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## A Comparative Pharmacological Study on Cultivation of *Shweta Musali (Chlorophytum borivillianum)* Using Three Different Methods with Emphasis on Substituting *Kunapajala* by *Vedamrit Water*

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## Abstract

### Introduction:

Shweta Musali (*Chlorophytum borivillianum*) is a highly valued medicinal plant in Ayurveda, renowned for its aphrodisiac, adaptogenic, and immunomodulatory properties. Overexploitation and unsustainable harvesting have placed this species under ecological threat. This study evaluates three cultivation methods for Shweta Musali—natural farming, organic farming using Vedamrit Water, and chemical farming with Single Super Phosphate (SSP). It emphasizes the viability of Vedamrit Water as a sustainable substitute for Kunapajala, a traditional organic fertilizer.

**Methods:** A randomized controlled trial was conducted on barren hilly land converted into fertile plots. Ninety-six planting materials were divided into three groups:

Group A: Natural farming (control).

Group B: Cultivation with Vedamrit Water.

Group C: Cultivation with SSP.

**Results:**

Vedamrit Water significantly enhanced tuber quality and saponin content compared to natural farming. While SSP yielded the highest quantity of tubers, it negatively affected soil health and reduced pharmacological efficacy. Organic cultivation using Vedamrit Water preserved soil structure, improved microbial activity, and produced high-quality tubers, aligning with sustainable agricultural practices.

**Discussion:**


The study demonstrates that Vedamrit Water is a viable alternative to Kunapajala, ensuring ecological balance and high-quality Shweta Musali cultivation. Organic methods showed superior medicinal benefits and environmental sustainability compared to chemical farming.

**Conclusion:**

Vedamrit Water offers a sustainable, eco-friendly solution for Shweta Musali cultivation, bridging the gap between ecological conservation and increasing market demands. Its adoption can mitigate the overharvesting of wild resources and support the pharmaceutical industry sustainably.

**Keywords:** Vedamrit Water, Kunapajala, Sustainable Cultivation, Organic Farming.

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