

# Review on Medicinal Usefulness of Vitexnugundo Linn

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**Abstract:** *Vitexnugundo* is a perennial plant belonging to family Verbenaceae highly distributed in the Himalayas region in India. The leaves, roots, fruits, and seeds have possessed hepatoprotective, anti-inflammatory, anticancer and antioxidant properties. Generally, it required warm regions, common in waste places around villages, river banks, and most localities in the deciduous forests to grow. The *Vitexnugundo*. The leaves intake reduces the loss of libido and gives relief in increases Vata, Kapha and Pitta. The leaves of *Vitexnugundo* L. possess anti-inflammatory and antioxidant properties, this study has been undertaken to evaluate the effect of *Vitexnugundo* L. in experimentally induced inflammatory bowel disease (IBD) and to find its probable mechanism of action including its antioxidant potential. *nugundo* is a hardy plant, flourishing mainly in the Indian subcontinent. All parts of the plant, from root to fruit, possess a multitude of phytochemical secondary metabolites which impart an unprecedented variety of medicinal uses to the plant. It is interesting to note that a single plant species finds use for treatment of a wide spectrum of health disorders in traditional and folk medicine; some of which have been experimentally validated.

**Keywords:** Phytoconstituent; Alkaloids; Dyspepsia; Rheumatism; Vata; Pitta; Kapha

## REFERENCES

- [1]. Gill BS, Mehra R, Navgeet, Kumar S. *Vitexnugundo* and its medicinal value. *MolBiol Rep.* 2018;45(6): 2925-34.
- [2]. Kirtikar KR, Basu BD. *Indian Medicinal Plants.* Dehradun, India: International Book Distributors; 2008
- [3]. Kokate CK, Purohit AP, Gokhale SB. *Pharmacognosy.* 1988;6:12-28
- [4]. Rastogi, T., Kubde, M., Farooqui, I.A. and Khadabadi, S.S. (2010) A Review on Ethnomedicinal Uses and Phytopharmacology of Antiinflammatory Herb *Vitexnugundo*. *International Journal of Pharmaceutical Sciences and Research*, 1, 23-28.
- [5]. (2014) *Vitexnugundo* Linn. Fact Sheet. Bureau of Plant Industry, Department of Agriculture, Republic of the Philippines. <http://www.stuartxchange.com/Lagundi.html>
- [6]. Gupta GS, Behari M, Chemical study of the seeds of *Vitexnugundo*. *Journal of Indian Chemical Society* 1973; 1:367-368.
- [7]. Ahirrao RA, Patel MR. Anti-arthritis Activity of *Vitexnugundo* Linn. Leaves. *Asian Journal of Research in Chemistry.* 2012;5:843-45.
- [8]. Jana U, Chattopadhyay RN, Shaw B, Preliminary antiinflammatory studies of *Zingiberofficinale* Rose., *Vitexnugundo* Linn. & *Tinosporacordifolia* (Willid) Miers in albino rats. *Indian Journal of Pharmacology* 1999; 31:232-233.
- [9]. Malik A, Haq A, Khan MTH, Haq A, Khan SB, Ahmad A, Choudhary MI. Tyrosinase inhibitory lignans from the methanol extract of the roots of *Vitexnugundo* Linn. & their structure activity relationship. *Phytomedicine*, 2006; 13, 255-260.
- [10]. Tondon VR, Gupta RK, *Vitexnugundo* Linn (VN) leaf extract as an adjuvant therapy to standard antiinflammatory drugs. *Indian J Med Res.* 2006; 124:447-450.
- [11]. Singh DD, Chitra G, Singh IP, et al. Immuno stimulatory compounds from *Vitexnugundo*. *Indian Journal of Chemistry* 2005; 44B (6):1288-1290.

- [12]. Prabhakar A. Gupta BD, Suri KA, et al. Hepatoprotective activity of 2'-p-hydroxybenzoyl mussaenosidic acid. Patent no. WO 2003 094946.
- [13]. Prabhakar A. Gupta BD, Suri KA, et al. Hepatoprotective activity of 10-O-p-hydroxy benzoylaucubin. Patent No. WO 2003 094911.
- [14]. Haq A. Abdul M, Iqbal M, Enzymes inhibiting lignans from Vitexnegundo. Chemical & Pharmaceutical Bulletin 2004; 52(11):1269-1272.
- [15]. Amancharla PK. Patrick SR, Gottumukkala V, et al. Isolation of a potent mosquito repellent from Vitexnegundo L. Natural Product Sciences 1999; 5(2):104-106.
- [16]. Ravishankar B, Bhaskaran NR and SAsikala CK, Pharmacological evaluation of Vitexnegundo roots, J Res Ayurv Siddha, 1986, 7(1-2), 62-77).
- [17]. Gupta M. Mazumdar UK, Bhawal SR, et al. CNS activity of petroleum ether extract of Vitexnegundo Linn. In mice. Indian Journal of Pharmaceutical Sciences 1997; 59:240-245.
- [18]. Namdeo, A. (2007) Plant Cell Elicitation for Production of Secondary Metabolites: A Review. Pharmacognosy Reviews, 1, 69-79.
- [19]. Wink, M. (2004) Phytochemical Diversity of Secondary Metabolites. Encyclopedia of Plant & Crop Science, 915-919.
- [20]. Banerji, A., Chadha, M.S. and Malshet, V.G. (1969) Isolation of 5-Hydroxy-3,6,7,3',4'-Pentamethoxyflavone from Vitexnegundo. Phytochemistry, 8, 511-512. [http://dx.doi.org/10.1016/S0031-9422\(00\)85458-8](http://dx.doi.org/10.1016/S0031-9422(00)85458-8)
- [21]. Sehgal, C.K., Taneja, S.C., Dhar, K.L. and Atal, C.K. (1982) 2'-p-Hydroxybenzoyl Mussaeno
- [22]. Chin, Y.W., Balunas, M.J., Chai, H.B. and Kinghorn, A.D. (2006) Drug Discovery from Natural Sources. AAPS Journal, 8, E239-E253.
- [23]. Duraipandiyar, V., Ayyanar, M. and Ignacimuthu, S. (2006) Antimicrobial Activity of Some Ethnomedicinal Plants
- [24]. Used by Paliyar Tribe from Tamil Nadu, India. BMC Complementary and Alternative Medicine, 6, 35-41. <http://dx.doi.org/10.1186/1472-6882-6-35>
- [25]. Silver, L.L. and Bostia, K.A. (1993) Discovery and Development of New Antibiotics: The Problem of Antibiotic Resistance. Antimicrobial Agents and Chemotherapy, 37, 377-383. <http://dx.doi.org/10.1128/AAC.37.3.377>