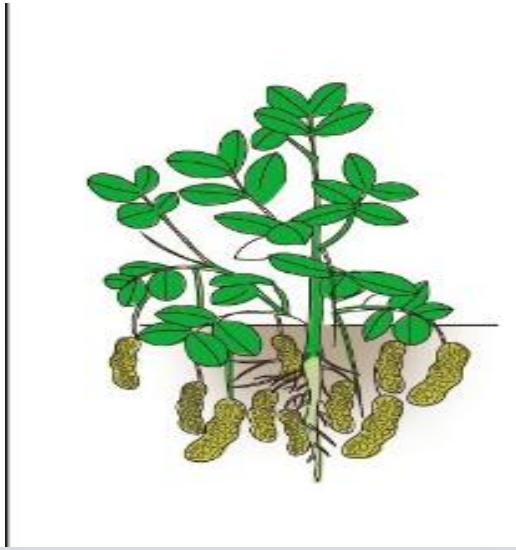


Corn

	Details			
Growth cycle diagram				
Use period	Seedling stage	Small bell mouth period 7-10 expanded leaves	Large bell mouth period 11-14 expanded leaves	Silking period Corn female inflorescence (ear) blooming

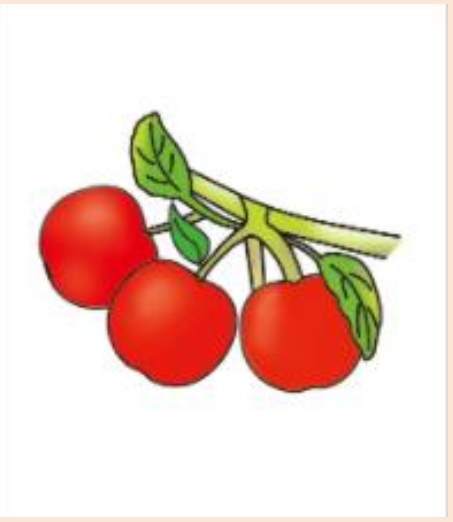
Use period	Usage	Effect
Seedling stage	Mixed with seeds 1kg/Baoteng 2ml	Prevent seed rot, increase germination rate, make seedlings uniform and strong, promote root growth and strengthen seedlings, improve stress resistance during the seedling stage, and ensure nutrients during the seedling stage
Small bell mouth period	750ml/ha	Improve photosynthesis and flood and drought resistance, promote corn nutrition growth and water and fertilizer absorption, and promote root development
Large bell mouth period	750ml/ha	Strong stems resist lodging, leaves are broad, thick and green, disease resistance is improved, and growth is uniform
Silking period	750ml/ha	Promote pollen activity, uniform pollination, dark green and healthy leaves, strong disease resistance, sufficient filling, no bald tips, and heavy cobs

Peanuts

Dtails				
Growth cycle diagram				
Use period	Seedling stage	Cluster stage The period of mass differentiation of flower buds	Flowering and needle-setting period From the time when 50% of the plants have their first flowers bloom to the time when 50% of the plants have chicken-head-shaped young fruits	Fruit expansion period

Use period	Usage	Effect
Seedling period	Mixed with seeds 1kg/Baoteng 2ml	Prevent seed rot, increase germination rate, make seedlings uniform and strong, promote root growth and strengthen seedlings, improve stress resistance during the seedling stage, and ensure nutrients during the seedling stage
Cluster stage	750ml/ha	Many branches, promote root growth and seedling growth, resist drought and waterlogging, effectively increase the formation of rhizobia and capillary roots, and promote water and fertilizer absorption
Flowering and needle-setting period	750ml/ha	Strong roots and seedlings, early flowering, large number of flowers, fast and large number of needles, increased pod setting rate and number of double-kernel fruits
Fruit expansion period	750ml/ha	Improve disease resistance, maintain fruit needle vitality, large fruit, no fruit drop, sufficient filling, white and plump grains

