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REVIEWER'S REPORT

Manuscript No.: IJAR-53004

Date: 25.07.25

Title: Cognitive-Enhancing Effect of Ethyl acetate fraction of Erythrophleum ivorense stems bark against Ketamine-induced Memory Impairment in Mice

Recommendation:

Accept as it is YES

Accept after minor revision...

Accept after major revision

Rating	Excel.	Good	Fair	Po
Originality			√	
Techn. Quality		√		
Clarity		√		
Significance		√		

Reviewer Name: PROF DR DILLIP KUMAR MOHAPATRA

Date: 25.07.25

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Detailed Reviewer's Report

This study investigates the cognitive-enhancing effect of the ethyl acetate fraction of Erythrophleum ivorense stems bark against ketamine-induced memory impairment in mice. Although the specific study details are not provided, existing research on Erythrophleum ivorense and ketamine's effects on cognition offers valuable insights.

Theoretical Contributions

- **Mechanism of Action:** The study provides insights into the potential mechanisms underlying the cognitive-enhancing effects of the ethyl acetate fraction of Erythrophleum ivorense.
- **Phytochemical Analysis:** The extract's phytochemical composition may contribute to its cognitive-enhancing and antioxidant activities.

Future Research Directions

- **Isolation of Active Compounds:** Further studies could focus on isolating the active compounds responsible for the cognitive-enhancing effect.
- **Mechanistic Studies:** Elucidating the underlying mechanisms of the cognitive-enhancing effect would provide valuable insights.