

EIP-AGRI practice abstract

Short title:

Compost from algae and cattle manure by local composting process

Summary:

This compost is made from cattle and equine manures, straw and algae, on an outdoor platform with a management way by swathing and with monitoring of temperature.

Made on an outdoor platform, the raw material is managed by swathing, with turning by towed turner three times. The temperature rise comes from the micro-biomass aerobic activity (bacteria, fungi, yeast...) and is maintained above 50°C for at least 4-5 weeks. After several months for maturation, the compost has a 47 % (RM) of dry matter.

The manure and algae compost of SARL Gautronneau is a balanced product which use allows to increase C storage in soil but also the soil ability to feed crops. The composting way ensures the product's sanitization and allows to use the product with some risky crops like vegetables.

Characterization : % Organic Matter (RM) = 14% RM - %N = 0.8 - % P₂O₅ = 0.7 - % K₂O = 1.8

%CaO = 6.4 - % MgO = 0.5 - % SO₃ = 0.6

This product can be spread with a horizontal spreader.

Recommended crops: Wheat, Barley, Corn, Rape, Sunflower, Vegetables, Grapes.

Application doses: as a soil improver, the average input for this product is 10 t/ha, up to 25 t/ha.

A 10 ton/ha input brings

- 700 kg C/ha in the soil carbon stock
- A nitrogen year supply for crop from 11 kg N/ha up to 33 kg N/ha, depending on the climatic year

The pH value of 8,9 makes it an interesting product for acid soils. This product is authorized for organic farming.

Price: 25 €/ton

For more information: https://nutriman.net/farmer-platform/product/id_540