

论文

杨树菇抑菌活性提取物理化性质的初步研究

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摘要:

研究了杨树菇发酵液抗菌活性物质对温度, 紫外线, pH变化及蛋白酶的稳定性; 利用pH纸色谱, 捷克八溶剂系统纸色谱等方法对抗菌活性物质水溶性, 离子特性等性质进行了早期鉴别. 结果表明, 该物质为弱酸性, 极性较强, 能溶于水等极性有机溶剂, 对温度, 紫外线, pH值及蛋白酶较稳定. 为这一抗生物质的进一步纯化和结构分析奠定了基础.

关键词: 杨树菇 抑菌物质 理化性质

Physicochemical properties of antimicrobial substances from *Agrocybe aegerita*

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Abstract:

The effects of temperature, UV, pH changes and protease on the antimicrobial substances in *Agrocybe aegerita* fermented broth were studied. The water solubility and ion characteristics of the antimicrobial substances were analyzed by pH paper chromatography and Jack's eight solvent system paper chromatography. The results of early identification show that the substances are weak acid, polar, soluble in water and polar organic solvent, and that they are stable when influenced by heat, UV, pH and protease. The physical and chemical properties provide a scientific basis for the further purification and analysis of the structure of the antimicrobial substances.

Keywords: *Agrocybe aegerita* antimicrobial substances physicochemical properties

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