

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Composting Broiler Chicken Litter with Bacteriological Activity.



ERGOFITO

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Objective:

The objective of adding Ergofito Micromix Concentrate into chicken litter composting is to achieve a high-quality compost which can be bagged or sold in bulk.

Standard composting cannot reach a humus level as it lacks the bacteriological activity required to complete the decomposition of all inert organic matter into real plant food.

Practical guidelines:

Broiler chicken litter usually contains sawdust, hay or other organic matter. However, the contained organic matter does not reach the needed 20 to 1 Carbon to Nitrogen percentage.

Therefore, we have to add organic material to balance the above-mentioned ratio.

The optimal height of the compost pile should be 2.5 meters.

A lower compost pile, will have excess aeration and it will result in Nitrogen being lost via Ammonia, thus lowering the quality of the final product.

The advised time period to compost should be 90 to 100 days.

Cutting this time short will result in an incomplete inefficient product which could result in crop damage.

To obtain best results we advise to follow these basic steps:

1. The heaps should be 2.5 meters in height and 2.5 meters in width.
2. Care must be taken as to the humidity control.
Humidity must not go below 60% and not above 80%.
3. The pH must always be between 6.5 and 7.2.
4. Temperature control is also vital.
In the first few days there must be a temperature raise towards the center of the heap, about 40 cm in depth. The minimum must be 40⁰ C and the maximum 55⁰C.
5. The presence of mold should occur within the first 20 days on the heaps surface.
6. In the first month the heaps must be turned at least once a week. In the second month every 15 days. If the heap enters a third month then once a month.
7. The conductivity should be 1000 micro Siemens.



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CAUTION:

Once the chicken litter humus as made per above description, the pH tends to set itself high, in the region of 7.2. In this event we lower the said pH with the following ingredients:

- a) Chalk
- b) Sulphur
- c) Phosphoric acid
- d) Citric acid

As per the quantities, it has to be based on the variants as well as the external temperature. Should the smell of ammonia be present, molasses can also be added as well as any of the above-mentioned ingredients.

If earthworms do not naturally penetrate the compost heap, then the quality of the said compost heap is not at its best.

Application:

500 grams of Ergofito Micromix Concentrate is required for 2 tons of fresh material. To improve the compost quality the following should be added:

- 60 Kg Water
- 0.5Kg Ergofito Micromix Concentrate
- 30 Kg Molasses
- 10 Kg Iron Sulphate
- 5 Kg Zeolite
- 5 Kg Chalk

Procedure:

Dilute in the 60 Kg of water all the above ingredients **in the same order**. Ensuring that each ingredient is fully dissolved before adding the next one. Once all the ingredients are added, stir for 20 minutes. The product is now ready for use. The sales price will indicate if the above materials should be added. Ergofito Micromix Concentrate will add bacterial activity.

Alternative Application

A less expensive solution to the above is to use **Ergofito Bioflush**.

By using Ergofito Bioflush instead on the above application, you will still achieve a good result, following the same practical guidelines as above.

Mix 2Kg Ergofito Bioflush with 60 Liters of water and apply to two and half tones of fresh material.



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