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Nociceptive Evaluation of the Lyophilized Extract of *Lupinus mutabilis* sweet (Tarwi) in Experimental Animals

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ABSTRACT

Objective: To determine by means of the plantar test (hargreaves method) in albino rats the nociceptive effect of the lyophilized extract of *Lupinus mutabilis* sweet (Tarwi).

Materials and Methods: Experimental research using a method of measuring thermal nociception in cutaneous hyperalgesia in animal models, taking into account the IASP Guide and ethical management regarding experimental pain in animals. The nociceptive effects of the lyophilized extract of *Lupinus mutabilis* Sweet (Tarwi) compared to Placebo and Morphine were evaluated, observing the paw withdrawal time using a plantar test kit in albino rats.

Results: The response of the thermal heat produced in planting tests in the albino rats treated with the lyophilized extract of *Lupinus mutabilis* Sweet (Tarwi) administered at the rate of 1000 doses. 1250, 1500 and 1800 mg / Kg, regarding the nociceptive effect in the times of reaction (TR) in the evaluated time 15, 30 and 60 min was evaluated as having the Tukey pairing test.

Conclusion: Statistical significance and effect were found in the Plantar Test in albino rats to assess the antinociceptive effect.

Keywords: Plantar test, *Lupinus mutabilis*, nociception, Hargreaves method.