

HPLC ANALYSIS OF FLAVONOIDS IN *ACHYRANTHES ASPERA* AND *CISSUS* *QUADRANGULARIS*

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ABSTRACT

Reversed phase high performance liquid chromatography (RP-HPLC) with UV detector was done for the analysis of four naturally occurring flavonoids of *Achyranthes aspera* and *Cissus quadrangularis* namely lutioline, myricetin, quercetin, kaempferol. The separation of filtered methanolic extracts of selected plants as well as a mixture of authentic standard flavonoid samples of lutioline, myricetin, quercetin, kaempferol was done within 35 min. using an RP C₁₈ column, at ambient temperature, running conditions included: injection volume 20 μ l; mobile phase: methanol: water (1:1) (0-10 and (7:3) (10-20 min), flow rate 1 ml/min; and detection at 339nm. Identifications of specific flavonoids are made by comparing their retention times with those of the standards. Three flavonoids in *Achyranthes aspera* and two flavonoids in *Cissus quadrangularis* were detected by HPLC.

KEYWORDS: *Achyranthes aspera*, *Cissus quadrangularis*, Flavonoids, Retention Time, HPLC