

# Chemical Composition of the Essential Oil of *Phlomis linearis* Boiss. & Bal., and Biological Effects on the CAM-Assay: A Safety Evaluation

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*Phlomis linearis* Boiss. & Bal. of the Lamiaceae family growing in central, east and south-east Anatolia is an endemic species for Turkey. The essential oil obtained from the aerial parts by hydro distillation was subsequently analyzed by GC/MS. The main components of the oil were found as  $\beta$ -caryophyllene (24.2%), germacrene D (22.3%) and caryophyllene oxide (9.2%), among 49 identified compounds, representing 94.5% of the total essential oil. The overall biological activity of the essential oil (100  $\mu$ g/pellet) was tested on the chorioallantoic membrane (CAM) of the fertilized hen's egg in order to examine the anti-angiogenic and anti-inflammatory activity. None of the tests showed pronounced activity, toxicity or irritation at the tested concentration.

**Key words:** *Phlomis linearis*, Essential Oil, CAM-Assay