Fruit

Dtails					
Growth cycle diagram					
Use period	Cleaning When cleaning the orchard before and after the dormant period of the fruit trees	Opening Start Planting	Falling ⅔ flowers When two-thirds of the flowers have fallen	Fruit expansion period	Color change

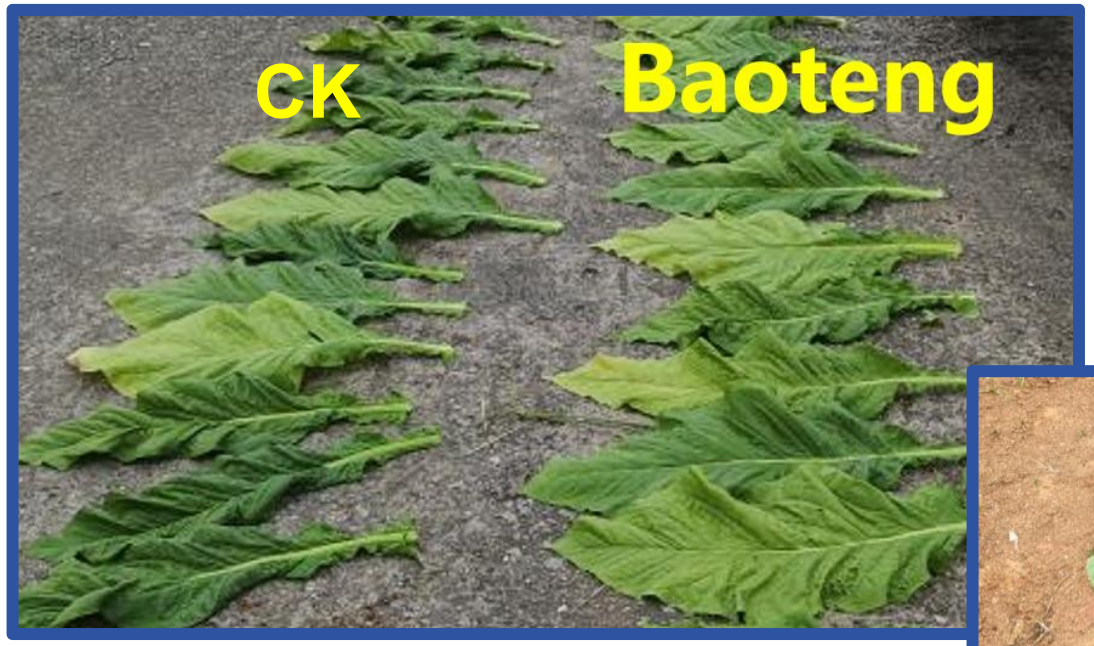
Use period	Usage	Effect
Before flower bud differentiation	Dilute 1000-2000 times	Repair branch and leaf damage, promote branch and leaf nutrient accumulation, prevent frost and resist stress
Opening	Dilute 1000-2000 times	Promote flowering and germination, strengthen green leaves, prevent early spring frost, and quickly restore tree vigor
Falling ⅔ flowers	Dilute 1000-2000 times	Promote the growth of leafy petioles, ensure a balanced leaf-fruit ratio, bloom earlier, have more flowers, and have fewer deformed flowers
Fruit expansion period	Dilute 1000-2000 times	High fruit setting rate, good fruit shape, uniform expansion, increased single fruit weight, prevent fruit from falling, easy to manage
Color change	Dilute 1000-2000 times	Prevent fruit cracking, color and sweeten, increase sugar and dry matter accumulation, market them uniformly, and extend the picking period and shelf life

Tobacco

Dtails			
Growth cycle diagram			
Use period	7-10 days after transplanting	Cluster period It refers to the period from seedling to plant height of 30-35cm, with 12-16 leaves unfolded (depending on the variety)	10-15 days before topping

