



Evaluation of Acute Toxicity of *Helichrysum Arenarium* Aqueous Extract in Swiss Albino Mice

Mounira MERGHEM^{1,**}, Khadidja DEHIMI¹, Rima ALLOUNI¹, Karima LOUCIF¹, Rafika LEBAZDA¹,
Farouk MADANI¹

¹ Faculty of Natural and Life Sciences, Ferhat Abbas University, Sétif, Algeria.

****Corresponding author e-mail:** mouniramergthem@yahoo.fr

ABSTRACT: *Helichrysum arenarium* is a medicinal plant from the *Asteraceae* family, used as an antimicrobial and for the treatment of digestive diseases such as indigestion and anorexia. The aim of this study is to evaluate the acute toxicity of *Helichrysum arenarium* aqueous extract. The mice were divided into three groups each with 3 mice, the first group received distilled water, the second and third groups were administered orally at single dose of 2000 mg/kg and 5000 mg/kg respectively, and then observed individually for the first four hours, then over a period of 24 hours and at least once daily for 14 days. The results showed that a single administration of the aqueous extract of *Helichrysum arenarium* up to a dose of 5000 mg/kg did not cause any mortality or signs of toxicity, an increase in food consumption and body weight of treated mice compared to control, No change in organs weights. The biochemical study also showed a slight increase in ALT in rats treated with 5g/kg, a slight decrease in the levels of AST in rats treated with 2g/kg and a slight decrease in the levels of Créa in rats treated with 2g/kg and 5g/kg in comparison to the control rats.

Keywords: *Helichrysum arenarium*, Acute Toxicity, Aqueous Extract, Biochemical Parameters

ICOFAAS 2024



CERTIFICATE

Merghem MOUNIRA

OF PARTICIPATION

has participated in 6th International conference on Food, Agriculture and
Animal Science on 19-22 December 2024 at Erzurum/Turkey

PAPER TITLE Evaluation of Acute Toxicity of Helichrysum Arenarium Aqueous Extract in Swiss
Albino Mice

PRESENTATION TYPE

Oral

ICOFAAS 2024 CONFERENCE CHAIRMAN

Asst. Prof. Dr. Fazıl HACİMÜFTÜOĞLU