

Phytochemical Profiling and Anticancer Potential Of Bioactive Compounds Isolated from *Acorus Calamus*

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Abstract: *Acorus calamus* is a traditional medicinal plant rich in bioactive compounds with significant pharmacological potential. Recent research highlights its anticancer activity, primarily due to compounds such as β -asarone, α -asarone, and flavonoids. This review focuses on phytochemical profiling, isolation techniques, bioactive characterization, and anticancer evaluation of *Acorus calamus* constituents. Advanced formulation strategies such as nanoparticles and phytosomes are also discussed to enhance efficacy and bioavailability of these natural anticancer agents.

Keywords: *Acorus calamus*, β -asarone, α -asarone, bioactive compounds