癌变.畸变.突变 ISSN: 1004-616x CN:44-1063/R 2007; 19(4) :328-330

检测研究

葡萄籽提取物对老龄大鼠MDA、GSH_Px 、SOD的影响

马中春 陈小青 龙再浩

宁波出入境检验检疫局，浙江 宁波

收稿日期 2006-5-31 修回日期 2006-5-31 网络版发布日期:

摘要 背景与目的: 探讨不同浓度的葡萄籽提取物(GSE)对老龄大鼠抗氧化的作用。 材料与方法: 取wistar大鼠40只，设葡萄籽提取物0.1、0.5、2.5 g/kg 3个剂量组和1个溶剂对照组，每组10只，灌胃给予受试物，每天1次，连续60 d。于第61 d股静脉取血并杀鼠取肝脏制备肝匀浆,分别测定血清过氧化脂质(MDA)和谷胱甘肽氧化酶(GSH_Px)、肝组织超氧化歧化酶(SOD)。 结果: 3个剂量组SOD活性与溶剂对照组比较差异均无统计学意义(P>0.05)。仅2.5 g/kg剂量组所测的MDA含量和GSH_Px与溶剂对照组比较差异均有统计学意义(P<0.01)。 结论: 葡萄籽提取物有降低雌性老年大鼠(鼠龄15个月)血清中MDA含量、升高血清中GSH_Px活性的作用，提示其具有一定的抗氧化作用。

关键词 葡萄籽提取物； 抗氧化作用； MDA； GSH_Px； SOD

Antioxidation Effects of Grape Seed Extract Panax Capsule on Old Female Rats

MA Zhong_chun,CHEN Xiao_qing,LONG Zai_hao

Ningbo Entry_exit Inspection and Quarantine Bureau,Ningbo

Abstract BACKGROUND & AIM: To investigate the antioxidation effects of Panax capsule with grape seed extract(GSE) on old rats with different doses . MATERIALS AND METHODS: Three different doses(0.1、0.5、2.5 g/kg) and a control group(were dosed through mouth with solvent only) were administered through mouth to three experiment groups,respectively, once per day for 60 days. On the 61 day, All the rats were killed through vein exsanguinate.The blood and the liver were obtained from the rats and were disposed, respectively.The content of serum MDA ,activation of GSH_Px and SOD were detected. RESULTS: The results showed no significant differences between the three experiment groups and the control group about the activation of SOD(P>0.05). However, there were significant differences between the experiment group (2.5 g/kg) and the control group both about the content of serum MDA and the activation of GSH_Px . CONCLUSION: Panax capsule with GSE could decrease the content of serum MDA of the old female rats (age 15 monthes) and increase the activation of GSH_Px. It can be concluded that Panax capsule with GSE has the effect of antioxidation.

Keywords grape seed extract antioxidation MDA GSH_Px SOD

DOI

通讯作者