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Quantitative estimation of ß sitosterol from plant *Terminalia bellirica*

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Terminalia bellerica, known as bahera or beleric or bastard myrobalan, common on plains and lower hills in Southeast Asia, where it is also grown as an avenue tree. The leaves are about 15 cm long and crowded toward the ends of the branches. It is considered a good fodder for cattle. *Terminalia bellirica* seeds have an oil content of 40%, whose fatty-acid methyl ester meets all of the major biodiesel requirements in the USA (ASTM D 6751-02, ASTM PS 121-99). In traditional Indian Ayurvedic medicine, Beleric is known as "*Bibhitaki*" (Marathi: "Behada or Bhenda") (*Terminalia bellirica*). Its fruit is used in the popular Indian herbal rasayana treatment triphala. In Sanskrit it is called *vibhīdaka*. The fruit contains anthraquinones and tannins, It is anthelmintic, astringent (especially when ripe), digestive, tonic and laxative (especially when unripe) The fruit is used internally principally in the treatment of digestive and respiratory problems. In Indian herbal medicine the ripe fruit is used in cases of diarrhoea and indigestion, whilst the unripe fruit is used as a laxative in cases of chronic constipation. This paper contains quantitative analysis of ß-sitosterol in various part of *Terminalia bellarica* by using HPTLC method.

Biography

Madhuri Singhal has completed her PhD at Dr Hari Singh Gaur University, Sagar and Postdoctoral work at Allahabad University, Allahabad. Her research area is the role of natural products from medicinal plants in drug discovery and development. She has presented research papers in international conferences in Australia in 2005 and was invited as Visiting Academic in 2006 at Australian University. She has presented papers in USA in 2009 and 2015. In 2010, she has presented research paper at Ubon Ratchathani University, Thailand. In 2011, she has presented paper in Hong Kong. She is an Editorial Board Member of an international research journal. She has published more than 30 research papers. At present, she is a Professor of Chemistry at Government Motilal Vigyan Mahavidyalaya, Bhopal.

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