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## 微生物菌剂对烟末堆肥理化性状及种子发芽指数的影响\*

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收稿日期 2007-4-12 修回日期 2007-4-16

**摘要** 以废弃烟末为原料进行高温堆肥试验, 在添加不同微生物菌剂的条件下, 采用好氧人工翻堆堆肥方式, 研究烟末高温堆肥过程中理化性状的动态变化及种子发芽力。结果表明: 添加微生物菌剂的烟末堆肥, pH, EC, 容重的增加均显著高于纯烟末堆肥对照, 进入高温时间较短, 种子发芽指数达到81.02%~88.67%, 堆肥达到腐熟指标, 可以作为有机肥施用。

**关键词** [烟末](#); [堆肥](#); [理化性状](#); [种子发芽指数](#); [腐熟度](#)

**分类号** [S 141.4](#)

## Effects of Microbial Strains on Physical and Chemical Changes of Tobacco Fine Waste Compost and on Germination Index of *Brassica chinensis* L.

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### Abstract

The high temperature compost using tobacco fine, an industry waste, as the basic material under an aerobic fermentation was carried out. The effects of three microbial strains, Faby, Dingzhi and Rongfeng on the dynamic changes of temperature, EC, pH, the bulk density of the tobacco fine compost and the germination index of *Brassica chinensis* L. was studied. The results showed that, compared with the pure tobacco fine waste, adding microbial strains accelerated the increasing of pH, EC and bulk density of the compost and shorten the time of reaching high temperature. The *Brassica chinensis* L. germination index of the composts with microbial strains was 81.02%~88.67% and the composts could be used as organic fertilizers.

**Key words** [tobacco fine waste](#); [compost](#); [physical and chemical property](#); [germination index](#); [maturity](#)

DOI:

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