

## COMPARATIVE ANALYSIS OF ESSENTIAL OILS OF BUDS AND FLOWERS OF *DRACAENA FRAGRANS*

T MODAK DHAR<sup>1</sup>, S. R. MAJI<sup>2</sup> AND M. GHOSH<sup>3\*</sup>

---

*The flowers of Dracaena fragrans release the sweet and sharp aromas in the evening of early spring. The combined Gas Chromatography and Massspectrometry (GCMS) technique is considered to be most suitable and is adopted here to compare the composition of the essential oils of buds and flowers plucked trapped at 2 p.m. and 5-45 p.m. respectively. In bud stage (41.43±0.51%) Lavandulyl 2-methyl butanoate and (21.06±0.01%) Hexenal are present in higher concentration. Butanoate (3-methyl-2-butenyl-2methyl) (44.02±0.03%) and Linalool (18.94±0.11) are the principle key compounds present in the essential oil of flower. Prior to the GCMS study the essential oils of buds and flowers are trapped in HPLC grade Petroleum ether (40-60°C) and the analyzed chemical profiles are remarkably different in daytime and afternoon. The analysis of compounds suggests that the monoterpenes are less than the sesquiterpenes in both buds and flowers of this higher monocotyledonous plant.*

---

**Keywords :** *Dracaena flowers, Essential oil. GCMS, Retention Time, Sesquiterpene.*

---