



THE FIRST EDITION

BIOPHILIC

BY BIOPHILIC AGRI CARE

THE ART OF FERMENTATION

Fermentation is a metabolic process that produces chemical changes in organic substrates through the action of enzymes. It occurs in yeast and bacteria, and also in oxygen-starved muscle cells, as in the case of lactic acid fermentation.

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Biophilic Private Limited

AQUIS ORGANIC FERTILISER

PAVING THE WAY TO GREEN AMMONIA AND LOW CARBON FERTILISER

Proudly Singapore

LACTO TECHNOLOGY BREAKTHROUGH

We uses proprietary Zero-Antibiotic, Zero-Growth Hormone manure of poultry making it rich in minerals and trace elements. Fermented under a strict quality controlled production system, a lactobacilli blend of beneficial microbes is added to the formulation augmenting and strengthening the property of Biophilic Organic fertiliser.

Our Organic Fertilizer are essential for promoting environmental sustainability as they do not leave any negative impact on the environment. They are a key source of providing essential nutrients to plant and nourishing soil as well. They are highly preferred among farmers, growers and landscapers due to its non-toxicity and does not contain any chemicals which makes them different from conventional ones.

Healthy Poultry with >3,000 Bags of Lactobacillus Feed/ Day



Daily from our farm

Poultry from our own farm is fully fed with lactobcillus formula supplements that in turn produces chicken droppings as the source of our fertiliser

TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION
Appearance	Black
pH Value (1:9)	7.0
Electrical Conductivity	12 mS/cm
Total Nitrogen (as N)	3.0%
Total Phosphorous (As P2O5)	1.5%
Total Potassium (As K2O)	1.0%
Total Boron (As B)	70 mg/kg
Total Calcium (As CaO)	610 mg/kg
Total Magnesium (As MgO)	490 mg/kg
Total Copper (as Cu)	100 mg/kg
Total Manganese (as Mn)	500 mg/kg
Total Iron (as Fe)	1500 mg/kg
Total Zinc (as Zn)	540 mg/kg



THE FUTURE OF GREEN AMMONIA

Green Ammonia is intended to be used in the production of carbon-neutral fertiliser products, decarbonising the food value chain, and also has the potential as a future climate neutral shipping fuel.



Crop Safe, Research Proven, Farmer Trusted

- Engineered with Lactobacillus Technology
- Fully Fermentation Technology
- Low Carbon Footprint
- C/N Ratio **25:1**
- High in Humic Acid
- pH Level 7
- Supplies beneficial microbes – Biologically Active
- Poultry Manure with Lactobacillus 10⁶ CFU/g
- Proven No Seedling Burn
- Reduce Water Usage
- Soil Phyto Remediation
- Strengthen resistance to disease
- Complete long term feed
- Versatility – Can be used for almost all kinds of plants and all kinds of soil

FULL FERMENTATION PROCESS: >3 MONTHS

Ingredients: Zero-Antibiotics, Zero growth hormone Poultry Manure, Plant Compost, Water, NH₄NO₃, P₂O₅ and K₂O, Buffered and Chelated.

Hand-packed: 55 Litres/ Non-woven bag
Suitable for All Crops, Trees, Plants, Flowers and Aquatic Plants

