



*The Power from Ocean
The Source of Health*



TABLE & WINE GRAPE

Leili Balanced Farming Solution



BEIJING LEILI MARINE BIOINDUSTRY INC.

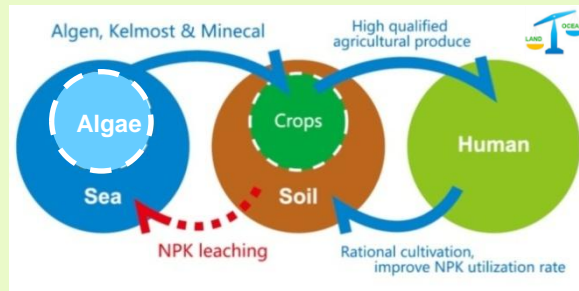
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BLUE TECHNOLOGY SYSTEM OF BIO BALANCE

Leili Algal Balanced Farming(LABF) System is a ecological system based on biology and ecology. It takes sea water, algae, soil, crops and people as the study target, applies modern biology technology to improve the imbalance environment between ocean and land, solve the soil ecology imbalance problem, regulate plant physiological balance, enhance abiotic and biotic stress tolerance, correct the crop nutrient deficiency and induce crop resistance against diseases, in order to achieve crop balanced growth, secure the quality and nutrition of agricultural produce, promote human health, and establish a harmony biological cycle.

- Ecological balance of soil
- Physiological balance of crops
- Strong crops' own immune system



Raw material
(*Sargassum* sp.)

Enzyme screening

Bio-enzymolysis tech

Low temperature tech

Active small molecules

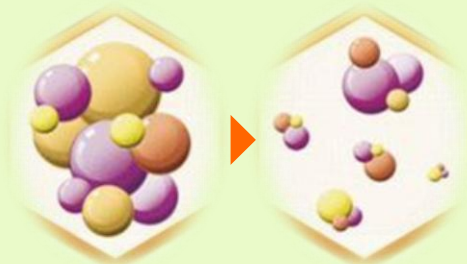


ENZYMOLYSIS OF WHOLE ALGAE

FEATURES of *Sargassum* sp.

- ◆ Strong vitality & reproducitivity (renewability)
- ◆ Abundant branches, spores & high cytokinin content
- ◆ Rich in algal active substances natural hormones
- ◆ Rich in rare minerals (alginic acid content, Iodine, high potassium content, rare mineral content)

Enzymolysis of whole algae is **WORLD'S LEADING technology!**



Under mild reaction conditions, Enzymolysis technology is more efficient than chemical and physical method without destroying the premise of nutrients and active substances. Enzymolysis technology can maximum retention algae active ingredients.

PATENT TECHNOLOGIES OF WHICH WE ARE MOST PROUD

Products can get **more and more fully active substance** through enzymolysis of whole algae technology.

