

## Daphne Laureola extract for the topical efficaceous treatment of the Psoriatic Plaques

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### Abstract

Psoriasis is a chronic, multifactorial disorder, influenced by both genetic and environmental factors of the skin. It generally have a significant negative impact on the physical, emotional, and, psychosocial wellbeing of affected patients. It may presents several clinical cutaneous manifestations, but most commonly it presents plaques (that effects 80% of patients and that mostly conditionate at social level them).

*Daphne laureola L.*, (Italian: *dame laurella*), is a species of *Daphne*, of the Thymelaeaceae family. Its aqueous extract showed interesting profile for the topical treatment of the psoriasis plaques. It demonstrated an excellent activity both *in vitro* (reducing the hyperproliferation of human fibrobalsts in a suitable *in vitro* model) and *in vivo* on patients affected by psoriasis plaques. In particular a gel based on *Dafne Laureola* extract, was applied topically by 90, selected patients affected by moderate and severe psoriasis plaques. The gel, applied twice a day, led to the complete reduction of psoriasis plaques in an average period of 20 days. At the complete remission of the plaques, the treatment was applied one a day for a period of 30 days, the 95% of the treated patients didn't develope plaques for a minimun period of two years.

The proposed treatment represents a suitable remedy to relieve the symptomatology of the psoriasis and in particular to reduce the presence of plaques, very often responsible of social and emotional negative impacts.



### Biography:

Donatella Paolino, PhD. PharmD. has completed his PhD in "Technologies of the Biologically Active Substances" in 2003 at the University of Palermo (IT). At today she is Full Professor of Nanomedicine at the University Magna Graecia of Catanzaro (IT). She has published more than 140 papers in peer reviewed journals. She is serving as an editorial board member of different peer reviewed journals and she is serving as Editor-in-Chief for the Section "Nanomedicine and Nanotechnology" of Pharmaceutics and is a mean.

### Speaker Publications:

1. Rheological characteristics of bovine colostrum and their correlation with immunoglobulin G, International Journal of Dairy Technology
2. pH-responsive chitosan based hydrogels affect the release of dapsone: Design, set-up, and physicochemical characterization, International journal of biological macromolecules
3. Nanoformulation for potential topical delivery of Vismodegib in skin cancer treatment, International Journal of Pharmaceutics
4. Post-insertion parameters of PEG-derivatives in phosphocholine-liposomes, International Journal of Pharmaceutics

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