



grow for good™

with



Multikraft[®]
PROBIOTIC SOLUTIONS

COMPANY OVERVIEW
2022



OUR VISION

To solve the biggest problems with the smallest things.



OUR MISSION

To be inspired by nature to make the world a better, healthier place to live in.

“We deliver this through our probiotic technology that is continuously evolving through our innovative culture, combined with our desire to **grow for good.**”

We're solving some of the world's biggest problems

Evolving social, regulatory and legal pressures have moved environmental issues out of the periphery and into the mainstream discussion.

It's literally a race against time to adopt clean, green solutions in order to sustain our future. Multikraft is at the forefront of solving these problems:



Climate change and soil carbon sequestration



Overuse of harmful, disease-causing chemicals



Waste treatment and nutrient recycling



Safe food and water security

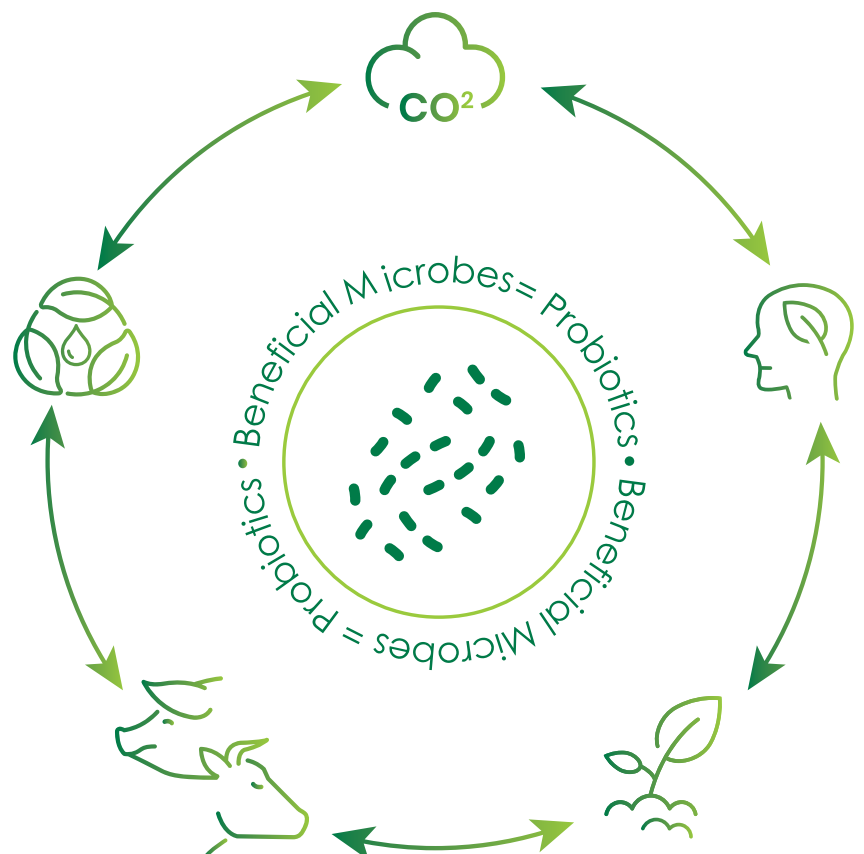
Microbes that are beneficial to the cycle of life = Probiotics

Our products are developed using multi-step fermentation, which results in a robust and adaptive microbial consortium.

This consortium contains a diversity of beneficial liquid microbes combined with metabolites and secondary metabolites.

Multikraft's products support a variety of functions including biocontrol, induced systemic resistance and competitive exclusion of potential diseases.

Our beneficial microbes enhance natural systems, helping you to Grow for Good.



Decades of experience

You're in safe hands



1977

Multikraft was established as a stockfeed company based in Austria.



1986

Multikraft pioneered the first antibiotic-free feed that agriculture could use with the same levels of efficiency.



1997

Commercialisation of specialised probiotic microorganisms in agriculture went live.



2007

Multikraft converted a 350-year-old farm into a world leading production building, including laboratory facilities for the manufacture of products using microorganisms.



2014 – Present

Multikraft Probiotics Australia (now trading as Multikraft Probiotic Solutions) was established, and opens its Biotech Agricultural Centre of Excellence (B.A.C.E) in Bundaberg as the production centre for all Australian Multikraft products.