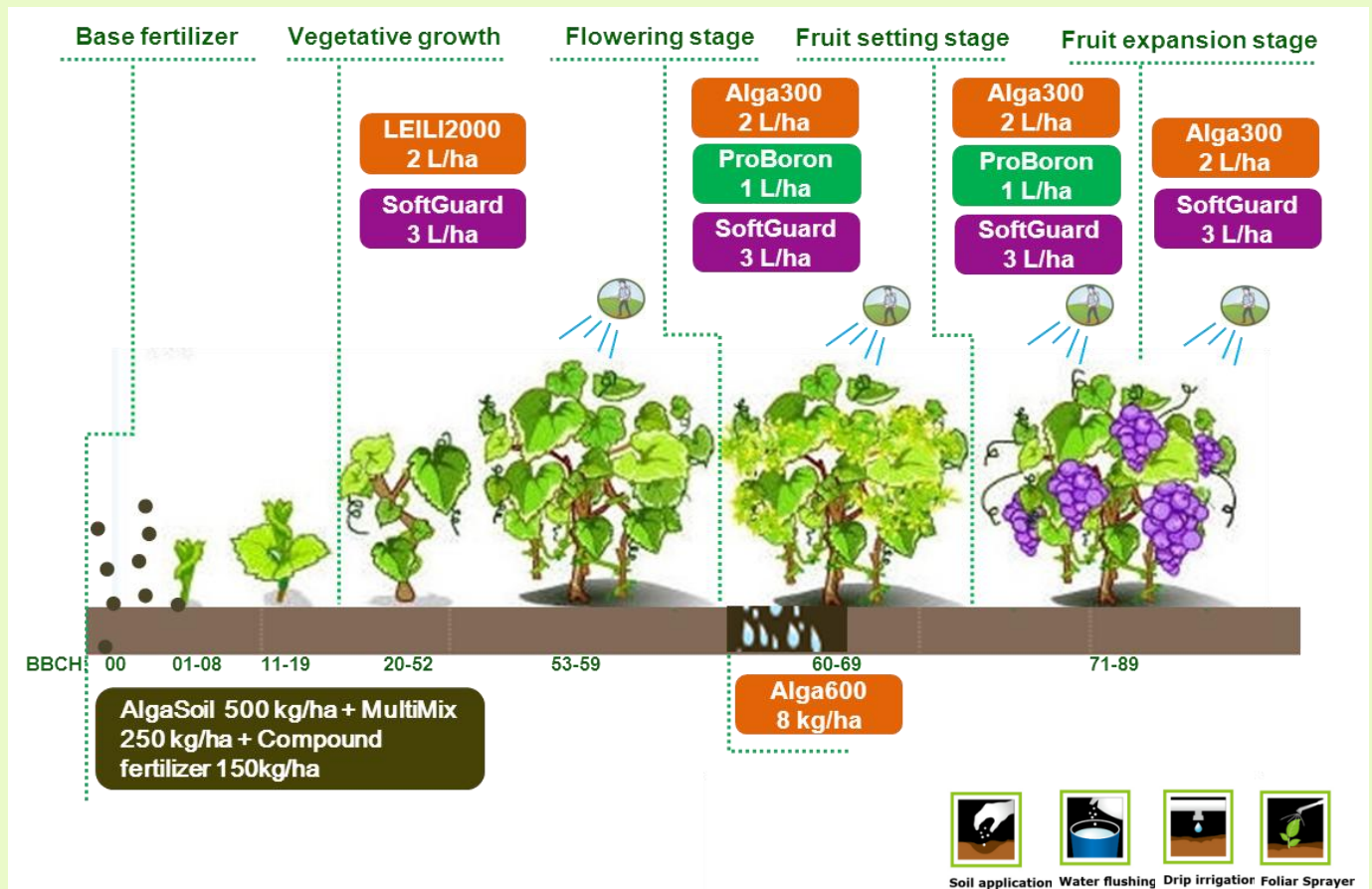
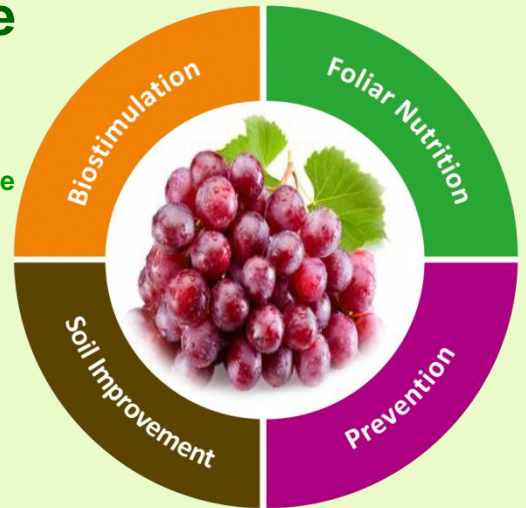
- ✓ ALGENE—Algal endogenous hormone and secondary metabolite promote crops' physiological balance and stress tolerance.
- ✓ KELMOST--Algae polysaccharides form micelle structure, keep water and fertilizer holding, and promote micro-ecological balance in soil
- ✓ MINECAL--Sea minerals and trace elements are combined to be chelating materials which can be absorbed as organic molecules by crops.

