



Determination of Galangin in Commercial Extracts of *Alpinia officinarum* by RP-HPLC-DAD

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SUMMARY. *Alpinia officinarum* has been used by long time in the traditional medicine and several commercial extracts containing it are available on the market. In this paper a reversed phase high performance liquid chromatography-diode array detection (RP-HPLC-DAD) method for *Alpinia officinarum* preparations was proposed using galangin as a marker. The quantification was undertaken by a combination of RP-HPLC-DAD. The LC system employed a Gemini Phenomenex RP-18 column with phosphoric acid, tetrahydrofuran and acetonitrile as mobile phase and detection at 267 nm. The method validation was throughout satisfactory. The determination coefficient was $r^2 = 0.998$ with LOD $0.48 \mu\text{g mL}^{-1}$ and LOQ $1.59 \mu\text{g mL}^{-1}$. The results of precision (RSD < 2.82) and accuracy (99.9 %, 100.4 %, 102.2 %) with RSD less than 2.7 %, were satisfactory. The analytical method was applied to commercial extracts, and was suitable to provide qualitative and quantitative information for the quality control to commercial preparations.

KEY WORDS: *Alpinia officinarum*, Galangin, RP-HPLC-DAD.

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