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Phytochemical Evaluation and HPTLC Fingerprint Profile of *Peltophorum Pterocarpum* (L.) Merr. Flower Extract

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ABSTRACT

Peltophorum pterocarpum traditionally been used as astringent, anti-inflammatory, carminative purgative, demulcent and anthelmintic. Phytochemical analysis of the plant showed the presence of alkaloids, carbohydrates, proteins, phytosterol, phenol, flavonoids etc. In the present study, an attempt was made to quantify the flavonoid quercetin in the flower extract. TLC was done to confirm the presence of quercetin and HPTLC method has been developed for quantification of quercetin in the ethanol flower extract. TLC silica gel 60 F 254 plate was used as stationary phase and the solvent system toluene: chloroform: ethanol (5.5:3.5:1) as the mobile phase. Quantitative analysis was carried out in the absorbance at 200, 254, 366 nm. A good linear relationship 0.99926 was obtained between the concentration ranges of 100-600 ng.

Keywords: *Peltophorum pterocarpum*, anti-inflammatory, quercetin, TLC, HPTLC.
