

The aerial part of *Phlomis brachyodon* (Boiss.) (Labiatae), which grows wild in Jordan, was powdered and extracted with ethanol. The residue after evaporation of the ethanolic extract was dissolved in water, filtered and the aqueous filtrate was extracted with ether and the ether extract discarded. Extraction of the aqueous filtrate was then affected with butanol, and the extract subjected to column chromatography to give five flavonoids: chrysoirol, kaemferol4'-methyl ether, kaemferol, astragalin and tiliroside; four iridoids: ipolamiide, 8-epiloganin, au-roside and penstemoside, in addition to -sitosterol.