

论著

# 全蝎乙醇粗提取物离体抗突变研究

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**摘要** 目的:研究全蝎乙醇提取物是否具有抗突变效应。方法:本文利用沙门氏菌/微粒体致突变性试验,对全蝎和几味中药的乙醇粗提取物(简称全蝎乙醇提取物,SEE)的抗突变作用作了研究。结果:剂量在25 - 100μl/皿时,SEE对终致突变物敌克松(Dexon)诱发的TA98 回复突变无明显影响;对终致突变物叠氮钠(NaN3)诱发的TA100 回复突变也无明显影响。但在同样剂量下,SEE 能明显抑制间接致突变物2 - 氨基苄(2 - AF)诱发的TA98 回复突变。SEE 剂量为25μl/皿、50μl/皿和100μl/皿,2 - AF 为15μg/皿时,TA98 的相对回复突变菌落数分别为1985 ±483、1232 ±176 和792 ±170,与阳性对照组值3182 ±784 相比,分别具有显著(P < 0.05)和极显著(P < 0.01)差异;相对回复突变菌落数的抑制率分别为38.06%、61.90%和75.11%。显而易见,抑制率的增高取决于SEE 的剂量。结论:这些结果表明SEE 很可能是一种2 - AF 的抑制剂。SEE 对2 - AF 的抗突变作用,可能主要归咎于对S9 混合物的影响。

关键词 [全蝎乙醇提取物](#) [抗突变性](#) [沙门氏菌/微粒体致突变性试验](#) [2 - 氨基苄](#)

## STUDY ON IN VITRO ANTIMUTAGENICITY OF ETHANOL EXTRACT OF SCORPION

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**Abstract** Purpose and Methods : Antimutagenicity of ethanol extract of scorpion and some Chinese medicinal herbs (SEE) was investigated using a S almonella typhimurium/ mammalian microsome assay in the paper. Results :At 25 - 100μl/ plate , SEE had no effect on TA98 revertant s induced by the ultimate mutagen , Dexon and neither on TA100 revertant s by the ultimate mutagen , sodium azide (NaN3) . But the revertant s of TA98 induced by promutagen , 2 - aminofluorence (2 - AF) was significantly inhibited by SEE at same dosage. The relative revertant s of TA98 were 1985 ±483、1232 ±176 and 792 ±170 respectively at 25μl/ plate , 50μl/ plate and 100μl/ plate of SEE with 15μg/ plate of 2 - AF. In comparasion with positive cont rol (3182 ±784) , the relative revertant s at 25μl/ plate、50μl/ plate and 100μl/ plate had significant and very significant statistical difference ( P< 0. 05 and P < 0. 01) and the inhibitory percentages of the relative revertant s were 38. 06 % , 61. 90 % and 75.11 % respectively. It was obvious that the increase of inhibitory percentages depended upon the dose of SEE.Conclusion : These result s indicated that SEE was a possible inhibitor of 2 - AF. Antimutagenicity of SEE toward 2 - AF could be attributed primarily to the effect of SEE on S9 mixture.

**Keywords** [ethanol extract of scorpion](#) [antimutagenicity](#) [2 - aminofluorence](#) [Salmonella typhimurium/ mammalian microsome assay](#)

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