Multikraft
PROBIOTIC SOLUTIONS

Since this time Multikraft Probiotic Solutions have established ourselves in the Australian market, delivering consistent and reliable results for our customers. We've also partnered with progressive companies such as Rural Aid and Carbon Friendly who are helping us to change the world for the better.

Three core pillars

Our natural, chemical free products target three core agricultural pillars:

- **Plants & Cropping**
- **Animals**
- **Environmental & Waste**

All Multikraft products are safe and easy to use, maximising customers efficiencies through rapid productivity improvements.

Multikraft customers enjoy higher, sustained yields and increased profits, through premium, healthy produce.



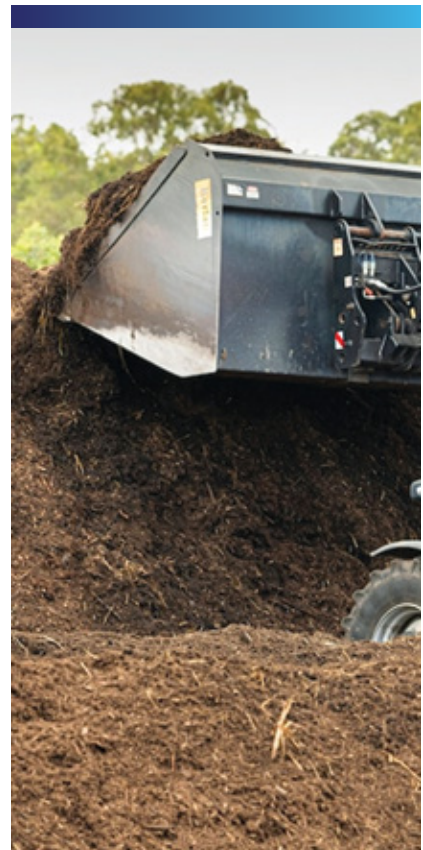
Plants & Cropping



Animals



Environmental & Waste



Three core pillars

Plants & Cropping

Enhancing soil and plant output in agriculture and farming without harmful chemicals.



01. UNDER THE GROUND MICROLIFE & SOIL NRG

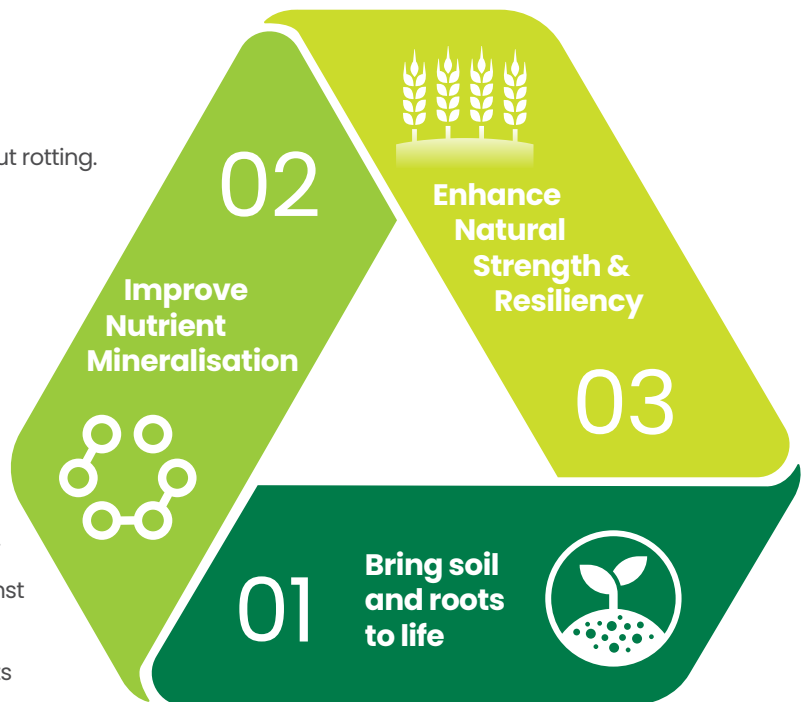
- Healthier roots and plants to buffer and support crop stress.
- Promotes natural germination, root development, maturing and flowering.
- Faster uptake and increased availability of nutrients.

