

REPUBLIC OF CAMEROON

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**NATIONAL COUNCIL OF PHARMACEUTICAL SOCIETY OF CAMEROON**

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**SCIENTIFIC COMMITTEE OF CAMEROON PHARMA EXPO 2023**

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REPUBLIQUE DU CAMEROUN

Paix – Travail – Patrie

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**CONSEIL NATIONAL DE L'ORDRE DES PHARMACIENS DU CAMEROUN**

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**COMITE SCIENTIFIQUE CAMEROUN PHARMA EXPO 2023**

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*email: secretariat@pharma-expo-cameroun.org*

**1er FORUM INTERNATIONAL CAMEROUN PHARMA EXPO EDITION 2023**

**Thème général**

**« UN DIPLOME : PLUSIEURS METIERS »**

Soumission d’abstract chapeau de métiers……...sous-thème……

**TITRE ABSTRACT “Time new roman, taille/size 14 majuscule/capital letter”**

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**RESUME/ABSTRACT (max 180 mots) taille new roman taille 12**

**Background:** The monoterpene b-myrcene has been widely used in cosmetics, food and beverages, and it is normally found in essential oil from citrus fruit.

**Objectives/Objectifs :** The aim of this study was to investigate the anti-ulcer effects of b-myrcene on experimental models of ulcers that are induced by ethanol in order to compare with the essential oil of Citrus aurantium and its major compound limonene.

**Methology/Méthodologie:** The method described by Robert et al. [14] was followed with slight modifications. Fasted rats (12 h) were randomly divided into five groups (n = 7) and given b-myrcene at doses of 3.75, 7.50 and 11.25 mg/kg body weight, 100 mg/kg carbenoxolone (positive control) or 8% Tween-80 (vehicle). One hour later, all groups were treated orally with 1 mL absolute ethanol to induce gastric ulcers. After 1 h of induction, the animals were sacrificed and their stomachs were removed to evaluate the extent of the lesions, as previously described. Strips of the stomach (effective dose) were removed, weighed and stored for subsequent biochemical procedures.

**Results/ Résultats:** . The results indicate that the oral administration of b-myrcene at a dose of 7.50 mg/kg has important anti-ulcer activity with significantly decreased gastric and duodenal lesions as well as increased gastric mucus production. The results showed treatment with b-myrcene caused a significant increase in mucosal malondialdehyde level (MDA), an important index of oxidative tissue damage.

**Conclusion:** Our results reveal, for the first time, the importance of b-myrcene as an inhibitor of gastric and duodenal ulcers and demonstrate that an increase in the levels of gastric mucosa defence factors is involved in the anti-ulcer activity of b-myrcene.

**Keywords:** b-Myrcene, Peptic ulcer, Gastroprotection (max 3)

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