

林学一研究报告

发酵油茶枯饼生产蛋白饲料的混合菌种的筛选

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摘要:

以油茶枯饼为原料, 筛选生产优质高蛋白饲料的菌种为目的。通过平板点种试验, 选用黑曲霉为指示菌, 又根据刺激圈试验以及三角瓶发酵培养, 获得油茶枯饼生产蛋白饲料的最佳菌种组合, 油茶枯饼发酵后粗蛋白含量为16.94%, 较未发酵时的10.82%提高了56.56%。试验结果表明, 油茶枯饼生产蛋白饲料的最佳菌种组合为: 地衣芽孢杆菌10181: 黑曲霉: 葡萄汁酵母1445: 米曲霉=1: 1: 1: 1时为优选接种比例。

关键词: 菌种筛选

Screening of the Multi-strains to Produce Cell Protein Feeds from Oil-tea Camellia Cake

Abstract:

The research aim to select strains producing high quality protein feedstuff in oil-tea Camellia cake as raw material. The strain of *Aspergillus niger* was selected to be an indicator strain through the dot-inoculating method. The optimum multi-strains ratio of fermenting multi-strains was selected according to the results from the stimulating circle experiment as well as fermentation experiment in the flask. The protein content of fermenting product under this fermentation condition could reach 16.94%, which was 56.56% higher than the control of 10.82%. Then the optimum multi-strains ratio of fermenting multi-strains was *Bacillus licheniformis*10181 : *Aspergillus niger* : *Saccharomyces uvarum*1445 : *Aspergillus niger*=1 : 1 : 1 : 1.

Keywords: strain screening

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