02. ON THE GROUND FERMENTED COMPOST/MULCH

- Accelerated organic breakdown without rotting.
- Reduced water consumption.
- Promotes beneficial fungi.
- Improved soil carbon levels.

03. ABOVE THE GROUND FOLIAR NRG & DEFENCE NRG

- Enhances nutrition, resilience & growth.
- Promotes plants natural defence against pests and fungal diseases.
- Naturally assists the plant to regulate its vegetative growth.



Animals

Reducing animal stress, increasing productivity and feed conversion without overusing antibiotics.



01. IMPROVED GUT HEALTH FHE

- May display an improved appetite.
- Increased feed conversion and performance likely to improve.
- Greater nutrient availability and increased immune function.
- Reduced reliance on chemical inputs.

02. ENVIRONMENTAL BENEFITS FHE

- Less odour from animal waste.
- May see improved disease resistance.
- Fewer emissions.
- Reduced reliance on chemical inputs.

03. WASTE RECYCLING MICROBALANCE

- Slurry and manure treatment from animal waste.
- Improved soil carbon levels through greater mineralisation.
- Assists in the prevention of fly infestations.



Three core pillars

Environmental & Waste



Turning liquid waste into valuable nutrients, reducing sludge and algae to promote balanced waterways without chemicals.

01. SOLID WASTE TREATMENT MICROBALANCE & SUPR-N

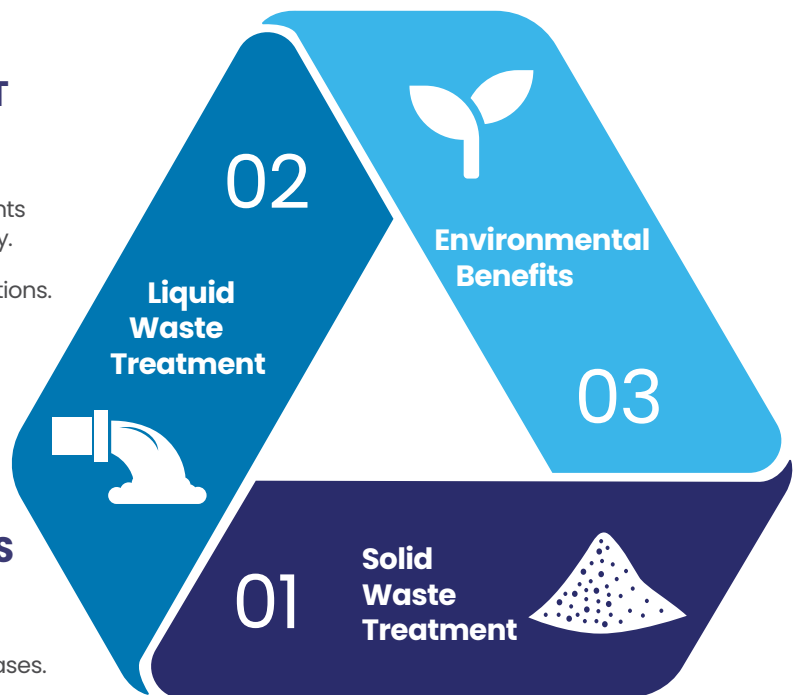
- Treated waste turned into fermented compost/mulch.
- Health and fertility of soil is improved, enhancing root growth, and reducing risk of disease.
- It's no longer necessary to frequently turn over the heap during composting.
- Reduction in odour.

02. LIQUID WASTE TREATMENT MICROBALANCE & RAPID DIGEST

- Improves efficiency of existing treatments for liquid waste, including flood recovery.
- Assists with the prevention of fly infestations.
- Reduction in odour.
- Sludge reduction.
- Reduced corrosion of pipes.

