

Activity of *Heliotropium marifolium* against Herpes through deactivation of Herpes Simplex virus type 1 DNA polymerase (2GV9)

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Abstract: An in-silico study was performed to determine the activity of *Heliotropium marifolium* against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes Simplex virus type 1 DNA polymerase (2GV9) enzyme. It was found that Linamarin helped to prevent Herpes.

Introduction: *Heliotropium marifolium* is known for its medicinal activities. *Heliotropium marifolium* is used against syphilis, asthma, herpes, UTI and wound.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Boraginales
Family	Boraginaceae
Genus	<i>Heliotropium</i>
Species	<i>marifolium</i>

Major phytochemicals present in the plant are:

- a. Campesterol
- b. Linamarin
- c. Naringin
- d. Pelargonidin

One of the major enzymes required for the survival of the organism causing Herpes is Herpes Simplex virus type 1 DNA polymerase (2GV9) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.