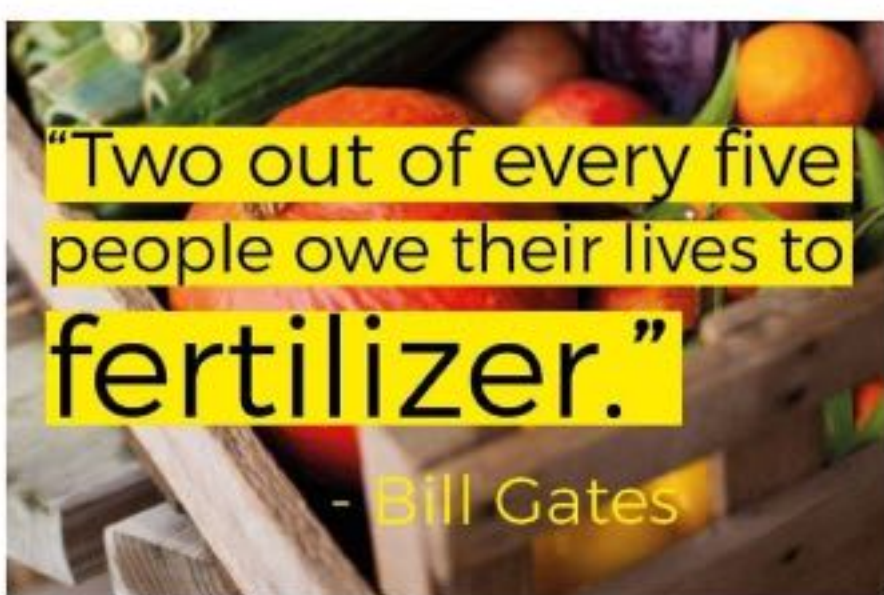




#FeedingLife

fertilisers are critical for sustaining life on this planet, feeding crops, farming, people, economy and a sustainable future

Why We Need Fertilisers



Fertilisers are food for the plants that feed us


LACTO FERTILISER IN SOIL FERTILITY AND SUSTAINABILITY

A factor of key importance to soil quality is the condition of the micro flora in the soil. Lactobacilli play a major part in this regard. They take a significant share in the fertility and quality of the soil. Biophilic's microbiologist discovered these connections in the tropical regions with the most lactobacilli in the topsoil also have the highest soil fertility. Wherever lactobacilli are prevalent in the soil, the soil is healthy. There is neither foul-smelling decomposition nor any formation of pathogenic germs. Responsible for the production of lactic acid, these bacteria also brake down the nutrients in the soil and thus make them available to the plants.

The lactobacilli also fulfil an important task for the mycorrhiza, the area around the fine roots of the plant. They are the gateway from the soil into the plant, so to speak. The lactobacilli transfer the broken down nutrients to the plant here and keep away harmful substances at the same time.

The natural cycle of materials from growth and ripening to the decay, the rotting and the formation of humus, which in turn serves as natural nutrition for the plants would be impossible without micro-organisms.

