

## Herbal adjuvant DIP-HIP

Herbal adjuvant DIP-HIP, derived from Himalayan herb, is developed to enhance the immunogenicity of vaccines.

- ❖ *The adjuvant activity of the extract is confirmed by purifying the extract, and identifying a bioactive component.*
  - ❖ *Safe, efficacious, enhances protective antibody response, with no side effects.*
  - ❖ *Modulates both the arms of immunity (Th1 and Th2 immune response).*
  - ❖ *Long term sustenance of antibodies .*
  - ❖ *Compatible with different antigens, with reduced number of boosters.*
  - ❖ *Non-immunogenic by itself with no batch variation.*
  - ❖ *Superior to alternative adjuvants when judged by immunopotency criteria, and collectively by bio-active qualities, syringeability, and manufacturability.*
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- Patents: Four Indian patents filed, [212/DEL/2006; 2073/DEL/2014; (2) 2015].
  - Publications: Ten papers and Two reports;12 Abstracts in International Conferences.
  - DIP-HIP qualified in the DRDO-FICCI-ATAC program for Global Commercialization.
  - CNDA, MTA & BEA signed with various pharmaceutical companies.
  - Large scale multi-centric animal field-trials in progress, in 4 different states of the country.