



## BCP85 COMPOST ACCELERATOR

# BCP 85 WILL NATURALLY ACCELERATE THE BREAKDOWN OF ORGANIC MATERIAL FOUND IN COMPOSTING PILES.

Organic materials make up approximately 20-30% of household wastes. Many municipalities are opting for composting in addition to recycling to reduce the overall load arriving at landfills. Composting facilities can accommodate large volumes of organic material including fruits and vegetable wastes, grasses, fats oils and greases, and many animal by-products.

### PRODUCT DESCRIPTION

The BCP85 Compost Accelerator is a blend of bacteria, yeast, enzymes and nutrients for the acceleration and optimization of the degradation of household and agricultural organic wastes in composting processes. A number of microorganisms and nutrients have been selected to formulate this product in order to both enrich the waste material to be degraded and to also get an enriched fertilizer from the composting.

Composting is a natural process whose purpose is the decomposition of organic waste material into the form of fine humus. Composting is achieved through the action of micro-organisms such bacteria and fungi in a ventilated environment. The Composting requires a humidity between 50 and 70%; an adequate aeration, ventilation, a ratio of carbon/nitrogen (C/N) between 20 and 35, a ratio of carbon/phosphorus (C/P) between 50 and 150, trace element such vitamins and mineral elements required for microbial growth and good porosity and permeability of the waste piles to be degraded.

We know that degradation of organic matter during composting depends on several interrelated factors. The diversity of the microbial community and their total amount in the waste material will play key roles in both yield of degradation of the organic waste and the quality of the fertilizer. The BCP85 will guaranty a good microbial diversity for better maturation and degradation of the compost and will provide to the user a more stable fertilizer. Growth factors such as mineral ele-

### BCP 85 COMPOST ACCELERATOR CAN:

- *Save time by accelerating the speed of degradation*
- *Improve microbial growth by providing trace elements that may be lacking*
- *Optimize the microbial diversity since several groups of micro-organisms including mesophilic bacteria, thermophilic bacteria, yeasts and fungi must take turns to reduce the long carbon chains into smaller molecules.*
- *Ensure the availability of effective microorganisms to degrade complex and recalcitrant organic molecules such hydrocarbons and inhibitors*
- *Reduce the amount of loaded waste by liquefying the solid materials*
- *Improve the quality of the biological fertilizer obtained from composting*
- *Stabilize the humus while reducing malodorous molecules from finished product*
- *Enhance quality of agricultural products that will be produced from the natural fertilizers*

# BCP85

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ments and vitamins are other important parameters that must be carefully monitored to get a good microbial activity. The BCP85 contains mineral elements, amino acids, peptides and vitamins all necessary for the growth and metabolic activity of a wide variety of microorganisms including bacteria, yeasts and fungi all necessary in the composting processes. Thus using the BCP85 will provide elementary element nutrients often missing in organic waste material for proper composting and optimization of humus quality as organic fertilizer. Enzymes and active yeast will address the issues of slowly biodegradable material such as the grasses and agricultural trimmings.

## APPLICATION INSTRUCTIONS

*1 metric ton of total solid in waste can be treated with 250 g of BCP 85*

*Dry or wet application can be used. BCP 85 can be diluted in water and directly sprayed onto the waste material to be composted or water soluble pouches can be manually thrown in the pile. We recommend diluting the powder in 1/20 (powder/water) for its application.*

*The dosage rate can vary according to system variation. The above dosing is for a typical, well-maintained system. Parameters such as pH, nutrient levels, oxygen availability, and moisture content are critical to the success of composting.*

*BCP 85 Compost Accelerator can be used in all types of municipal and industrial scale composters such as:*

- *Vermicomposting*
- *Aerated static pile composting*
- *Windrow composting*
- *In-vessel composting*

*For further information on application, contact you BIONETIX technical representative.*

## REDUCTION OF RECALCITRANT COMPOUNDS

A major environmental concern from large scale composters are the control of contaminants such as pesticides and preservatives found in foods, grass trimmings etc. The use of a composting accelerator will permit the addition of specialized microorganisms capable of degrading recalcitrant compounds such as hydrocarbons found in various preservatives and pesticides used for fruit and vegetables.

## PRODUCT SPECIFICATION

<b>Description:</b>	Tan color free flowing powder
<b>Packaging:</b>	400 x 28g (10kg pail); 200 x 56g (11.2kg pail); 40 x 250g (11.2kg pail) water soluble pouches; also available in custom packaging and in bulk
<b>Stability:</b>	Max. Loss of 1 log/yr
<b>Bulk Density:</b>	0.5 - 0.7 g/cm <sup>3</sup>
<b>Moisture Content:</b>	15%
<b>Nutrient:</b>	Biological Nutrient and microbial growth factors
<b>Bacteria Count:</b>	Min. 5 billion cfu per gram
<b>Storage :</b>	DO NOT FREEZE Do not inhale dusts Avoids excessive skin contact See MSDS