



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.11 No.06,pp99-107,2018

Quantitative Determination of Quercetin in *Wattakakavolubilis* (L.F) by HPTLC Technique

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Abstract:The study is mainly focused to establish the fingerprint profile of *W.volubilis* using high performance thin layer chromatography (HPTLC). A sensitive and reliable high performance thin layer chromatographic method has been developed for quantitation of quercetin in the dried flowers of *W.volubilis*. The methanolic extract was chromatographed on silica gel 60 F254 plates with toluene: ethyl acetate: formic acid, 5: 4: 1 (v/v/v), as mobile phase. Detection and quantization were performed by densitometry scanning at $\lambda = 254$ nm, by using deuterium lamp. The accuracy of the method was checked by conducting recovery studies using the standard addition method and the average recovery of quercetin was found to be 0.0640% w/w. The proposed HPTLC method provides a good resolution of quercetin from other constituents present in methanolic extract of dried flowers of *Wattakakavolubilis*. The method is rapid, simple and precise.

Key words: *W.volubilis*, Quercetin, HPTLC analysis.

Anuradha R *et al* /International Journal of ChemTech Research, 2018,11(06): 99-107.

DOI= <http://dx.doi.org/10.20902/IJCTR.2018.110614>
