

REVIEWER'S REPORT

Manuscript No.: IJAR-55326

Title: Phytochemical study and anti-inflammatory activities of Citrus aurantifolia (Rutaceae) leaves collected in the region of Yamoussoukro, Ivory Coast.

Recommendation:

Accept as it is ☐☐☐☐

Accept after minor revision ☐☐☒☐☐

Accept after major revision ☐☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

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

Reviewer Name: Sakshi Jaju

Reviewer's Comment for Publication.

This study evaluated the phytochemical composition and anti-inflammatory (anti-arthritis) activity of the aqueous extract of Citrus aurantifolia leaves in rats with Freund's adjuvant-induced arthritis. The extract contained flavonoids, tannins, polyphenols, alkaloids, saponins, sterols, and terpenes, and showed a dose-dependent reduction in paw edema, comparable to diclofenac.

Strength:

1. Clear aim and well-defined experimental model
2. Use of a standard reference drug
3. Demonstrates dose-dependent anti-inflammatory effect
4. Supports traditional medicinal use of the plant

Weakness:

1. Language and grammar need improvement
2. No detailed toxicity or safety evaluation
3. Limited statistical depth and no mechanistic insight
4. Only aqueous extract studied

Overall assessment:

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The article presents useful experimental evidence for the anti-inflammatory potential of Citrus aurantifolia leaves. With language editing and minor methodological improvements, it is suitable for publication.

Recommendation: Manuscript accepted for publication after minor corrections.