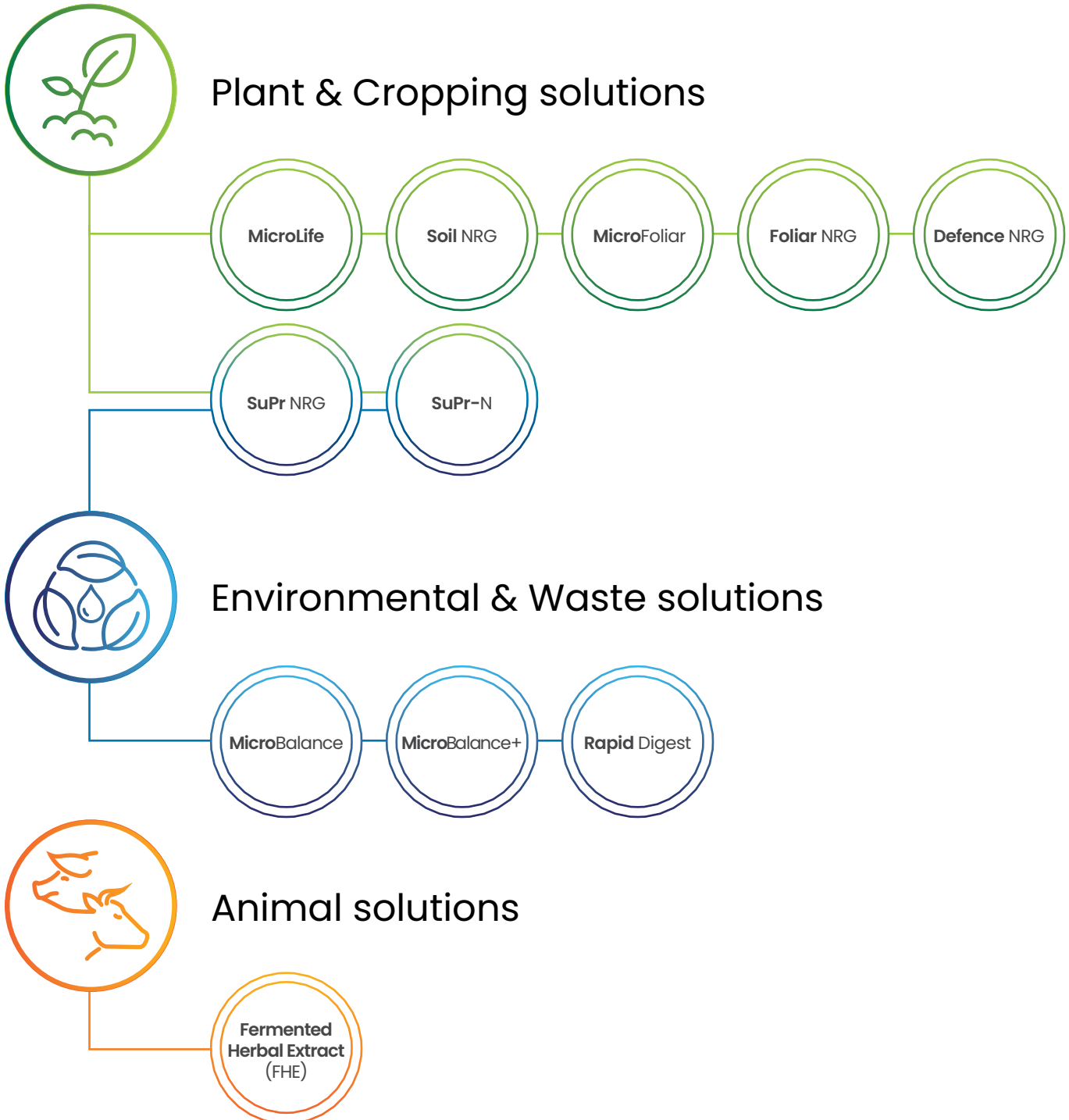
03. ENVIRONMENTAL BENEFITS MICROBALANCE & SUPR-N

- Reduced emissions and greenhouse gases.
- Aids in regeneration following flooding incidents.
- Improved water quality and reduction in sludge and algal blooms.
- Reduction in foul smelling odours.
- Improved soil carbon levels.



Our products

Our liquid product range is extensive, covering all three of our core pillars. A full range of products can be seen below:



Our certifications



Product descriptions

Plant & Cropping solutions



MicroLife - base product

Product Number: 01

MicroLife is a multi-strain probiotic containing dozens of species of beneficial microorganisms. By allowing beneficial microbes to dominate the soil and plants, MicroLife helps to improve the overall health of your plants and crops, whilst also improving germination, root development, maturing and flowering.

Key ingredients

- Photosynthetic bacteria
- Yeasts
- Lactobacillus spp.
- Nitrogen fixing bacteria

Key Benefits

- ✓ Faster uptake and availability of nutrients.
- ✓ Better soil structure (water holding capacity, carbon, nitrogen fixing).
- ✓ Allows beneficial microbes to dominate the soil and plants.
- ✓ Promotes natural germination, root development, maturing and flowering.



