

不同调理剂对牛粪好氧堆肥的影响

Effects of different bulking agents on cattle manure composting

投稿时间: 2006-8-10 最后修改时间: 2006-10-17

稿件编号: 20061457

中文关键词: 牛粪; 调理剂; 堆肥

英文关键词: cattle manure ; bulking agent ; composting

基金项目: 国家自然科学基金项目 (50376009) 和黑龙江省科技攻关项目 (20030101001-00)

作者	单位
于海霞	(1977-), 女, 黑龙江省富锦市, 助理畜牧师, 硕士, 动物营养与饲料科学。天津市北辰区宜兴埠北天津市畜牧兽医站, 300402。Email:yuhaixia607@163.com
孙黎	东北农业大学动物科技学院, 哈尔滨 150030
栾冬梅	(1963-), 女, 黑龙江省集贤县, 副教授, 硕士, 养殖场废弃物的处理。哈尔滨市香坊区公滨路木材街59号东北农业大学动科院, 150030。Email:ldmneau@163.com

摘要点击次数: 9

全文下载次数: 4

中文摘要:

养殖业的发展造成了周边环境的严重污染。好氧堆肥技术是处理固体有机废弃物的一种有效方法。该文利用自制发酵箱进行了牛粪与不同调理剂-玉米芯、玉米秸秆和稻草的混合好氧堆肥试验。试验结果表明, 当堆肥底料的初始碳氮比为27:1, 初始含水率为65%时, 玉米芯、玉米秸秆和稻草均可作为调理剂与牛粪进行好氧堆肥, 且可达到无害化要求。而采用粒径大、多孔、疏松的玉米芯作为调理剂, 有利于通风供氧, 堆体升温 and 降温均较快, 高温持续时间长, 堆料腐熟快, 有利于加快堆肥的进程。

英文摘要:

The development of stockbreeding results to serious pollution to the circumiacent environment. Aerobic composting technology is an effective solution to treat solid organic rejectamenta. In this paper, the experiment was conducted to study the effect of difeerent bulking agents on cattle manure composting. The results indicated that when the initial ratio of C to N in the underset of compost was 27:1, and initial wates content was 65%, all the corn core, corn straw and rice straw can be used as opsonin which enhance the aerobic composting of cow feces, and it can reached the level of innocuity. While the porous and loose corn core was beneficial to the ventilation and oxygen supply of composting bin, the temperature of the compoting bin which the bulking agent is corn core risid and dropped quickly and the high temperature lasted much longer, and the corn core is beneficial to the process of composting.

[查看全文](#)

[关闭](#)

[下载PDF阅读器](#)

您是第607236位访问者

主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: tcsae@tcsae.org

本系统由北京勤云科技发展有限公司设计