Use period	Usage	Effect
7-10 days after transplanting	750ml/ha	Promote root development, drought and waterlogging resistance, uniform growth, reduce small, yellow and weak seedlings
Cluster period	750ml/ha	Strong root system, improved drought and disease resistance, good tobacco opening, increased leaf quantity, dark green and wide leaves
10-15 days before topping	750ml/ha	Promote the natural stratification and yellowing of tobacco leaves, make the leaves thicker and wider, make the tobacco leaves easier to roast, have sufficient oil content, and not burn the edges, thus improving the grade

Before and after use

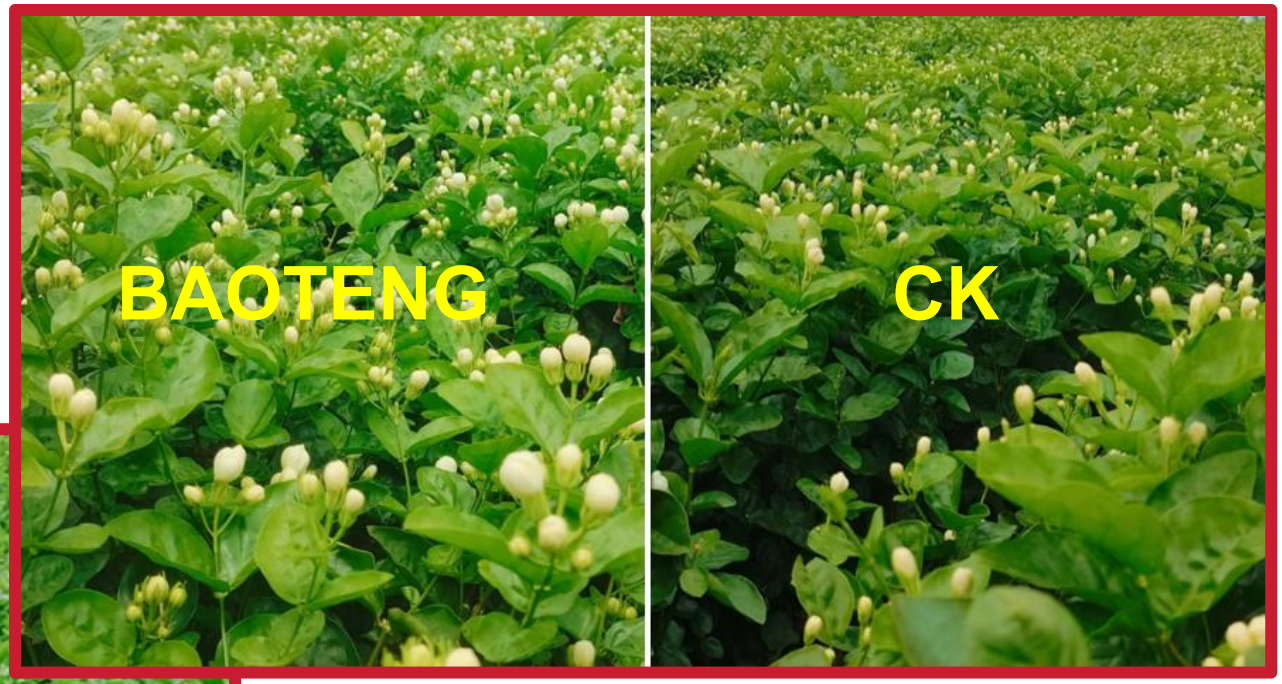


Flowers

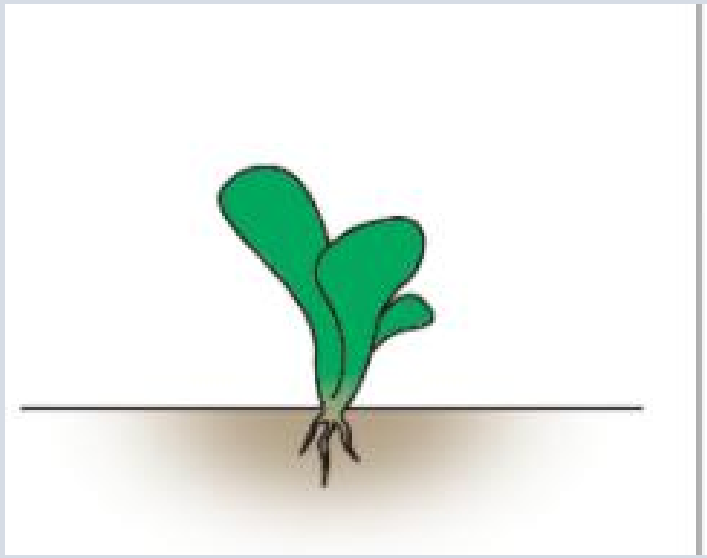
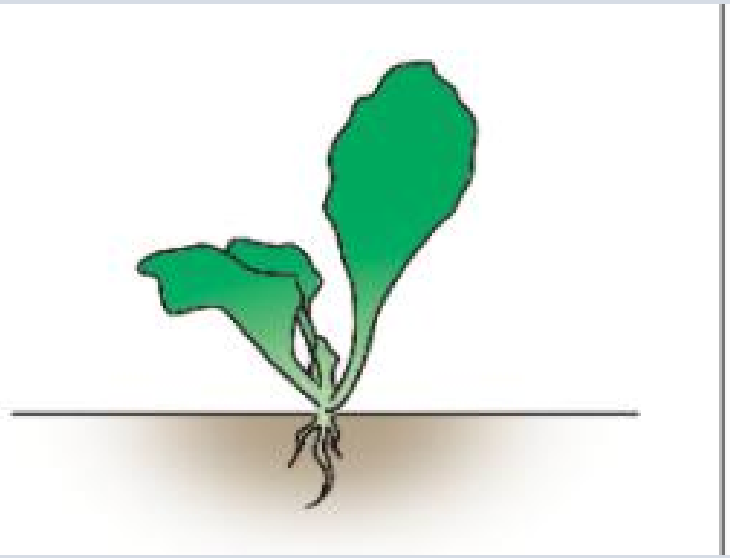
Dtails			
Growth cycle diagram			
Use period	Before flower bud differentiation	Early flowering period	7-10 days interval
		每茬花用两遍/ Use twice per flower	

Use period		Usage	Effect
Before flower bud differentiation		30-50ml/15L water	Promote the germination of new branches and leaves, enrich the taproot and capillary roots, and differentiate flower buds early and in large quantities
Use twice per flower	Early flowering period	30-50ml/15L water	The leaves are dark green and thick, the plant is strong, there are many branches, the flower buds are large and numerous, and it is resistant to adversity and disease.
	7-10 days interval	30-50ml/15L water	Concentrated flowering period, easy to harvest, long flower stalks, large number of flowers, heavy single flower, few deformed flowers, long flowering period

