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HPTLC Fingerprinting of *Hemidesmus indicus* roots as a Quality Control Parameter in Herbal Formulations

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Abstract : *Hemidesmus indicus* roots have Anti-inflammatory, Anti-microbial, Anti-acne, Antioxidant, Hepatoprotective and Anti-arthritis activity. Many of its formulations are available in the market. The present work focuses on developing a simple HPTLC fingerprint of *Hemidesmus indicus* roots. Methanolic extract of the roots was prepared by maceration. This extract was used to develop a suitable mobile phase for fingerprinting. After mobile phase development involving several pilot TLC, the mobile phase showing distinct spots in TLC was found to be Chloroform: Methanol: Ethyl acetate (13:1:2). It was further subjected to HPTLC fingerprinting where R_f and Area Under Curve were calculated. HPTLC fingerprinting showed 9 peaks at 254nm and 4 peaks at 366nm. This work provides a simple technique for standardization and detection of adulteration of *Hemidesmus indicus* root formulations, many of which are available in the market, consumed by people for treatment of various disease conditions, and also investigated upon continuously considering its wide domain of pharmacological actions.

Keywords : Anantmool, *Hemidesmus indicus*, HPTLC, Quality control, Sarivaa.

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