

Inhibitory activity of a compound isolated of *Selaginella lepidophylla* on rat's uterus

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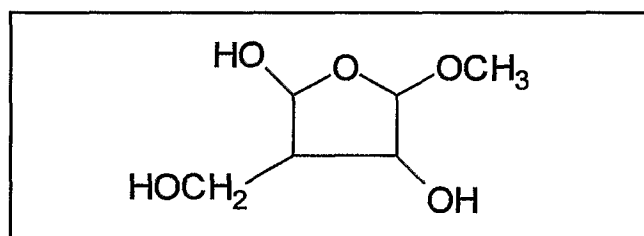
INTRODUCTION

Selaginella lepidophylla known as "doradilla" grows in arid regions of the southwest U.S.A. and into Mexico this plant

Pharmacologic method. Wistar female rats (220-250 g) were housed in isolated cages under artificial light (dark: noon 10.00 pm) and supplied with Purina and water *ad libitum*.

Fig. 1

Structure suggested for the compound isolated from *Selaginella lepidophylla*



^1H NMR (360 MHz, DMSO) spectrum showed signals for Methoxyl group at 3.45 (s), 4.65 (d), 4.8 (d), 4.9 (d).

The ^{13}C NMR spectrum (table 1) contains signals of five carbon atoms bearing oxygen function.

EIMS (probe) 70 eV m/z (rel. int.) 145 [$m-1$] $^+$ ($\text{C}_6\text{H}_9\text{O}_4^+$), 127 (20), 84 (10), 73 (98). The structure suggested for this compound is showed in figure 1.

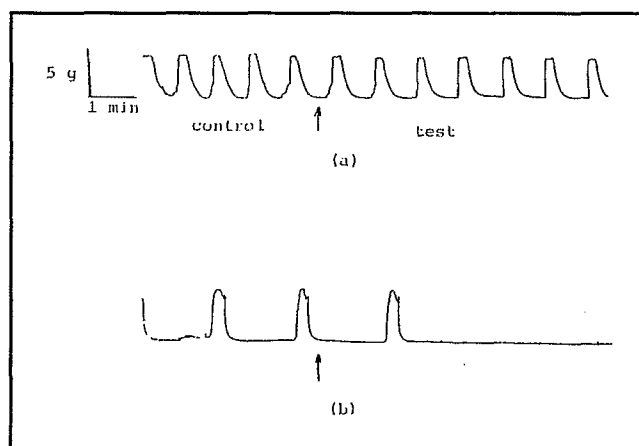
In figure 2 is shown the inhibition of contractile response of rats uterus with dose of 10 mg/ml of the cristals. In the presence of 5 mg/ml it was observed 50 % inhibition and with 10 mg/ml was 60 %.

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Fig. 2

Effect of compound isolated from *Selaginella lepidophylla* on rat's uterus



(a) (mg; (b) 10 mg.

The arrow indicates the application of the compound.