Before and after use



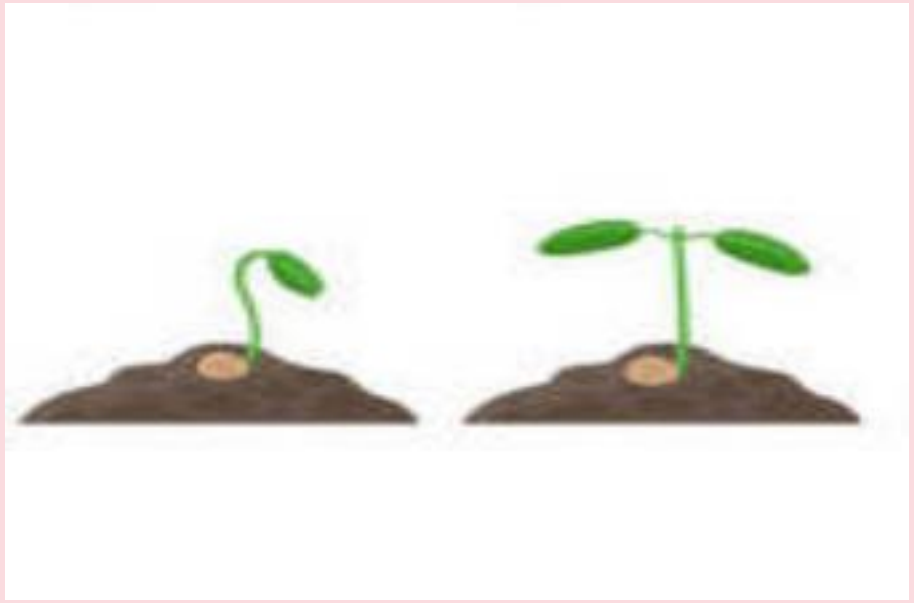
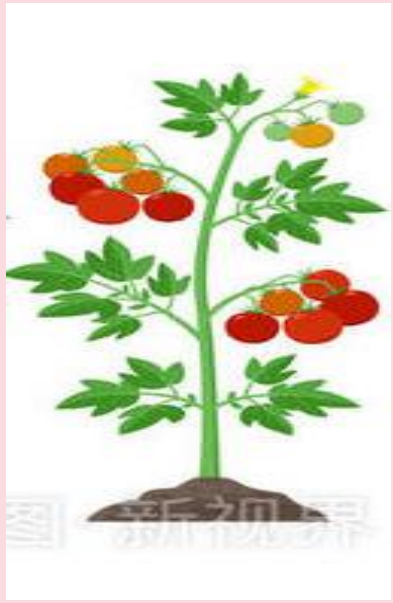
Leafy vegetables

Details			
Growth cycle diagram			
Use period	15-20 days after transplanting	Cluster period All 5 to 8 leaves of the first leaf ring are fully expanded	Rosette stage The vegetable grows eight true leaves and begins to form a heart

Use period	Usage	Effect
15-20 days after transplanting	30-50ml/15L water	Promote rooting, enhance stress resistance, even growth, alleviate the problem of small and weak seedlings, and improve survival rate
30-50ml/15 water	30-50ml/15L water	Rich in taproots and capillary roots, large clusters, even growth, improved disease resistance, thick and dark green leaves
Rosette stage	30-50ml/15L water	Promotes root growth and seedling growth, leaves are dark green and thick, the plant grows well, the bulbs form early, the bulbs are large and firm, and the plant is resistant to stress and disease.

