A 90-DAY ORAL TOXICITY STUDY OF SUBMERGED FERMENTATION MYCELIAL OF OPHIOCORDYCEPS SINENSIS H101 IN MICE.

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ABSTRACT

Ophiocordyceps sinensis is a precious Chinese herbal medicine with widely medicinal and health promotion functions. This study evaluated subchronic toxicity including possible toxicity of freeze-dried mycelial powdered by a new strain O. sinensis H101 (Os) in male and female CD-1 (ICR) mice. The Os powder was administered orally once daily at dose levels of 0, 400, 800 and 2,000 mg/kg/day for 90 days. A toxicological assessment was performed, which included mortality, clinical signs, body and organ weights, food consumption, ophthalmology, hematology, serum chemistry, histopathologic examination. Os powder did not cause death, adverse effects or food consumption but slightly affect body weight gain. There were no Os related findings in clinical signs, hematology and serum chemistry, gross examination, histopathologic examination. In conclusion, the NOAEL (No Observed Adverse Effect Level) for Os freeze-dried mycelial powdered was determined as 2000 mg/kg/day in both sexes of mice under the present experimental conditions.

Keywords: Ophiocordyceps sinensis, 90-day oral Toxicity

REFERENCES
