

CERTIFICATE



of PARTICIPATION

Saliha LAOUİCHA

We would like to thank you for your contributions as a participant with poster presentation entitled

«Anti-Inflammatory Activity of Ethyl Acetate and Butanolic Extracts of Arbutus unedo

L.»

To the 5th International Conference on Food, Agriculture and Animal Sciences held in Antalya/TURKEY, 23-26 November 2023

Chair of ICOFAAS 2023

ICOFAAS 2023

5TH INTERNATIONAL CONFERENCE
ON FOOD, AGRICULTURE AND ANIMAL SCIENCES
23-26 NOVEMBER 2023
ANTALYA, TURKEY
(FACE TO FACE AND ONLINE)





5TH INTERNATIONAL CONFERENCE ON FOOD AGRICULTURE AND ANIMAL SCIENCES PROCEEDING BOOK

ISSUED: 24/12/2023

ISBN: 978-625-99950-1-4

2023

INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND ANIMAL SCIENCES



International Conference on Food, Agriculture and Animal Sciences 23-26 November 2023, Antalya, TURKEY



Anti-Inflammatory Activity of Ethyl Acetate and Butanolic Extracts of *Arbutus unedo* L.

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ABSTRACT: The growing concern for the side effects and toxicity experienced with the use of currently available anti-inflammatory drugs makes it necessary to search for novel compounds. Medicinal plants provide a ready source of anti-inflammatory agents with minimal side effects. The present study is devoted to evaluate the anti-inflammatory activity of the ethyl acetate and butanolic extracts from the leaves of *Arbutus unedo* L. using croton oil-induced ear edema in mice and human red blood cell membrane stabilization method. Results showed that the topical application of 2 mg/ear of ethyl acetate or butanolic extract reduced the ear edema induced by croton oil with an inhibition of 74% and 66%, respectively. This value is better than those obtained with indomethacin, used as reference. On the other hand, the ethyl acetate and butanolic extracts inhibited the erythrocytes hemolysis by 96% and 97% respectively against 98% exerted by diclofenac. Our finding may indicate the possibility of using the extracts of *Arbutus unedo* L. to prevent the inflammatory processes.

Keywords: Inflammation, Anti-inflammatory activity, Arbutus unedo L., Edema, Medicinal plants