



**Determination of Kaempferol by HPTLC Method from
Nyctanthes Arborescens Linn Flower Extract**

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ABSTRACT

The evaluation of the composition of the phytoconstituents of the medicinally important plant Nyctanthes arborescens Linn. (Nyctanthaceae) was done with the help of HPTLC fingerprint sequence of the plant. The preliminary qualitative phytochemical screening and the HPTLC fingerprint analysis were carried out. The developing solvents were toluene: chloroform:ethanol (4:4:2,v/v/v) was employed. The phytochemical screening showed the presence of unknown phenolic and kaempferol phyto compounds. The HPTLC fingerprinting of the extracts showed several peaks with different R_f values. The ethanol extract of flowers sample showed 13 and 17 peaks of 5.0 mg ml⁻¹ sample solution in 10 μL at 200 and 254 nm. The HPTLC fingerprint profile is used in differentiation of the species from the adulterant and act as biochemical markers for this medicinally important plant of Nyctanthes arborescens. It may be used to pharma industry and plant systematic studies.

Graphical Abstract:



Flowers of *Nyctanthes arborescens* Linn

Keywords: *Nyctanthes arborescens*, HPTLC, Kaempferol, Phenolics.
