

REVIEW ARTICLE

Chemical Composition and Medicinal Significance of *Ageratum conyzoides*: A ReviewSarvesh Kumar¹, Navneet Swami², Vijay Jyoti Kumar¹, Ranjit Singh³, Peeush Singhal⁴

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ABSTRACT

The plant *Ageratum conyzoides* L. family Asteraceae is locally known as billygoat weed and Sadhandhi in India. It is used as traditional medicine for the treatment of numerous ailments such as analgesic, antifungal, wound healing, anti-inflammatory, hemostatic, smooth muscle relaxant, and anticoagulant activity. The plant has several phytoconstituents such as trans-cadina-1(6), 4-diene, hexanal, β -copaene, caryophylla-4(12), 8(13)-diene-5- β -ol and 1, 10-di-epi-cubenol. Even through many of the investigational studies validated its traditional therapeutics uses, but unemployed uncharacterized crud extracts. Pharmacological activities of plant extracts and individual phytoconstituents have discovered analgesic, antifungal, wound healing, anti-inflammatory, hemostatic, smooth muscle relaxant, and anticoagulant activity. The results of few pharmacological studies and bioactive metabolites already reported in *A. conyzoides*. Hence, in the view of huge remedial worth of the plant, current review is therefore bringing together all the information related to the *A. conyzoides*.

Keywords: Wound healing activity, analgesic activity, muscle relaxant, hexanal, *Ageratum conyzoides* and medicinal significance

INTRODUCTION

Asteraceae is a large family of plant comprising approximately 1500 genera and 25,000 species in different habitats. This family's vegetation is rather different, ranging from herbs, subshrubs, shrubs to trees.^[1] This vegetation, once environmentally friendly, is found in diverse habitats. *Ageratum* is one of those genera comprising 300 species in the Asteraceae family.^[2] *Ageratum* is derived from the Greek words "a geras," meaning non-aging, which refers to the entire plants longevity. On the other hand, *Conyzoides* derived from the greek name "konyz" of *Inulaheleum*, which the

plant resembles.^[3] Billy goat weed, catinga-de-bode, agerato, white weed and Mentrasto.^[4-7] are commonly known as *Ageratum conyzoides* (Linn). In Shivalik range of India, Plant *A. conyzoides* grows around 30 to 80 cm in height and has been recorded to grow to 2 m.^[8] *A. conyzoides* has its stems covered with white hairs. This species' leaves are opposite arranged, and its inflorescence is corymbing with purple or whitish at times. The fruits of this herb are achene, and wind and water disperse seeds.^[9] Because of its abundant morphology (variability this herb was adaptable in many climatic conditions. *A. conyzoides* is distributed worldwide at an altitude of 700–1660 meters above sea level (m.a.s.l) in pantropical regions.^[10] In India, the plant becomes the dominant weed in various agricultural lands and leads to decline in crop yields.^[11]

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