



HPTLC Fingerprinting of *Tecomella undulata* Leaves as a Quality Control Parameter in Herbal Formulations

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Abstract : *Tecomella undulata* leaves have antibacterial, analgesic, anti-HIV and hepato protective activity. Many of its formulations are mentioned in Ayurvedic texts and available in the market as well. The present work focuses on developing a simple HPTLC fingerprint of *Tecomella undulata* leaves. Methanolic extract of the leaves 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 (4:1:5). It was further subjected to HPTLC fingerprinting where R_f and Area Under Curve were calculated. HPTLC fingerprinting showed 12 peaks at 254nm and 11 peaks at 366nm. This work provides a simple technique for standardization and detection of adulteration of *Tecomella undulata* leaf formulations, since no such work has been done on its leaves.

Keywords: Bignoniaceae, HPTLC, Rohitak, Standardization, *Tecomella undulata*, Quality control.

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