

Extraction of Vasaka Leaf Alkaloids : A Comprehensive Review

Dinkar Pratiksha S., Gowda Aishwarya K., Bhoir Pranali S., Miss. Padwal Prachi N.

Department of Pharmacognosy
Samarth Institute of Pharmacy, Belhe, India

Abstract: *Adhatodha vasica*, Commonly known as *Arusa*, is a valued herb in Ayurvedic medicine. Roots, leaves and preparations of the plant are tradition ally used as tonic, anti- asthmatic, analgesic, anti-inflammatory and diuretic. *Adhatodha Vasica*, mainly Contains Vasicine alkaloids including Vasicine which are specific to the *Acanthaceae* family. Efficient separation and of purification of vasicine are crucial for it's.pharmaceutical application. The review aims to provide an overview of the existing methods for vasicine. Separation from vasaka leaf.Extract, including Solvent Extraction, chromatography, and crystallization techniques. Recent advancements in green extraction technologies and nanotechnology based separation methods are also explored. The review further emphasizes the importance of standardization and quality control measures to ensure the consistency and efficacy of vasicin ultra-performance liquid chromatography also used to separation and estimation of vasicine.

Keywords: *Adhatodha vasica*.