

研究论文

激素对香菇子实体生长的生理效应

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摘要 用五种激素分别配制三种浓度,对香菇(*Lentinus edodes*)出菇前分批进行了喷洒试验,并对香菇于实体的分化、出菇、产量和品质进行了观察与测定,其中以卅烷醇和赤霉素效果最佳,在适宜的浓度时产量分别提高41.4%和39.7%;吲哚丁酸、C-751激素(环烷酸钠)、乙酸次之,但和对照相比也有不同程度的增产效应,而且不降低其原有的营养价值。

关键词 [激素](#) [香菇](#) [实体生长](#) [生理效应](#)

分类号

PHYSIOLOGICAL EFFECTS OF HORMONES ON THE GROWTH OF FRUIT-BODIES IN LENTINUS EDODES

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Abstract

Abstract The regulation of hormones are shown in *Lentinus edodes* by wood shaving spawn culture. The growth and development of fruit-bodies can be promoted with various hormones. The biological efficiency of different concentration of gibberellin, triacontyl alcohol, C-751 and NAA to *Lentinus edodes* was studied. The yields (fresh weight) of sporophores of *Lentinus edodes* had increased 41.4% and 39.7% than control with 1 ppm triacontyl alcohol and 5 ppm gibberellin respectively. On the other hand, increase of the yields with 6 ppm IBA, 100 ppm C-751 and 15 ppm NAA shared 24.9%, 17.8% and 5.1%. However, it is no influence on the content of the major nutrients (carbohydrate, protein, fat) of *Lentinus edodes*.

Key words [physiological effect](#) [fruit-bodies](#) [edodes](#)

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