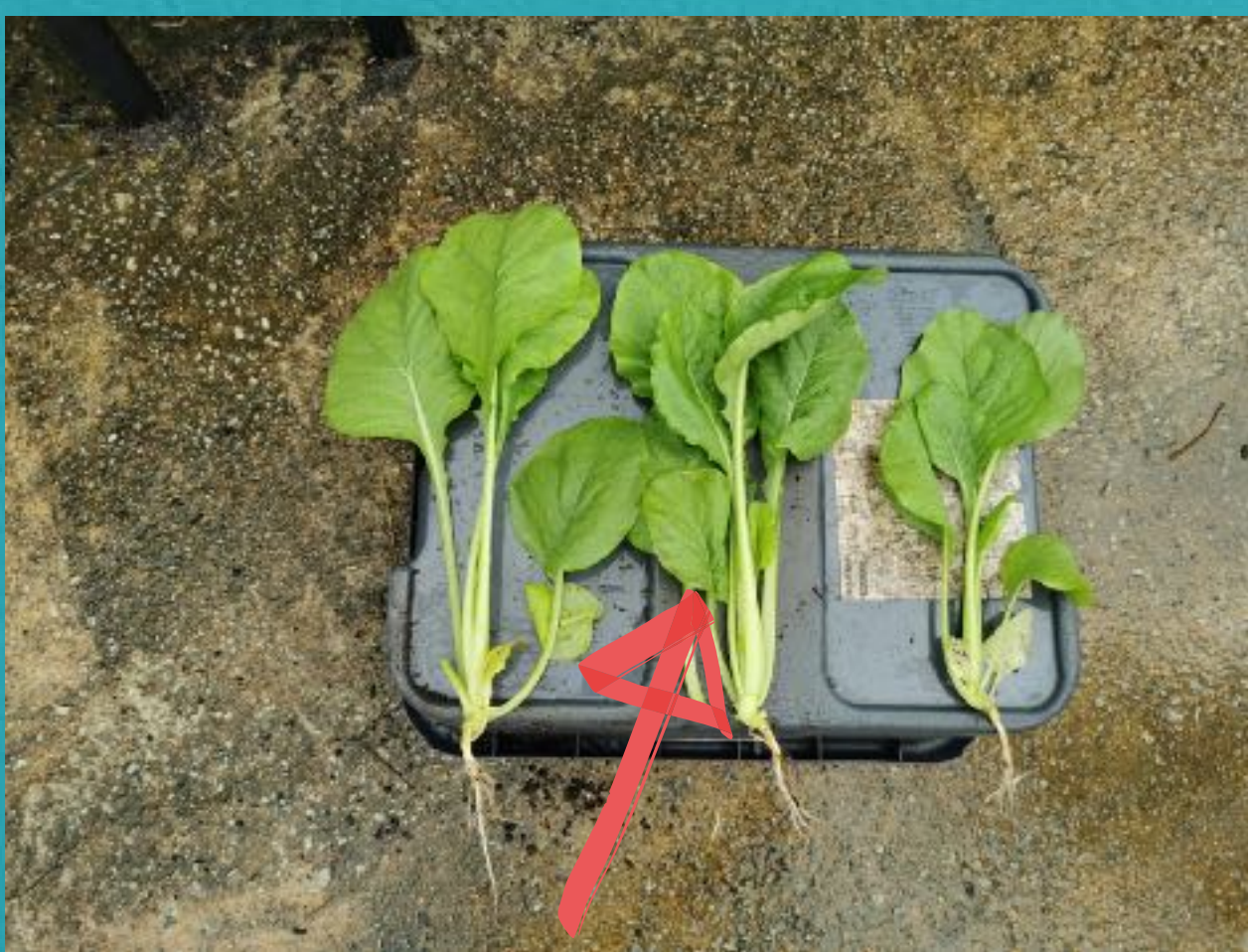
AQUIS FOR SUSTAINABLE FARMING

DESCRIPTION(S)	CHEMICAL FERTILISER	ORGANIC FERTILISER	AQUIS FERTILISER 
MacroNutrients: N, P, K	✓	✓	✓
MacroNutrients: S, Mg, Ca	Nil	✓	✓
MicroNutrients: Fe, Mn, B, Cl, Zn, Cu, Mo	Nil	✓	✓
Zero Antibiotics	✓	?	✓
Zero Growth Hormones	✓	?	✓
Contains beneficial microbes	Nil	?	✓
Contains Lactobacillus	Nil	?	✓





GROWTH RESULTS



Centre Stalk using Aquis

Control:
 C 5150g
 T-5740g
 E. 8010g
 to G(A)

