Abstract

The design of a compost system and its operation requires a variety of processes and materials that deal with technologies that must hold the capacity and behavior of the biology of the compost. Some elements that composed a compost system are relative and deals with a product into the market. The effect of possible moisture levels and the compaction grade are subject of studies to determine the influence of present oxygen. A general airflow model will be developed based on the Carman Cozeny equation that presents permeability with materials holding porosity characteristics. A number of five biogenic different residues will be composted and monitored in order to modify and develop microbiological methods respecting to the compost technology (oxidant agents consumed in the reduction of DMSO during the anaerobic REDOX phase), in order to determine the maturity state and the compost effect on the plant growth phase in vitro experiments.

Keywords

Compost, Moisture, Aeration, Waste Biogenics.