Precise Algal Biostimulant Solution

Basic Application on Table Grape

BENEFITS

- ◆ Improve the performance of chemical compound and improve soil structure.
- ◆ Promote more branches, early fruit setting
- ◆ Promote early ripening and uniform fruit with high sugar content
- ◆ Induce resistance to grape downy mildew and powdery mildew



- Soil Improvement: AlgaSoil, MultiMix, ChitinSoil
- Foliar Nutrition: MicroRich, ProBoron, AminoTotal, ProZinc, CaBoron
- Biostimulation: Alga 600, Alga300(++), LEILI2000, Algreen, RootMost
- Prevention: SoftGuard(++), ProSilicon, AmiCa
- Seed Treatment: Alga600, Alga300, SoftGuard



Soil application Water flushing Drip irrigation Foliar Sprayer

TABLE GRAPE

MANY FIELD TRIALS DEMONSTRATED THE EFFECT

PRODUCTS & TREATMENTS

Variety: Red globe, muscat grape, cold honey grape

Panting Density: 2,000 plants/ha

Treatment:

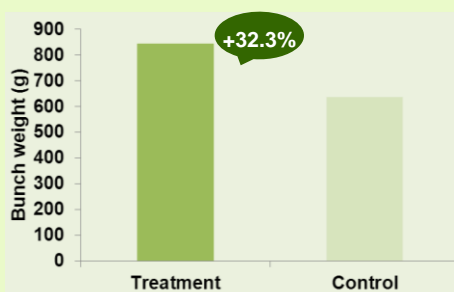
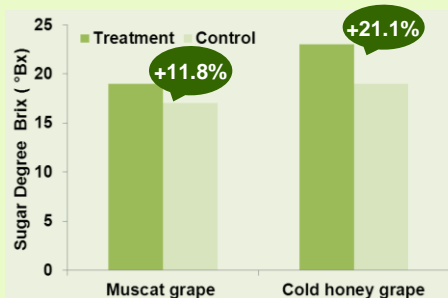
- Root fertigation of Alga300 (1 L/ha) and SoftGuard (5 L/ha) three times after post-harvest pruning every 15 days.
- Foliar spray of Alga300 (0.25 L/200L) at the 5-10 cm shoot stage, 20-25 cm shoot stage, during the inflorescence development and during the berry development.

Control:

Conventional fertilization

RESULTS

- ✓ *Uniform fruit with high sugar content, early ripening (TEN days in advance)*



- ✓ *High yield and high income*

RESULTS

- ✓ *Thick and dark green leaves*



- ✓ *More new and strong roots*



- ✓ *Promote the inflorescence growth*

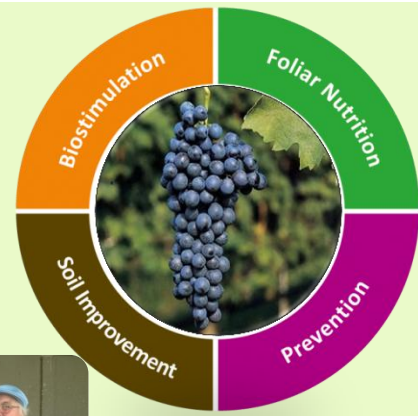
Increases the inflorescence growth by 16% and bunches growth by 18% compared to the control treatment.



Table grape	Yield of (kg/ha)	Increased yield (kg/ha)	Price (\$/kg)	Gross income (\$/ha)	Treatment cost (\$/ha)	Production cost (\$/ha)	Net income (\$/ha)	ROI (%)
Treatment	42,170.6	10,300.4	1.5	63,255.9	444.0	12,500.0	50,311.9	34
Control	31,870.2			47,805.3	250.0		35,055.3	

WINE GRAPE APPLICATION

EL Growth Stage		Product	Rate	Application
1	Winter Bud	Double Win	200-300kg/ha	Broadcast
12	10cm Shoots	Double Win	25-50kg/ha	Fertigation
16	10 Leaves out	Alga300++ and MicroRich	2-3L/ha	Foliar
27	Fruit set	Alga 300	2-3L/ha	Foliar
		Amica	1.5-2L/ha	Foliar
32	Bunch closure	Alga 300	2-3L/ha	Foliar
		Amica	1.5-2L/ha	Foliar

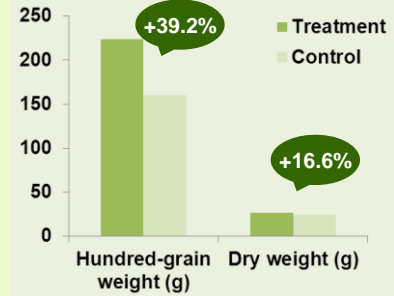
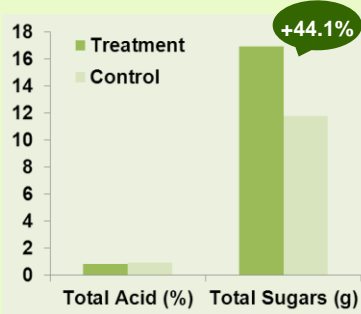


