

REVIEWER'S REPORT

Manuscript No.: IJAR-55420

Date: 24/12/2025

Title: Pharmacognostical, Fluorescence analysis, Heavy metal testing and TLC profiling of Bougainvillea glabra

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.

The study evaluates Bougainvillea glabra leaves using pharmacognostical, physicochemical, phytochemical, fluorescence, heavy metal testing, and TLC methods. The results show the presence of many useful phytochemicals, absence of heavy metals, and TLC spots suggesting flavonoids and coumarins. The work supports the plant's potential medicinal value.

Strength:

1. Well-structured and systematic study
2. Uses standard pharmacognostical and phytochemical methods
3. Heavy metal analysis improves safety relevance
4. TLC profiling gives preliminary evidence of active compounds

Weakness:

1. Study is mainly preliminary; no quantitative or advanced analysis
2. No pharmacological or biological activity testing
3. Language and grammar need minor improvement
4. Results need confirmation using advanced techniques.

Overall assessment:

The article is useful for standardization and preliminary evaluation of Bougainvillea glabra. It is suitable for publication after minor improvements and with scope for future advanced studies..

Recommendation: Manuscript accepted for publication.