

## 甘薯天蛾虫蛹蛋白水解特性及其氨基酸营养液的制作工艺研究

### Studies on the Enzymatic Hydrolysis of Sweet Potato Sphinx Pupa Protein and the Processing Technique of Amino Acids Nutrition Liquid

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英文关键词: Sweet potato sphinx Papain Amino acids Nutritious liquid

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中文摘要:

甘薯天蛾虫蛹用远天23和远天12蛋白酶水解,当底物鲜虫蛹液12mL(浓度为20%,W/V),添加1%酶液1mL,其适宜的水解条件:pH6~7,50℃水解120min并加热至70℃继续水解30min;远天23的酶解效果优于远天12,添加磷酸(钠)盐和EDTA2Na可增加可溶性含氮物总量,添加VC则无效;底物粗蛋白的提取率为81.2%。文章对虫蛹氨基酸营养液的制作工艺、配方及产品质量要求等亦做了介绍。

英文摘要:

The proteins of sweet potato sphinx pupa were hydrolyzed by the proteinases of YT(Yuan-tian) 23 and YT 12. Its optimum hydrolysis condition was that pH 6~7, at 70 °C for 30 min after hydrolysed at 50 °C for 120 min, with the substrate concentration of fresh pupa 12 mL(20 %, W/V) and 1 % proteinase liquid 1 mL, The proteinase YT 23 showed a higher hydrolysis rate than that of YT 12. An extract rate of soluble nitrogens from total clude protein was 81.2 % when hydrolyzed. Adding the EDTA 2 Na and phosphate can increase the output of soluble nitrogens but not for the Vc. The processing technique of amino acids nutritious liquid of the pupa, formula and quality standard of product was reported in the article.

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