

Blemish

&

Acne Care

Find effective solutions

09/2023 EXPERT LETTER

- 1. Prevalence, Acne Market**
- 2. Product Formats, Adult Acne**
- 3. Actives Ideas**
- 4. Conclusion**



Sellcare
creative chemicals

Prevalence

***50% OF BOTH MEN AND WOMEN STILL HAVE ACNE WHEN THEY ARE IN THEIR THIRTIES.**

***5% OF ADULT MEN & 22% OF ADULT WOMEN HAVE ACNE IN THE U.S.**

ACNE AFFECTS ~ 9.4% OF THE POPULATION, WORLDWIDE.

(Than u. Bhate 2015)

excess keratin & sebum

bacteria

inflammation

Acne Market

The number of acne vulgaris skin disorder cases is growing worldwide, raising awareness in society, especially among younger generations. They seek glass skin - a well-hydrated, immaculate, and even skin without any visible pores. These factors drive the growth of the blemish care segment.

Product Formats



CREAMS AND LOTIONS ARE FORECASTED TO HOLD THE BIGGEST MARKET SHARE FOR THE EVALUATED TIME SPAN UNTIL 2026

(Global Anti-Acne Cosmetics Market, Report Summary)

Adult acne / Post-adolescent acne

Adult acne, or post-adolescent acne, is the name for acne occurring after the age of 25. The causes for adult acne are similar as in adolescent acne: Pores become clogged by skin cells, and bacteria will multiply within the clogged pores, leading to inflammation. Young people have a faster cell renewal and tend to produce more sebum. Some indirect factors contributing to adult acne are:

- Excessive sebum production due to: hormones, stress, and the menstrual cycle of women
- Pore-clogging cosmetic products
- Diet

(Consumer Goods - Anti-Acne Makeup Market, Report Summary)

Actives Ideas

Depending on the target group and desired product category, there are different solutions that best suit the respective demands. For adult acne, a combination of acne & anti-aging care is recommended.



ECONOMICAL & WELL KNOWN

- Niacinamide
- Vitamin C: Stay-C® 50



EXCLUSIVE & NATURAL

- Vegetable Snail Slime: SharoHyal Snail Veg®
- Meristematic cell lysate: ForsIngen CROP®-G
- Microalgae: PEPHA®-CTIVE CB



LOCAL & NATURAL

- Swiss Alpine Plant Extract: ALPAFLOR® ALP-SEBUM CB
- Pinaster Bark Extract: PANTROFINA® SKIN 360 MB



CONTROLLED RELEASE TECHNOLOGY

- Oleosome emulsion to incorporate lipophilic actives (Hydresia® SF2)

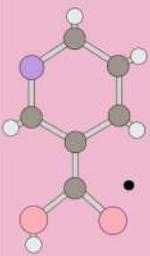


Economical & Well Known



Salicylic acid is the standard ingredient in many anti-acne cosmetics. Side effects can be irritated, itchy, and/or reddened skin. We hereby list two alternatives to salicylic acid, that are just as effective:

VITAMIN B₃ (NIACINAMIDE PC)



- Niacinamide PC comes with info about the ecological footprint (Sustainability Imp'Act Card™)
- Minimal nicotinic acid content (max. 100 ppm)
- Extensive literature and testing

VITAMIN C (STAY-C® 50)



- STAY-C® 50 is the stable version of ascorbic acid that shows excellent efficacy
- penetrates completely within 2h
- 95% metabolized to ascorbic acid within 2 min!

➡ EXTENSIVE SKINCARE TESTS

- Reduces enlarged pores after 4 weeks and sebum excretion rate by 23% after 8 weeks
- Niacinamide is just as effective as clindamycin - in vivo
- Additional benefits: anti-aging, skin barrier, UV & stress protection

➡ UNIQUE FOR STAY-C® 50

- Extensive studies available
- Improved skin by 77% vs. benzoyl peroxide
- Additional benefits: anti-ageing, UV protection, collagen stimulation, antioxidant

Exclusive & Natural

Here we introduce actives of new technologies (meristematic cell lysate), uniqueness (vegan snail slime), and efficacy (-4 days cell renewal).

A VEGAN ALTERNATIVE TO SNAIL SLIME: SHAROHYAL SNAIL VEG®

Snail slime is well known to have extraordinary healing properties on scars. Its slime composition consists of HA, glycoproteins, enzymes, copper peptides, antimicrobial substances, and proteoglycans. Sharohyal Snail Veg® has a very similar composition and proves wound healing abilities, tested with on vitro fibroblasts.

LESION & SEBUM REDUCTION FORSINGEN CROP®-G

Meristematic cell lysate of the Chinese golden bell tree (Forsythia suspensa) with verbascoside as active. 5a-reductase is strongly expressed in sebocytes. There are 2 isomers of which both are inhibited by verbascoside.

