

# Flytilizer

## Chitin rich insect fertilizer

### Protix

Protix is the leading insect company in producing natural and sustainable ingredients from insects. Our vision is a food system in balance with nature. The black soldier fly is a key player in bringing our vision to life. Our circular approach uses food industry by products to feed the insects. In turn, the insects are used as a high-quality nutrition source in different types of animal feed. Products of Protix are: ProteinX, LipidX, PureeX and Flytilizer.

### Flytilizer

Flytilizer is processed insect frass. It is a 3-in-1 fertilizer that activates antagonistic activity (chitin), improves soil structure (organic matter) and feed plants (essential nutrients). Flytilizer acts as a soil activator that brings back the ecological balance into soil.

### Chitin

Chitin is the major component which activates antagonistic activity. The chitin is a perfect feeding source for micro-organisms like *B. subtilis*, Protozoa, Mycorrhiza and Actinomycetes. The exoskeleton of insects is rich in chitin, this chitin naturally ends up in Flytilizer.

### Composition

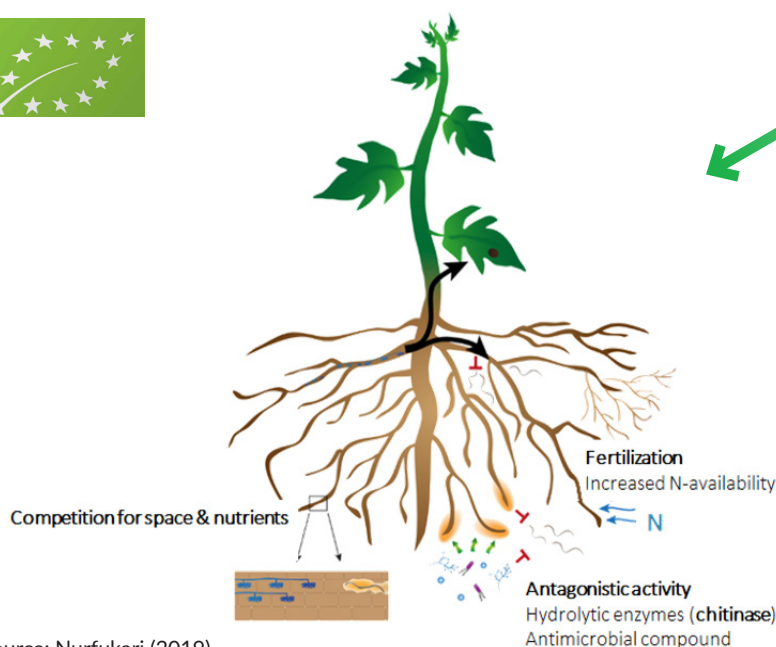
Dry matter = 90%  
Organic matter = 75%  
NPK value = 3-2-2

### Application

Flytilizer is suitable for open and closed (potting) soil cultivation systems. Flytilizer is available in 4 mm pellets or 1-3 mm crumbs.

### Dosage

1000-2000 kg per ha  
2-5% potting soil volume (based on dry matter)



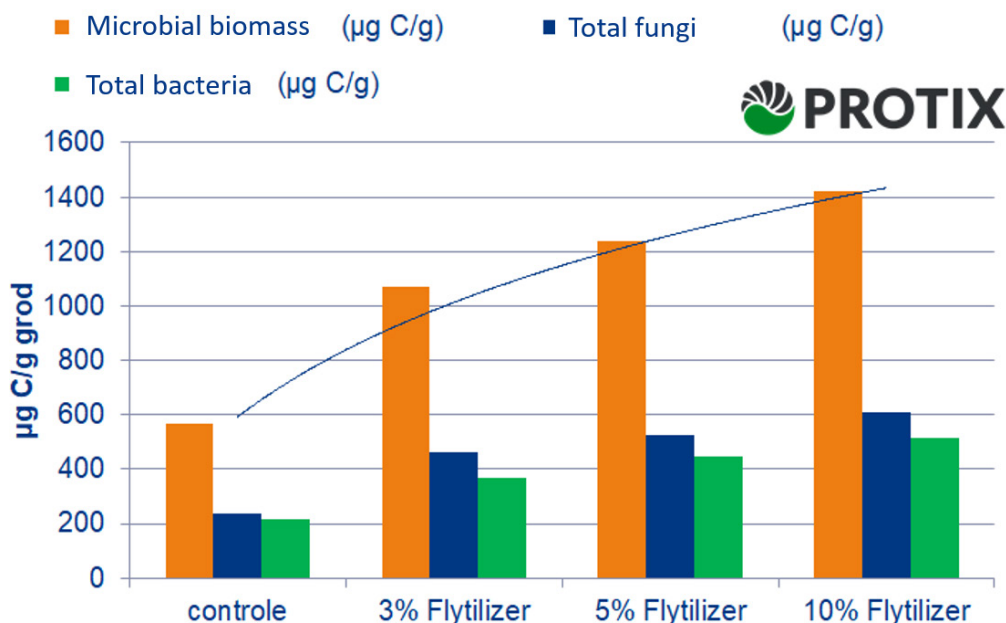
Source: Nurfukari (2019)

### Advantages of Flytilizer:

- Stimulates plant's defence mechanism
- Improves soil structure
- Contains essential nutrients
- Nutrients are released in a controlled way
- Low footprint fertilizer
- 100% pure: no additives
- Very low amounts of pesticides and heavy metals
- SKAL certified

### Flytilizer potting soil trial

eurofins | Agro



### Animal-based

*Insects are the original protein source for many animals, including chickens and fish*

### Plant-based

*Insect residues are used to create improved soil health*

