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Research Article

**COMPARATIVE STUDY OF IMMUNOMODULATORY
ACTIVITY OF MARKETED AYURVEDIC FORMULATION**

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Department of Pharmacology, Appasaheb Birnale College of Pharmacy,
Sangli-416416, India**Abstract:**

Introduction: The objective of the present study to compare immunomodulatory activity of Marketed Ayurvedic Formulation viz Formulation I and Formulation II.

Material and Method: In the present study the dose selection of Formulation I and Formulation II for the particular species (Rat) were selected on the basis of the method described by Paget and Barnes. The assessments of immunomodulatory activity were carried out by using Delayed Type Hypersensitivity Test, Carbon Clearance Test and Neutrophil adhesion test.

Result: Oral administration of Marketed Formulation I and Formulation II significantly ($P < 0.0001$) showed Immunomodulatory activity by increase in DTH response, phagocytic activity, and Neutrophil adhesion in Rat at experimental dose.

Conclusion: The study demonstrated that both the Formulation I and Formulation II shows significant immunomodulatory effect on both humoral as well as cell mediated immunity. While among two Formulation II showed more immunomodulatory activity as compare with Formulation I. Present study it was revealed that Formulation II showed more immunomodulatory activity than Formulation I due to presence of multiple immunomodulatory ingredient in its Formulation (Tinospora Cardifolia, Ocimum Sactum, Glycyrrhiza Glabra, Aconitum hetrophyllum, Cyperus rotundus, Pistacia integerring), when compare with Formulation I it contain single ingredient (Tinospora Cardifolia). Ocimum Sactum which is present in Formulation II is a more potent immunomodulator than Tinospora Cardiofolia.

Keywords: Formulation I, Formulation II, Delayed Type Hypersensitivity test, Carbon Clearance Test, Neutrophil Adhesion test.

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