

## *IN VITRO* ESTIMATION OF POTENTIAL ANTIOXIDANT COMPOUNDS IN *TINOSPORA CORDIFOLIA* BY CHROMATOGRAPHY

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## ABSTRACT

*Tinospora cordifolia* (Willd.) Miers belonging to famiy Menispermaceae is an important medicinal plant. It is used as a rejuvenator and to improve the immunity and body resistance against a wide range of pathogenic attacks. In the present study, we have analysed the antioxidant activity of leaf explant-derived callus raised on WPM supplemented with NAA (2.0mg/L) and BA (1.0mg/L) in *Tinospora cordifolia* by qualitative/quantitative chromatographic techniques. Methanolic extracts of callus and plant parts showed the presence of ascorbic acid and gallic acid on TLC analysis. These extracts were estimated for gallic acid and ascorbic acid through HPLC using PDA detector. Higher ascorbic acid content as well as gallic acid was estimated in callus treated with 100mM NaCl after 4- weeks of growth.

KEYWORDS: Tinospora cordifolia, TLC, HPLC, Ascorbic Acid, Gallic Acid and NaCl