

生命科学

杞芪灵芝多糖的毒性

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摘要:

采用霍恩氏法研究杞芪灵芝多糖的急性毒性, 采用骨髓细胞微核实验、小鼠精子畸形实验和Ames实验研究杞芪灵芝多糖的遗传毒性. 实验结果表明:

杞芪灵芝多糖经灌胃给药, 其半数致死量为LD₅₀ >21 500 mg/kg, 基本无毒; 在骨髓细胞微核实验中, 微核出现率与阴性对照组相比, 无显著性差异; 精子畸形实验中, 精子畸形率也无显著性差异; Ames实验中的各浓度下, 无论是否加入S₉, 回变菌落数均未大于自发回变数的2倍. 表明杞芪灵芝多糖无急性致毒性和遗传致毒性.

关键词: 多糖; 遗传毒性; Ames实验; 微核实验; 安全性

Toxicity of Polysaccharides from Qiqi Lingzhi Physic Liquor

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Abstract:

The genetoxic of polysaccharides from Qiqi Lingzhi physic liquor was studied by mice bone marrow cell micronuclei test, mice testicular chromosome aberration test and Ames test. Acute toxicity test used the method of Huo Enshi. The acute toxicity test of Qiqi Lingzhi polysaccharides showed that the LD₅₀ >21 500 mg/kg. Little cytotoxicity was found in the bone marrow cell micronucleus test. No conspicuous teratogenic effect was observed in the test of teratospermia of mice. In the quaque concentration of Ames test, there was no mutagenesis. These results suggest that Qiqi Lingzhi polysaccharides have little toxicity and genetoxic that can be safely used in the long term.

Keywords: polysaccharides genetoxic Ames test micronucleus test safety

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