

REVIEWER'S REPORT

Manuscript No.: IJAR-54026

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Title: STRUCTURAL AND ANTIBACTERIAL STUDIES OF THE CONSTITUENTS OF THE ESSENTIAL OIL OF CLEISTOPHOLIS PATENS ENGL. & DIELS COLLECTED IN GAGNOA (CÔTE D'IVOIRE)

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		X		
Techn. Quality		X		
Clarity			X	
Significance			X	

Reviewer Name: Dr Lakhdar Guerine

Date:

Detailed Reviewer's Report

This study investigated the essential oil from the leaves of *Cleistopholis patens* collected in Gagnoa (Côte d'Ivoire). Hydrodistillation yielded 0.21%. Sixteen compounds, representing 95.75% of the total composition, were identified, mainly monoterpenes and sesquiterpenes. Antibacterial tests revealed significant activity against several strains, with confirmed bactericidal effects. These findings highlight the pharmacological and industrial potential of this oil.

Strengths

- 1) Rigorous methodological approach combining GC-MS and NMR.
- 2) Clear demonstration of significant, dose-dependent antibacterial activity.
- 3) Novel contribution on a locally understudied medicinal plant.

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Weaknesses

- a) Low essential oil yield may limit large-scale applications.
- b) Comparative discussion with other essential oils remains limited.
- c) Lack of toxicological assessment or in vivo studies to confirm safety.

Recommendation:

This work would require a strengthened comparative discussion and the addition of perspectives on practical applications and safety.