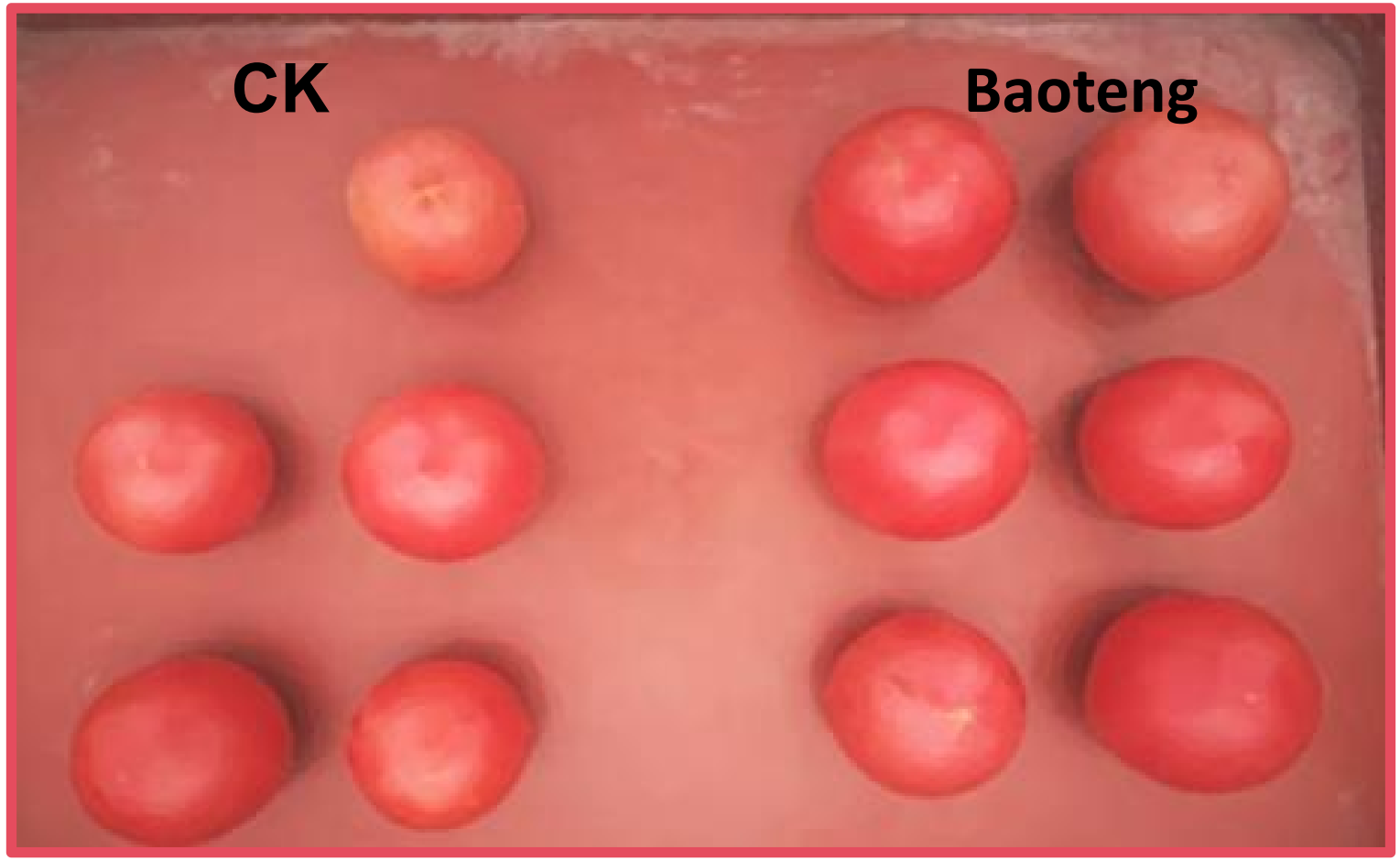
Before and after use

Tomato

Details				
Growth cycle diagram				
Use period	Seedling stage From the appearance of the first true leaf to the appearance of the first inflorescence bud	Early flowering period	Fruit expansion period	Color change period

