

Constituents of the Essential Oil From the Leaves of *Lantana Indica* Aculeata Tribal Medicine

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DOI: <https://doi.org/10.51584/IJRIAS.2025.100500022>

Received: 24 April 2025; Accepted: 28 April 2025; Published: 31 May 2025

ABSTRACT

The essential oil from the leaves of *Lantana aculeata* was analysed by GLC The major constituents found were caryophyllene-18 89%, a-terpineal- 7.12%, bornyl acetate-10.50% and a-bornyl 7.20%

Key Words: *Lantana aculeata*, Essential oil, verbanaceae

Plant Name: *Lantana aculeata* (N.O. verbanaceae)

Source:

The plant part (leaves) was collected from Patharia Hills, Sagar in September 96 and a then dictated by Department of Botany. Dr. Hari Singh Gour University, Sagar M.P India

Plant Part:

Leaves steam distillation produced oil 0.15% yield

Previous Work:

The morphological characters of *Lantana aculeata* have been described in various publications Previously many essential oils were identified from the leaves of *Lantana aculeata*, of which major once were sesquiterpene, l-a-pheilandrene, caryophyllene small aldehydes and alcohol.

Present Work:

The leaves of *Lantana aculeata* were found to consist of following constituents by GLC analysis and their structure confirmed by its IR spectroscopy The confirmation about identification of the constituents was done by CO-GLC analysis as well as by comparison of the retention time. The constituents identified in the oil were as follows:

Compound	Percentage (%)
α -Pinene	2.24
Limonene	4.25
α -Thujene	9.40
β -Pinene	4.12
d-Cadinene	2.05

α -Terpineol	7.12
Bornyl Acetate	10.50
α -Bornyl	7.20
Caryophyllene	11.62
Terpenyl Acetate	4.20
Myrcene	2.50
Camphene	4.20
Unidentified	0.73
Methyl Chavicol	3.00
Eugenol	5.82
d- α -Phellandrene	18.89

ACKNOWLEDGMENT

The authors are thankful to MP Council of Science and Technology Bhopal, India for financial support.

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