

## STUDY OF IMPACT OF SELECTED BIOSTIMULANTS ON PLANT GROWTH UNDER PH-INDUCED STRESS

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## **ABSTRACT**

This study investigates the impact of biostimulants on the growth, protein content, and proline accumulation of Vigna aconitifolia (moth bean) and Trigonella foenum-graecum (fenugreek) under acidic and alkaline soil conditions. The research aims to evaluate the potential of biostimulants to enhance crop resilience and nutritional quality in challenging soil environments, addressing the growing need for sustainable agricultural practices to meet the demands of an increasing population. The study analyzes plant growth, protein concentration, and stress tolerance (via proline levels) to understand the mechanisms by which biostimulants mediate these effects.

**KEYWORDS**: Biostimulants, pH Stress, Vigna Aconitifolia, Trigonella Foenum-Graecum, Protein Content, Proline Accumulation, Sustainable Agriculture.

## Article History

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