

Anti-Inflammatory Activity of *Lavandula antineae* Maire from Algeria

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Abstract : *Lavandula antineae* Maire is an endemic medicinal plant of Algeria which is traditionally used for the treatment of chills, bruises, oedema and rheumatism. The objective of this study is to evaluate the anti-inflammatory of hydromethanolic aerial parts extract of *Lavandula antineae* for the first time using carrageenan-paw edema and croton oil-ear edema models. The plant extract, at the dose of 200 mg/kg, showed a significant anti-inflammatory activity ($P < 0.05$) in the carrageenan induced edema test in mice, showing 80.74% reduction in the paw thickness comparable to that produced by the standard drug aspirin 83.44% at 4h. When it was applied topically at a dosage of 1 and 2 mg per ear, the percent edema reduction in treated mice was 29.45% and 74.76%, respectively. These results demonstrate that *Lavandula antineae* Maire extract possess remarkable anti-inflammatory activity, supporting the folkloric usage of the plant to treat various inflammatory and pain diseases.

Keywords : *lavandula antineae* maire, medicinal plant, anti-inflammatory activity, carrageenan-paw edema, croton oil-ear edema

Conference Title : ICSRD 2020 : International Conference on Scientific Research and Development

Conference Location : Chicago, United States

Conference Dates : December 12-13, 2020