Soil NRG - most effectively used with MicroLife

Product Number: 02

Soil NRG contains a mixture of beneficial microbes, Humic acid and micronutrients. When applied, Soil NRG naturally promotes healthy root formation, whilst increasing overall microbial activity and diversity. Soil NRG prevents dominance by plant pathogens in the rhizosphere and increases nutrient cycling and therefore, nutrient availability.

Key ingredients

- Fermented microbial consortium
- Humic acid
- Phytohormones
- Micronutrients

Key Benefits

- ✓ Improves nutrition, resilience & growth.
- ✓ Soil conditioner containing humic acid and beneficial probiotic microorganisms.
- ✓ Naturally promotes growth.
- ✓ Activates soil life.
- ✓ Increases the impact of other soil nutrition.





MicroFoliar

Product Number: 03

MicroFoliar targets the leaf surface to naturally promote plant health, maturing and flowering. Applying MicroFoliar allows beneficial microbes to dominate the environment, suppressing disease pressure whilst enhancing photosynthesis and foliar feeding.

Key ingredients

- Fermented microbial consortium
- Lactobacillus spp.
- Yeasts
- Photosynthetic bacteria

Key Benefits

- ✓ Naturally promotes plant health, maturing and flowering.
- ✓ Outcompetes foliar diseases.
- ✓ Enhances photosynthesis and foliar feeding.
- ✓ Allows beneficial microbes to dominate the soil and plants.
- ✓ Safe, effective, and efficient.



Foliar NRG – most effectively used with MicroLife

Product Number: 04

Foliar NRG targets the leaf surface, with the aim of protecting beneficial microbial populations and reducing the need for plant protection products. The application of micro-nutrients and trace elements found within Foliar NRG will help to buffer the plant against abiotic and biotic stresses.

Key ingredients

- Fermented microbial consortium
- Fulvic acid
- Micro nutrients
- Humic acid

Key Benefits

- ✓ Improves nutrition, resilience & growth.
- ✓ Promotes healthy plants.
- ✓ Contains fulvic and Humic acid as well as probiotic microorganisms.
- ✓ Promotes natural defences against pests and fungal diseases.
- ✓ Naturally assists the plant to regulate its vegetative growth.



Product descriptions

Plant & Cropping solutions



Defence NRG

Product Number: 05

Defence NRG contains a unique microbial consortium mixed with fermented garlic and chilli extracts. It promotes the plants natural defenses against parasitic and fungal attacks whilst strengthening the plant against potential pests and diseases, improving the overall resilience of plants and crops.

Key ingredients

- Fermented microbial consortium
- Fermented extracts (chilli, garlic & nettle)
- Bio-ethanol
- Apple cider vinegar

Key Benefits

- ✓ Improves nutrition, resilience, and growth.
- ✓ Plant health enhancement agent fermented with probiotic microorganisms.
- ✓ Strengthens and invigorates plants defences against pests and diseases.
- ✓ Promotes natural plant defences against parasitic and fungal attacks.
- ✓ Improves the natural resilience of plants.



“We’ve been using the Multikraft program at Sweet Sensations Farm since they launched in Australia and have seen tremendous results which have improved year on year. This program has helped to ensure that our brand is recognised as one of the best suppliers of premium fruit globally.

We use a combination of products including MicroLife, Soil NRG, Foliar NRG and SuPr-N. Our yield results have been improving year on year as has the quality and sweetness of the fruit. Overall we are very happy with the results we’ve seen and would highly recommend the Multikraft program.”

Craig van Rooyen
Sweet Sensations Farm

Hybrid solutions



SuPr-N

Product Number: 06

SuPr-N contains up to 17% controlled release nitrogen containing a mixture of various microbial species and acids. Nitrogen in SuPr-N is split between several pools including microbial biomass, soluble nitrogen (protein peptide and amino acid), ammonium and relatively little in the form of nitrates. SuPr-N effectively acts as a controlled release fertiliser, with release continuing for a full 60 days.

