

论著

蜂胶乙醇提取物基因抗突变作用的研究

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收稿日期 2004-4-12 修回日期 2004-8-29 网络版发布日期:

摘要 背景与目的: 探讨蜂胶乙醇提取物对噻替哌等诱变剂诱发的基因突变的抑制作用。材料与方法: 用Ames试验检测蜂胶乙醇提取物的诱变性及对噻替哌、阿霉素、吖啶橙诱发的TA98和TA100菌株回复突变后的抑制作用。结果: 在10~1 000 μg/皿蜂胶乙醇提取物对TA98和TA100菌株未出现回变菌落数的增高。10~250 μg/皿蜂胶浓度出现中等强度或以下强度抑制(抑制率< 75 %); 1 000 μg/皿蜂胶浓度出现高强度回变菌落数抑制, 且对试验所设3种诱变剂诱发的基因突变的抑制作用均有剂量_效应关系。结论: 蜂胶对噻替哌等诱变剂所诱发的不同类型的基因突变均有不同程度的抑制作用。

关键词 [蜂胶](#); [诱变剂](#); [Ames试验](#); [基因突变](#)

Antagonistic Effect of Propolis on Mutation Induced by Thiotepa, Adriacin and Acridine Orange

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Abstract BACKGROUND & AIM: To study the antagonistic effect of propolis on gene_mutation induced by thiotepa and other strong mutagens. MATERIAL AND METHODS: Using Ames_test, the antagonistic effect of propolis to reverse mutation of strains TA100 and TA98, which induced by thiotepa, adriacin and acridine orange, were assessed. RESULTS: The propolis inhibited all the mutations induced by the three kind of mutagens and showed dose_effect relationship. Dose of 10~250 μg/plate of propolis could inhibit mutations by the middle intensity or below (restrain rate<75 %). At dose of 1 000 μg/plate of propolis could strongly inhibit mutations induced by thiotepa, adriacin, and acridine orange. There were no mutant character of the propolis. CONCLUSION: There were antagonistic effect of propolis to gene_mutation induced by different kinds of mutagen, such as adriacin.

Keywords [propolis](#) [mutagen](#) [Ames test](#) [gene mutation](#)

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