



## Evaluation of Antitumour and Antiinflammatory Effects and Acute Toxicity of Extracts Obtained from *Streptomyces* spp. Isolated from Soils of Paraiba (Brazil)

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**SUMMARY.** Bioactive metabolites produced by *Streptomyces* spp. commonly exhibit a variety of pharmacological properties such as antibiotic, antitumor, enzymatic and anti-helminthic. The study evaluated the possible antitumor and anti-inflammatory effects and the degree of toxicity of extracts isolated from *Streptomyces* in experimental models with animals. The extracts Sp-1 and Sp-3 did not have anti-inflammatory effect. In the Sarcoma 180 model the effects of Sp-1 and Sp-3 were significant with decreased average weights of tumors at 10 mg/kg, and reduction of up to 73 % of initial weight of the implanted tumor. For tumors of Ehrlich Carcinoma, the doses showed no significant effect on the average weight of tumors. Stimulant effects, such as exophthalmia, agitation, escape reaction, irritability, tremors and dermatitis were observed after 1 h of administration, depressive reactions were also observed, such as prostration and decreased respiratory rate, and no deaths were highlighted.

**KEY WORDS:** Antitumour, Extract, Soils, *Streptomyces*, Toxicity.

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