Key ingredients

- Fermented microbial consortium
- Controlled release Nitrogen, up to 17%
- Fulvic acid
- Humic acid

Key Benefits

- ✓ Stabilised nitrogen source, available immediately, as well as 1% potassium.
- ✓ Includes macro, microorganisms and trace elements.
- ✓ Enhanced with beneficial microbes.
- ✓ Naturally promotes germination, root development and plant growth.
- ✓ Balanced nitrogen for soil, foliar and compost applications.



SuPr NRG

Product Number: 07

Our proprietary SuPr NRG product is an environmentally safe, reef-friendly Nitrogen source, containing trace minerals fermented with microbes, as well as humic and fulvic acid. SuPr NRG effectively acts as a controlled release fertiliser as the nitrogen is mineralised over time. SuPr NRG assists in increasing soil microbial biomass compared to controls and other treatments.

Key ingredients

- Multi-step fermented microbial consortium
- Organically bound nutrients
- Nitrogen source, up to 15%
- Humic & Fulvic acid

Key Benefits

- ✓ Organically bound nutrients.
- ✓ Enhanced with beneficial microbes and trace elements.
- ✓ Naturally promotes germination, root development and plant growth.
- ✓ Nutrition for soil, foliar and compost applications.
- ✓ Fermented with humic and Fulvic acid.



Product descriptions

Environmental & Waste solutions



MicroBalance

Product Number: 08

MicroBalance is a mixture of beneficial microorganisms that improve the healthy digestion of organic material. It promotes odour free decomposition in composting, wastewater and sewerage sludge treatment, whilst also reducing nutrient loads that cause pathogen and algal blooms.

Key ingredients

- Lactobacillus spp.
- Yeasts
- Photosynthetic bacteria
- Hydrocarbon/cellulose degrading bacteria

Key Benefits

- ✓ Beneficial microbes and organic acids.
- ✓ Improves organic breakdown (reduces putrefaction/sludge).
- ✓ Odour control (hydrogen sulphide, ammonia, nitrous oxide and methane).
- ✓ Reduces nutrient loads that cause pathogen and algal blooms.
- ✓ Flies will not be attracted.



MicroBalance+

Product Number: 09

MicroBalance+ contains a mixture of beneficial microorganisms that are designed to promote the healthy breakdown of crop residues and stubble, returning crop waste back to your soil. This increases both the organic matter and microbial activity, preparing your soil for the next crop.

Key ingredients

- Lactobacillus spp.
- Hydrocarbon/cellulose degrading bacteria
- Humic acid
- Micronutrients

Key Benefits

- ✓ Multi-strain probiotic with trace minerals.
- ✓ Fermented humic acid and seaweed.
- ✓ Naturally enhances seed germination and root development.
- ✓ Supports the function of other soil nutrition.
- ✓ Promotes digestion of organic matter.





Rapid Digest – most effectively used with MicroBalance

Product Number: 10

Rapid Digest is used in combination with MicroBalance to accelerate healthy biological breakdown and decomposition. It contains bacteria that are effective at breaking down sludge, cellulose and hydrocarbons, whilst minimising offensive odours.

Key ingredients

- Fermented microbial consortium
- Phosphoric acid
- Fermented seaweed & trace elements
- Hydrocarbon/cellulose degrading bacteria

Key Benefits

- ✓ Contains the power of beneficial microbes and organic acids.
- ✓ Improves organic breakdown, including reduction in putrefaction and sludge.
- ✓ Odour control (hydrogen sulphide, ammonia, nitrous oxide and methane).
- ✓ Reduces nutrient loads that cause pathogen and algal blooms.



Animal solutions



Fermented Herbal Extract (FHE)

Product Number: 11

FHE supports the healthy digestion of animals, assisting rapid feed adaptation and may improve appetite. Microbes found in FHE act to compete with and inhibit the growth of pathogens, which aids in immune system functions. It contains a range of microbes including Lactobacillus species and yeasts that are fermented with various herbs.

Key ingredients

- Fermented microbial consortium
- Lactobacillus spp.
- Fermented herbs
- Yeasts

Key Benefits

- ✓ Beneficial microbial gut flora.
- ✓ Supports healthy digestion.
- ✓ Enhances immune system functions.
- ✓ Maintains a healthy appetite and feed intake.



Industry relations include:



- + grow your crops
- + grow your animals
- + grow your yields
- + grow your profits
- + grow your impact



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