

## DETERMINATION OF AMINO ACIDS IN *ACHYRANTHES ASPERA* AND *CISSUS QUADRANGULARIS* BY HPLC

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### ABSTRACT

Analysis of amino acids in *Achyranthes aspera* and *Cissus quadrangularis* by reversed phase high performance liquid chromatography (RP-HPLC) with UV detector was done. Derivatization of plant samples and 16 standard amino acids were achieved by adding o-phthalaldehyde (OPA). The obtained OPA derivatives were analyzed by RP-HPLC on a C-18 column with Sodium acetate buffer and Methanol (9:1) gradient elution. The common amino acids were separated in 30 min. Amino acid peak integration was achieved by using lab chromo HPLC software. The separation of standard amino acids and IS showed 17 fine peaks in chromatograms and Twelve amino acids in *Achyranthes* and fourteen amino acids in *Cissus* were detected by HPLC.

**KEYWORDS:** Reversed Phase High Performance Liquid Chromatography (RP-HPLC), Amino Acids, Derivatization, *Achyranthes Aspera*, *Cissus Quadrangularis*