STUDIES:

- Anti-inflammatory - IL8
- -40% lesions after 8 weeks
- Verbascoside reduces 5a-reductase activity, thus also benefits hair follicles
- Sebum regulation, -30% after 4 weeks
- +95% skin hydration, 8 weeks

FASTER SKIN RENEWAL: PEPHA®-CTIVE CB

This microalgae-based active (100% naturally derived) has a unique amino acid composition, valuable for cellular metabolism. Faster cell renewal is crucial to fight acne skin conditions, to prevent hyperkeratosis and clogging of pores.

STUDIES:

- Increases proliferation rate of fibroblasts up to 320%
- Increases ATP in keratinocytes up to 140%
- Faster skin renewal by 4-5 days!
- Visibly improves skin's luminosity

Local & Natural

ORGANIC PREBIOTIC ACTIVE: ALPAFLOR® ALP-SEBUM CB

This Swiss plant extract delivers on several aspects of improving acne:

- Sebum reduction in all facial areas
- Deep microbiome research, balancing bacteria
- Inhibition of 5a-reductase
-56%, after 2 months, in vivo
- IL8 inhibition



Microbiome:

Reducing risk of enlarged pores, inflammation & redness by **downregulating**:

- *S. capitis*
- *C. kroppenstedtii*
- *C. avidum*
- *C. tuberculostearicum*

Protecting overcolonization of pathogenic bacteria by **upregulating**:

- *S. epidermidis*
- *S. hominis*
- *M. yunnanesis*

C. acnes is the most prevalent bacteria, however few strains are pathogenic, many are very helpful (strong antioxidant).



Local & Natural

360° SKINCARE ACTIVE: PANTROFINA® SKIN 360 MB

Derived from an Italian marine pine (*Pinus pinaster*), this bark extract provides the following 4 skincare benefits:

Anti-Acne

Can reduce sebum by 24% after 28 days and by 37% after 56 days.

Anti-Aging

- Improves collagen I synthesis by +23%

Energetic Metabolism

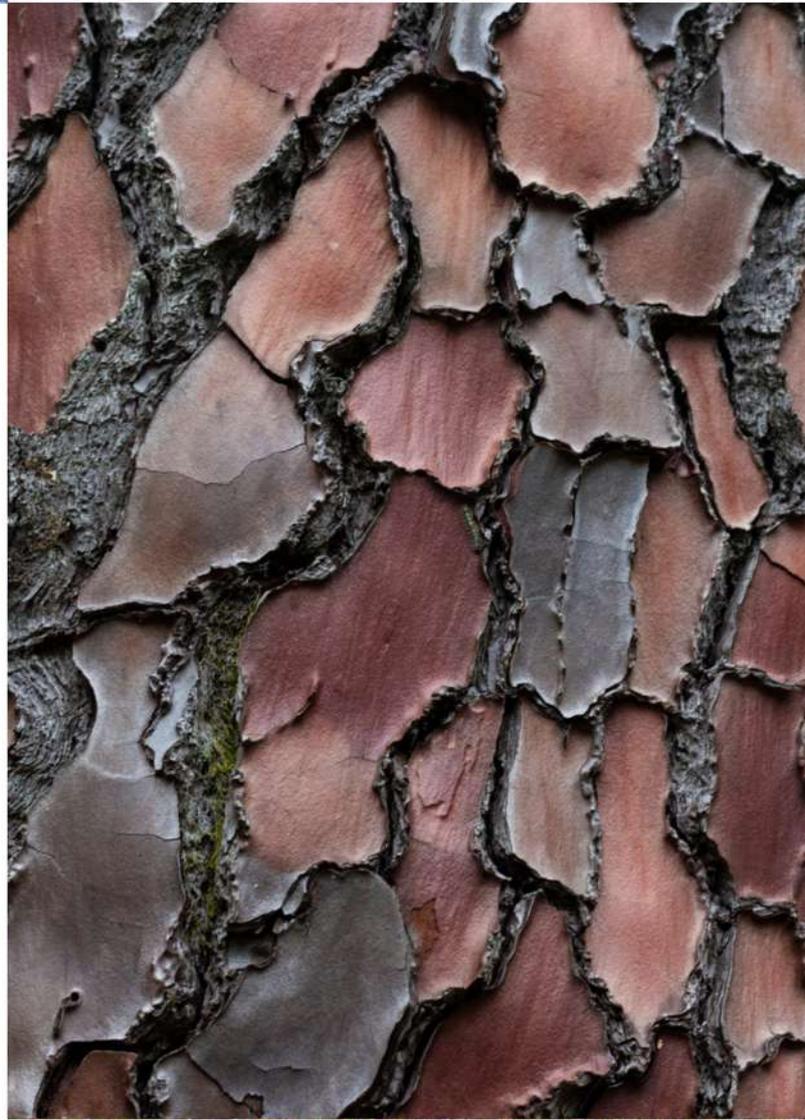
Reduces cell death after UVB [2] if previously treated with active [3]:



