

# Beyond Organic Technical Info.

This product is a chemical free soil conditioner that is fully organic. It is made up of the following ingredients.

**Kelp** – over 63 sea minerals in this as well as auxins, cytokinins & gibberellins.

**Composted Manures** – a good source of trace elements, bacteria, & beneficial fungi.  
Very important in the building up of healthy topsoil.

**Vermicast** – worm by-products condition the soil making it an excellent environment for beneficial creatures to inhabit.

**Fish Protein** – a good source of nitrogen & omega fatty acids.

**Rock Dust** – volcanic rock dust will improve impoverished soils by remineralizing them. Adding this to Beyond Organic injects more important minerals.

By using these 5 Bio-Dynamic Composting Preparations, it brings the formula into a complete living structure, so instead of each ingredient working on it's own independently, the ingredients are brought together alive & work together as a team.

Included in this bio-dynamic preparations are :

**Yarrow** – this stimulates potassium, silica & selenium activating bacteria & helps combine sulphur with other substances.

**Chamomile** – helps in retaining nitrogen & calcium. Stimulates manganese & boron as well as azotobacter activity (the best bacteria for making nitrogen in the soil).

**Stinging Nettle** – helps proper decomposition, aids chlorophyll formation & stimulates iron, potassium, calcium, magnesium & sulphur activity in the soil.

**Oak Bark** – helps calcium & phosphorus work into the earth & protects against fungal diseases.

**Dandelion** – stimulates the potassium / silica bacteria in the soil, also stimulates the magnesium, boron & selenium soil activity.

**Valerian** – stimulates the phosphorus process & mobilizes the activating bacteria in the soil as well as selenium & magnesium.

**Auxins** – are plant growth hormones essential in shoot & root development.

**Cytokinins** – this group of hormones are essential in cell division, stem elongation & leaf expansion.

**Gibberellins** – this class of hormone promotes lateral growth & synthesises proteins.

The bacteria grown in the fermentation process of Beyond Organic are known to produce these & other plant growth promoting compounds & in the presence of these compounds in the root zone they appear to stimulate plant growth directly.

Beneficial fungi in Beyond Organic are - *Bacillus licheniformis* & *luciferensis*.

*B. licheniformis* - is a common soil micro-organism that contributes to nutrient recycling & displays anti-fungal activity. The bacteria act against fungi (especially those causing leaf spot & blight diseases) by producing an antibiotic agent & an anti-fungal enzyme.

*B. luciferensis* - is generally found in soil & works as a bio control agent.