BENEFITS

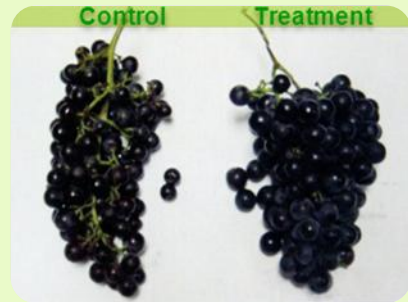
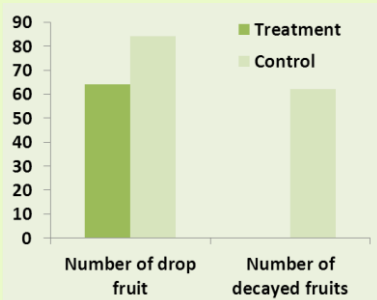
- ◆ Rapidly correct calcium deficiencies and prevent crops from the related physiological disorders
- ◆ Enhance quality, firmness and shelf-life of wine grape
- ◆ Form suitable sugar-acid ratio to improve bright color and texture of wine grape
- ◆ Promote nutrients accumulation and balance, improve growth vigor and stress tolerance
- ✓ Increase solid matter and sugar content



- ✓ Increase fruit weight, promote branches to be mature and flower bud differentiation



- ✓ Firm and healthy fruit with bright color



The service include wine grapes physiological and ecological diagnosis, solution customization, building standardized balanced agriculture demonstration base, training of planting technology, technical guidance through the whole process of planting, establishing plant protection file after harvesting as well as agricultural information consulting etc.

Alga600 (soluble ALGAL EXTRACT powder) and its function at eight key stages of plant growth

Which problems can be solved by Alga600?

- Unbalance of crop natural hormones, uneven plant vigor, few flowers and malformed fruits.
- Soil acidification and compaction, rot root, weak seedling, yellow leaf.
- Soil will be gradually infertile by applying chemical fertilizer, weak resistance.



- Nursery period: avoid damping off and other disease in this period. Keep uniform strong seedlings without over-growth.
- After transplanting: recover fast, no dead seedlings, avoid soil-borne diseases.
- Vegetative period: short internode, thick strong stems, thick leaves, balanced vigor, disease resistance.
- Flowering period: early flowering, good bud differentiation, big and bright flowers, high flowering ratio, less falling flowers.
- Fruit setting period: high fruit setting rate, and prevent malformed fruit.
- Expanding period: fast expanding, uniform fruit size, high organics content, uniform maturity.
- Color transfer period: uniform and bright color, good taste, prevent sunburn and abnormal fruit.
- Harvest period: high yield and sugar content, big single size, late aging, stores well.

Alga300 (35% CONCENTRATED seaweed extract liquid) solve three major problems

BENEFITS

- ✓ Enhance root growth
- ✓ Increase resistance to stress
- ✓ Stimulate more flowers
- ✓ Improve fruit setting and uniform fruit with bright color and great taste
- ✓ Increase sugar content

Huge losses caused by abiotic stresses

1 Physiological disorders of crops

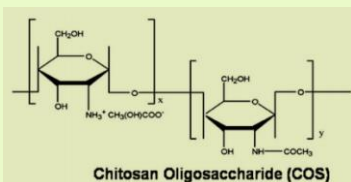
3 Poor quality of agricultural products



SoftGuard improve plant IMMUNITY as an "armor"



Crop Immunity Enhancer (3000D)



BENEFITS

- ✓ Enhance disease tolerance to grape powdery mildew (*Uncinula necator*) and downy mildew (*Plasmopara viticola*)
- ✓ Inhibit the systemic propagation of viruses and viroids throughout the plant
- ✓ Enhancing the ability of resistance nematode diseases
- ✓ Accelerating plant wound healing

Modes of action of COS

COS has higher antimicrobial properties than chitosan and is presumed to act by disrupting permeabilizing the cell membranes of bacteria, yeast and fungi. COS is relatively non-toxic to mammals. Some of the pathways COS appears to affect include sensing, signalling, and the composition of the cell membrane.