- Increases ATP bioavailability of keratinocytes
- Better antioxidant than Vit C, Vit E Acetate

Anti-Pollution

- Less oxidative stress
- Soothing, IL8 inhibition



Controlled Release: Hydresia® SF2 Oleosomes

Galderma launched an FDA approved anti-acne cream (5% benzoyl peroxide) with a patent of a microencapsulation technology (silica-based capsules) valid until 2040. They are claiming that the controlled release shows effectiveness within 2 weeks.

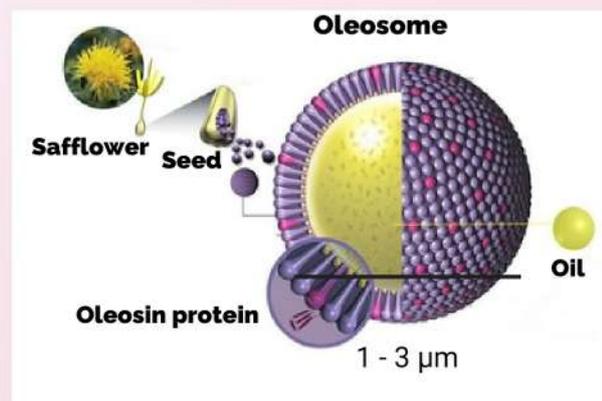
Similar approach but different technology - testing our partner Sharon Personal Care's new oleosome technology in anti-acne care can be of high interest if lipophilic actives such as retinoids are used, in order to benefit from controlled release in a similar way. Oleosomes are a new technology (explained below), enabling actives to penetrate deeper and allow oleosomes to release the active over time (oleosome volume at 10% after 90 min).

(Consumer Goods - Anti-Acne Makeup Market, Report Summary)

OLEOSOMES of Sharon Personal Care are micron-sized oil droplets consisting exclusively of intact plant oil bodies and vitamin E. They are coated with a phospholipid membrane and protein coat. Oleosomes occur naturally in all oil-bearing plant seeds, as they are the natural energy source used during seed germination.

Hydresia® oleosomes are 65% dispersions of oleosomes in water.

BENEFITS: Hydresia® SF2 can emulsify 3x its weight in lipophilic substance. The gradual release of emulsified lipophilic content within the oleosome, once applied to the skin, enables controlled release of the encapsulated ingredient.



What's Sellcare's take on blemish & acne care?

This really depends on your target group and product - we are happy to discuss it with you!

Do not hesitate to discuss with our team:

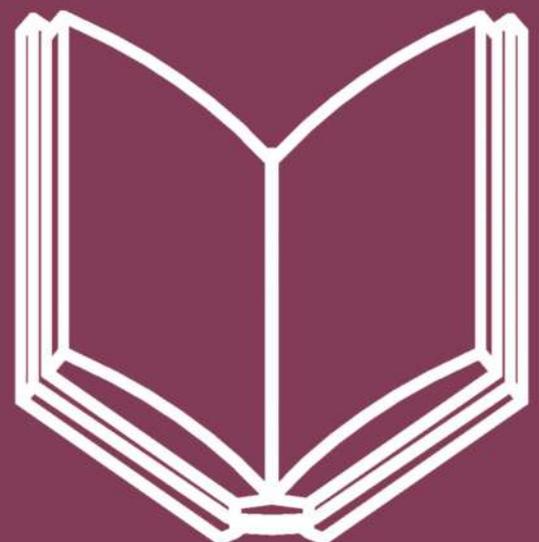
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Literature

dsm-firmenich product documentation and studies: ALPAFLOR® ALP-SEBUM CB, PEPHA®-CTIVE CB and Stay-C® 50 are trademarks of **dsm-firmenich** ●●●.

Sharon Personal care product documentation and studies: PANTROFINA® SKIN 360 MB. ForsIngen CROP®-G and SharoHyal Snail Veg® are trademarks of  SHARON PERSONAL CARE.

Tan, J. K., K. Bhate. 2015. "A global perspective on the epidemiology of acne." The British journal of dermatology 172 (Suppl. 1): 3–12.
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<http://www.reportsanddata.com/report-detail/anti-acne-makeup-market>

Global Anti-Acne Cosmetics Market. Report 2980. Report Summary. GME 2022. Maharashtra: India, updated 08.09.2023.



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