

REVIEWER'S REPORT

Manuscript No.: IJAR-58470

Title: Comparative Pharmacognostical, Physicochemical and Preliminary Phytochemical Evaluation of Seeds of Karanja (Pongamia pinnata) and Palasha (Butea monosperma).

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 ID: JP085

Reviewer's Comment for Publication.

This manuscript presents a comparative pharmacognostical, physicochemical, and preliminary phytochemical evaluation of Karanja (*Pongamia pinnata*) and Palasha (*Butea monosperma*) seeds. The study provides useful identification parameters, quality control standards, and phytochemical profiles that may aid in the authentication and standardization of these medicinal plants. The work is relevant to pharmacognosy and Ayurvedic drug standardization.

Strength:

1. Novel comparative pharmacognostic study.
2. Well-defined methodology.
3. Comprehensive physicochemical evaluation.
4. Useful phytochemical and TLC analysis.
5. Relevant for herbal drug standardization.
6. Supported by classical and scientific references.

Weakness:

1. Advanced analytical techniques (HPLC/GC-MS) were not performed.
2. Quantitative estimation of phytochemicals is lacking.
3. No pharmacological validation of the findings.
4. Sample size and collection details need more clarity.
5. Minor language and formatting corrections are required.
6. Discussion could include more comparison with recent studies.

Overall assessment:

The manuscript provides valuable comparative data on the pharmacognostic, physicochemical, and phytochemical characteristics of Karanja and Palasha seeds. The study contributes to the standardization and authentication of Ayurvedic medicinal plants. However, inclusion of advanced analytical techniques,

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quantitative phytochemical analysis, and minor language and formatting revisions would further strengthen the manuscript.

Recommendation: Manuscript accepted for publication after minor revision.