



**RESEARCH ARTICLE :**

## Analysis of chemical compounds from the withered brown leaves of *Tectona grandis*

■ **B. VINOETHINI, R. REVATHI, V. PRIYANKA AND D. UMA**

**ARTICLE CHRONICLE :**

**Received :**

11.07.2017;

**Accepted :**

26.07.2017

**SUMMARY :** Plant metabolites play a special role in the maintenance of good health. India is rich in natural wealth and there is an ample scope to explore phytochemicals from the plant kingdom. Trees are also one of the important sources of secondary metabolites. *Tectona grandis* (Teak) one of the best-known tropical timbers, is native to the Indian subcontinent which extends to areas like Myanmar, Thailand and Laos. The whole plant is also medicinally important as it contains enormous number of phytoconstituents which helps in curing the ailments. The GC - MS analysis of withered brown leaves of *Tectona grandis* showed 26 compounds of which squalene, dibutyl phthalate, geranyl-p-cymene and caryophyllene oxide showed the greatest contribution to the percentage of the total area.

**How to cite this article :** Vinothini, B., Revathi, R., Priyanka, V. and Uma, D. (2017). Analysis of chemical compounds from the withered brown leaves of *Tectona grandis*. *Agric. Update*, **12**(TECHSEAR-1) : **178-181**; DOI: **10.15740/HAS/AU/12.TECHSEAR(1)2017/178-181**.

**KEY WORDS :**

*Tectona grandis*,  
Brown leaf, Methanol,  
GC-MS, Metabolites,  
Squalene

**Author for correspondence :**

**B. VINOETHINI**

Forest College and  
Research Institute,  
Tamil Nadu Agricultural  
University,  
METTUPALAYAM (T.N.)

INDIA

Email:vinothinimormon@  
gmail.com

See end of the article for  
authors' affiliations