

A textbook of vermicompost vermiwash and biopesticides

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What is vermicompost and vermiwash? By definition, vermiculture is the process of breeding earthworms, whereas the liquid filtered from the watery wash of earthworms is called vermiwash [7], while, vermicomposting is the transformation process of organic waste to compost or vermicompost by the use of earthworms.

Which organism helps in preparing vermicompost? The correct answer is Earthworm. Vermicompost is the product of the decomposition process using various species of worms, usually red wigglers, white worms, and other earthworms, to create a mixture of decomposing vegetable or food waste, bedding materials, and vermicast.

What are the disadvantages of vermicompost? Following are the important disadvantages of vermicomposting: It is a time-consuming process and takes as long as six months to convert the organic matter into usable forms. It releases a very foul odour. Vermicomposting is high maintenance.

What is the NPK content of vermiwash? Vermiwash is the liquid fertilizer that is collected from a vermicompost bed and is rich in various nutrients (1.5 %-2.2 % N, 1.8 %-2.2 % P and 1.0 %-1.5 % K) and growth hormones (cytokinin, auxins, gibberellins, etc.) (Adhikary, 2012).

Does vermicompost really work? This method of recycling converts organic materials that have traditionally been viewed as waste into a valuable soil amendment for plants and crops. When vermicompost is added to soil, it boosts the nutrients available to plants and enhances soil structure and drainage.

Is vermicompost good for all plants? Yes. Just like human bodies require an apt amount of nutrients and minerals to grow so does plants. The vibrant plant life above ground is strengthened not by the gardener's hands, but by the billions of microbes and micronutrients in the soil below.

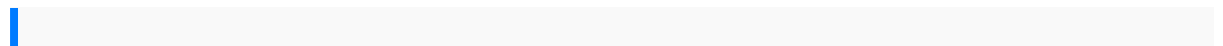
What are the three types of worms used for vermicomposting?

What is the vermiwash method? Vermiwash is produced during earthworm manure production. For this, we are given a slight (8-10 cm) slope outwards to the bottom surface of the vermicompost bed. A pipe is inserted into the outer wall by making a hole (5-10 cm in diameter) at the bottom. Keep the mouth of the exit pipe in an earthen pot or any vessel.

What is the function of vermiwash? Vermiwash can be used as a potent biofertilizer to develop the germination and seedling survival rates in crop plants growing on nutrition depleted soils thus paving the way for sustainable agriculture using organic farming practices.

Is vermicompost same as worm castings? Castings are also sometimes called vermicompost and (more indelicately) "worm poop"... but all of those terms refer to the same thing! Worm castings are packed with nutrients and trace minerals that indoor and outdoor plants can easily absorb through their roots. Solid, dry castings can be used like compost.

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