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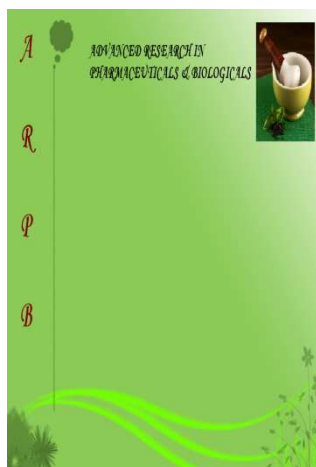
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***Corresponding author**

Mr. Vinit Movaliya

K. B. Institute of
Pharmaceutical Education
& Research, Kadi Sarva
Vishwavidyalaya,
Sector 23, Gandhinagar,
India 382023

HPTLC METHOD DEVELOPMENT AND ESTIMATION OF QUERCETIN IN THE ALCOHOLIC EXTRACT OF *AERVA JAVANICA* ROOT

***V. Movaliya and M. N. Zaveri**

K. B. Institute of Pharmaceutical Education & Research, Kadi
Sarva Vishwavidyalaya, Sector 23, Gandhinagar, India 382023

ABSTRACT:

Aerva javanica belonging to family Amaranthaceae was selected for the present study. High performance thin layer liquid chromatography (HPTLC) was more popular in quality control and standardization of traditional herbs. The present study is to develop chromatography fingerprinting of *Aerva javanica*. A new, economic and rapid high performance thin-layer chromatographic method was developed for alcoholic extract of root of *Aerva javanica*. Chromatographic separation was achieved on a pre-coated with silica gel 60 F254 plate using a mixture of toluene: acetone: methanol: formic acid (7: 2: 0.8: 0.2 v/v) as a mobile phase at a wavelength of 254 nm and 366 nm. Derivatization was done with anisaldehyde sulphuric acid as a detecting reagent. Developed HPTLC method can be used for determination of quercetin. The minimum detectable amount of quercetin was found to be 0.02196% w/w. Hence, the present method was successfully employed for the estimation of quercetin in the alcoholic extract of root of *Aerva javanica*.

Keywords: *Aerva javanica*, HPTLC, quercetin, estimation.