

Microbiology Of Composting

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~~Microbiology of the Composting Process~~

Composting is increasingly used as a recycling technology for organic wastes. Knowledge on the composition and activities of compost microbial communities has so far been based on traditional methods. New molecular and physiological tools now offer new insights into the "black box" of decaying material.

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This chapter discusses the microbiology of the composting process. The biological cycling of nutrients is indispensable for life and is mediated through microorganisms. Biotransformation is a biological modification that alters the chemical structure of a substance. The decay of materials during composting follows the common biochemical pathways of any other degradation process.

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(2) The microbiology of composting is somehow related to soil microbiology and litter decomposition, i.e., soil fertility, turnover of organic matter in nature and formation of humic substances.

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bacteria, fungi, parasites) that are pathogenic to Microbiology of the composting process man, animals, and plants to a level that does not further constitute a health risk; and (3) to produce an organic fertilizer or a soil

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According to Biddlestone (1973) composting is the decomposition of heterogenous organic matter by a mixed microbial population in a moist warm aerobic environment. Incomplete microbial degradation of organic waste, where the microbial processes vary from aerobic to anaerobic form are stated as compost.

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~~Bacterial diversity at different stages of the composting ...~~

There are two main classes of composting microorganisms, known as aerobes and anaerobes, according to Planet Natural. The aerobes are bacteria that require oxygen levels of at least 5 percent to...

~~The Science Behind Composting | Live Science~~

Water - Having the right amount of water, greens, and browns is important for compost development. Your compost pile should have an equal amount of browns to greens. You should also alternate layers of organic materials of different-sized particles. The brown materials provide carbon for your compost, the green materials provide nitrogen, and the water provides moisture to help break down the organic matter.

~~Composting At Home | Reduce, Reuse, Recycle | US EPA~~

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An unforeseen diversity of microorganisms are involved in composting, Composting is increasingly used as a recycling technology for organic wastes. Knowledge on the composition and activities of compost microbial communities has so far been based on traditional methods.

~~Microbiology of Composting by H. Insam~~

Microbiology of Composting (eBook, 2002) [WorldCat.org] Beneficial bacteria found in garden compost are busy breaking down matter and creating carbon dioxide and heat. The temperature of compost can get up to 140°F. (60 C.) due to these heat-loving microorganisms. Compost-enhancing bacteria work around the clock and in all sorts of conditions to

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Introduction. Composting is increasingly used as a recycling technology for organic wastes. Knowledge on the composition and activities of compost microbial communities has so far been based on traditional methods. New molecular and physiological tools now offer new insights into the "black box" of decaying material.

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Bacteria are the smallest living organisms and the most numerous in compost; they make up 80 to 90% of the billions of microorganisms typically found in a gram of compost. Bacteria are responsible for most of the decomposition and heat generation in compost.

~~CORNELL Composting - Compost Microorganisms~~

This chapter discusses the microbiology of the composting process. The biological cycling of nutrients is indispensable for life and is mediated through microorganisms. Biotransformation is a biological modification that alters the chemical structure of a substance.

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The Job of Compost Bacteria Beneficial bacteria found in garden compost are busy breaking down matter and creating carbon dioxide and heat. The temperature of compost can get up to 140°F. (60 C.) due to these heat-loving microorganisms. Compost-enhancing bacteria work around the clock and in all sorts of conditions to break down organic material.

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