

Nutrigain Products – Principles and How They Work

COMPOST PRODUCTS

Organic Gold

What it does?

Yield promoter (supplement). Organic certified.

Granular supplement darker in appearance and finer in composition (more points of contact) compared to other supplements. It is made from organic ingredients. Organic Gold gives a simultaneous increase in mushroom density and whiteness with its yield increase. Works very well on phase 2 and 3 compost and it is easy to control as it follows air temperature closely. Superior product to competitors organic variants due to limitations of what they can use without formaldehyde.

How does it work?

Soluble and finer components in supplement gives a quicker and easier release of nutrition for the enzymes in the mycelial growing process.

High lipid means high energy input into the growing cycle.

What encourages it?

Good quality compost. Poor compost has no yield benefit and can work in reverse. Uniform mixing is key.

Application rate:

1 – 1.5% on wet weight applied uniformly through compost depth at filling phase 2 or 3.

Mycrofeeder

What it does?

Feeder that is applied to the compost top prior to casing. Two versions; organic certified and natural.

It is used as a nutrition “top up”. It is independent of compost and other nutrition strategies. It produces heavy white mushrooms and much larger 2nd and 3rd flushes than the normal growing situation.

How does it work?

Additional soluble nutrient source.

What encourages it?

Warm case run temperature for a substantive period of case run (>23° C) and into airing.

Careful observation and encouragement of growth into the casing.

Application some days before casing; when spawn is growing strongly.

Application rate

200ml Mycrofeeder plus 1 - 1.8 litres water applied on compost interface prior to casing.

CASING PRODUCTS

MycroNutrient

Acts as a release agent making available the nutrients already in the compost.

What it does?

Increases yield
Speeds up pinning on 1st flush (18-36 hours)
More pins form
Mushrooms are denser
Pinning process stops quicker and more predictable
Keeps casing in better condition for longer into the crop

How does it work?

Mycelium hyphae absorb it in solution through their tips as it grows through the casing. The patented carboxylic acids stimulate the growing processes that act to release more from the compost.

What encourages it?

Casing pH of 8 to enable nutrient exchange
Warm case run temperature for a substantive period of case run (>23° C) and into airing.
Lots of water during period of application and cropping.

Application rate:

120-160 ml/m² applied in casing mixer prior to application to the compost.

Mycrogranules

This is the same as the MycroNutrient except in a granular form. Two versions; organic certified and natural.

The reason for introduction of this product is to permit the grower to apply themselves directly at the farm with ready mixed casing and is easily visible to the naked eye so growers can ensure an even application. Secondly pH of the casing soil in Europe tends to be low (6.9-7.3). The granules are a high pH which acts as a buffer against these circumstances.

Application rate:

270-300g/m² applied in casing mixer or on filling machine (with hopper) as casing being applied and/or by ruffling.

pH Balance

What it does?

It raises the pH of the casing. Safe way of increasing with much less chance of "overshooting" target pH.

How does it work?

It is a fine white powder that reacts with the casing and a correct dose will increase and buffer the pH to 8. This is to optimise performance of Mycronutrient. It also reduces *Trichoderma viride* in the casing. Can be premixed in the casing or in the mixer on the day of casing.

What encourages it?

Even mixing throughout the casing
Longer reaction period (12-24 hours) before application

Application rate:

1 bag (20kg) per 1m³ ready mixed casing or casing make up.

DISINFECTION PRODUCTS

Sporekill / Nutriclean

What it does?

It is a natural disinfectant used for wash down after crop or between the flushes. It protects against all the major mushroom pathogens as well as microbiological infections like *Listeria sp.* There will be no unsafe residues in your mushrooms, which means NO water wash down needed after application. Because your cookout does not sterile the floor effectively Sporekill is the perfect and safe complement in this situation. It can be fogged safely.

How does it work?

It is a clear golden coloured disinfectant. It has 4 main modes of action; penetration, fungistatic action, fungicidal action and trapping action through a unique film that is created.

What encourages it?

Leaving it to dry off fully

High CO₂ in the growing rooms

Addition of small % of hydrogen peroxide speeds up reaction time.

Application rate:

1-2% depending on what is being treated.