



In vitro Antioxidant Potential of Different Solvent Extracts of *Naregamia alata*

Jince M. JOSEPH, Kandhasamy SOWNDHARARAJAN,
Nataraj LOGANAYAKI & Sellamuthu MANIAN*

*Department of Botany, School of Life Sciences, Bharathiar University,
Coimbatore-641046, Tamil Nadu, India*

SUMMARY. Total phenolics, tannins, flavonoids and the antioxidative properties of the traditionally used medicinal plant *Naregamia alata* Wight. & Arn. were assessed. The hot water extract contained higher levels of total phenolics, tannins and flavonoids. The extracts were subjected to assess their potential antioxidant activities using various *in vitro* systems such as DPPH[•], ABTS^{•+}, FRAP, β -carotene linoleic acid bleaching system, phosphomolybdenum reduction and Fe²⁺ chelation. It is concluded that *N. alata* may serve as a potential source of natural antioxidants capable of offering protection against free-radical mediated damages.

KEY WORDS: Antioxidant, DPPH, *Naregamia alata* Wight. & Arn., Total phenolics.

* Author to whom correspondence should be addressed. *E-mail:* sellamuthumanian@yahoo.com