DESCRIPTION(S) : Leafy Greens grown in Vegepod (2mL x 1mL)	CHEMICAL FERTILISER	UNTREATED ORGANIC FERTILISER (Control)	AQUIS FERTILISER
Day 0 to 7 Seedling to Germination	Fast Growing, inconsistent and height	Inconsistent sizes and height	Consistent sizes and height
Day 8 to 15	Signs of Pre-mature	Signs of Leaf yellowish	Consistent, large leaves buds
Day 16 to 21	Signs of Leaf yellowish, deficiency in nutrient, needs heavy watering, topping of fertilizer, insects prone	Needs heavy watering, topping up of fertilizer, insects prone	Consistent, minimum watering, no top up of fertilizer, no signs of insects
Day 22 to 28	Stunted growth of leaves, needs heavy watering, more insects found, topping up fertilizer	Stunted growth of leaves, heavy watering, more insects found, topping up fertilizer	Healthy shine leaves, consistent growth, minimum watering, top up fertilizer once
Day 29 to Day 32	Leaves looks dull, Signs of mildew, fungus, needs heavy watering, leaves got many holes, more insects found	Inconsistent growth of leaves, signs of fungus, signs of yellowish, leaves colour uneven	Healthy Shine leaves, each stalk comprise 5 to 7 buds and stem looks bulky, minimum watering
Day 33 (Harvest)	Leaves looks dull, Signs of mildew, fungus, needs heavy watering, leaves got many holes, more insects found, root system is weak, leave taste sourish	Inconsistent growth of leaves, signs of fungus, signs of yellowish, leaves colour uneven, root system is weak leaves taste bitter	Healthy Shine leaves, each stalk comprise 5 to 7 buds and stem looks bulky, minimum watering, healthy root system, leave taste fresh, sweet and crunchy
Weight:	5.74kg	5.1kg	8.01kg ✓

Result: Chemical and untreated organic fertiliser causes unstable microbial ecosystem affected root system of plant . Using Aquis shows improve performance in Brix index, Salinity, Greener, Sweeter, Healthier, less insoluble fiber for easy consumption, higher antioxidant content.





NOW
SHOWING

"We come from the earth, we return to the earth, and in between we farm and garden"

Wu Zhao De, Biophilic Founder

AQUIS FERTILISER CHANGES THE WAY YOU TAKE CARE OF YOUR CROPS, GARDEN AND SOILS.

WITH 18 NATURAL MINERALS, BENEFICIAL MICROBES PLUS OUR BILLIONS OF LACTOBACILLUS.

BIOPHILIC'S APPROACH IN PLANT NUTRITION FOCUSES ON SOIL HEALTH AND WELLNESS. THE BENEFICIAL SOIL MICROBES PERFORM CRITICAL TASKS WITHIN THE SOIL TO BRING BACK THE NATURAL BALANCES AND MAKE DEPLETED SOILS RESPONSIVE AND THEREFORE CONDUCIVE TO GROWING BETTER, HARDIER AND NUTRIENT RICH PLANTS.

WE ARE PROUD TO BE SINGAPOREAN MADE AND EVEN PROUDER TO BE RIVER AND LAKE SAFE AND KIND TO OUR ENVIRONMENT.

AT BIOPHILIC WE BELIEVE THAT QUALITY IS THE KEY TO SUCCESS. OUR COMMITMENT DOES NOT STOP WITH THE PRODUCTS WE MANUFACTURE AND SUPPLIES BUT INCLUDES OUR ENTIRE OPERATING PROCEDURE. IT IS BIOPHILIC'S VISION TO UPHOLD THIS TRADITION OF QUALITY AND VALUE ON WHICH OUR BRAND REPUTATION HAS BEEN BUILT.

AQUIS ORGANIC FERTILISER

DIRECTION FOR USE



Plant Type	Application Rate
Seedlings	<ul style="list-style-type: none"> • Apply amply with seed starter mix • Sprinkle lightly over seedlings
Lawn & Turf	<ul style="list-style-type: none"> • Suitable throughout the year for performance top up and heavy traffic recovery. • 2 - 3 Tonnes per Acre • Once every month
Fruit & Vegetables	<ul style="list-style-type: none"> • Apply 5 - 8 cm deep, fork lightly into soil mix • 2 - 3 Tonnes per Acre • Once every 10 to 14 days
Ornamentals & Flowers	<ul style="list-style-type: none"> • Apply 1 - 3cm deep, fork lightly into soil mix • Once every 10 to 14 days
Trees & Natives	<ul style="list-style-type: none"> • Apply and spread 5 to 10 Litres of Aquis per tree based on girth size • Once every fortnight