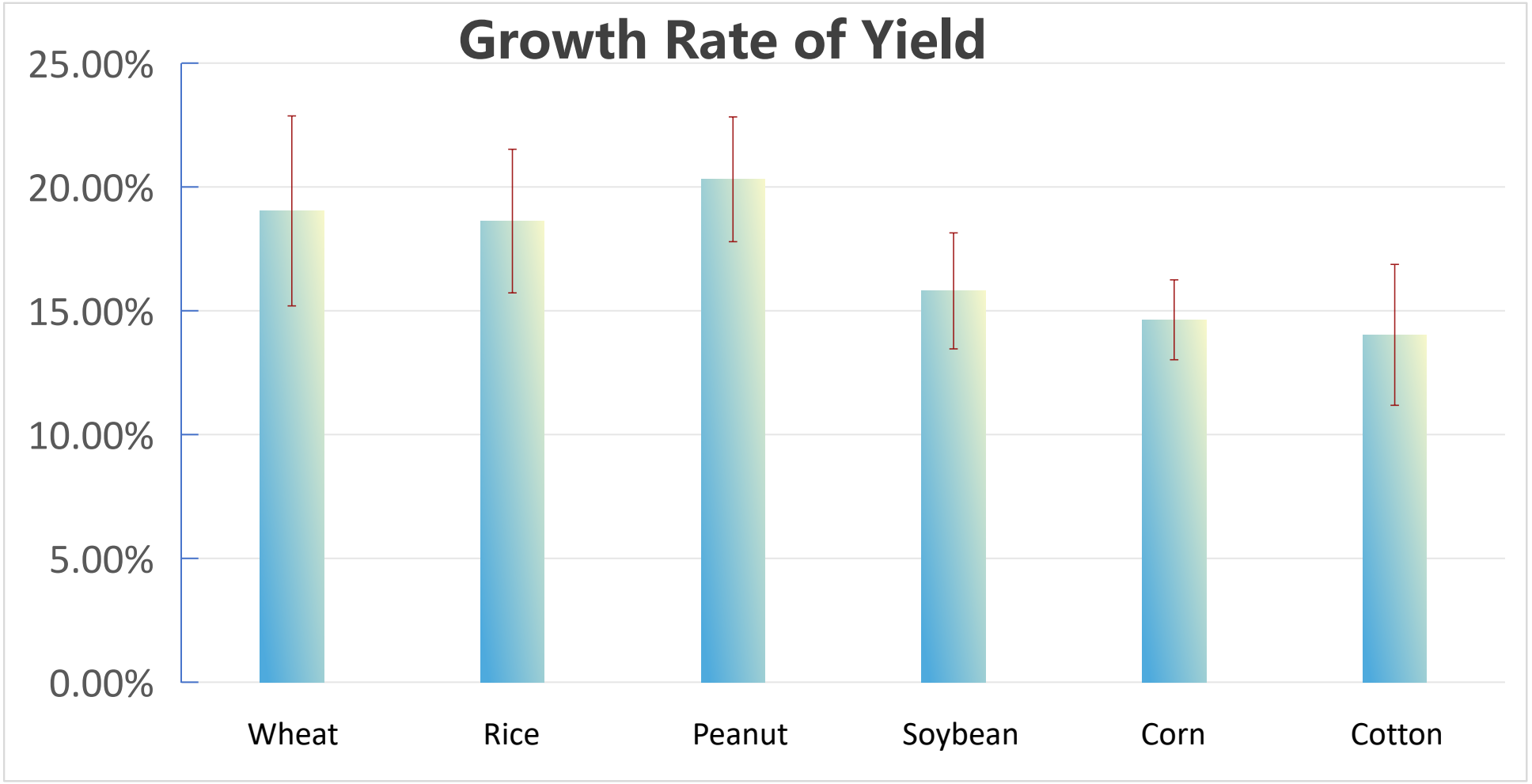
Use period	Usage	Effect
Seedling stage	400-500 times dilution for foliar spraying	1. Healthy growth 2. Thick leaves with dark green color 3. Thick stems 4. Well-developed root system
Early flowering period	400-500 times dilution for foliar spraying	1. Bloom evenly 2. Increase fruit setting rate and preserve flowers and fruits 3. Grow strong and healthy 4. Leaves are thick and dark green
Fruit expansion period	400-500 times dilution for foliar spraying	1. Promote fruit enlargement 2. Increase fruit weight 3. Regular fruit shape 4. Thick leaves with dark green color
Color change period	400-500 times dilution for foliar spraying	1. Promote fruit color change 2. Increase fruit gloss 3. Delay plant aging 4. Leaves are thick and dark green

Before and after use



NOTE:

If you cannot see the overall effect after use, you must go to the field for sampling and comparison


Growth Rate of Yield
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%
Wheat
Rice
Peanut
Soybean
Corn
Cotton