

Anti-acne

BioGenic Sallic-210

Water soluble salicylic acid



BIOGENICS

Salicylic acid

Salicylic acid has been introduced in various cosmetic products based on its different effects on the skin. Salicylic acid has been used since the early days of dermatology to improve xerotic and scaly conditions. The main effects of salicylic acid in cosmetic applications are anti-acne, anti-microbial and Keratolytic effect.

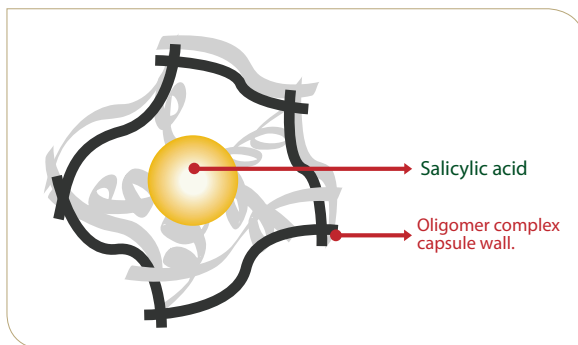
BioGenic Sallic-210



Water soluble salicylic acid

Up to 4% of BioGenic Sallic-210 can be soluble in water without recrystallization. It enables to make alcohol free formulation for cosmetics and personal care products. Water soluble property of BioGenic Sallic-210 enhances stability of formulation and prevents recrystallization of saicylic acid.

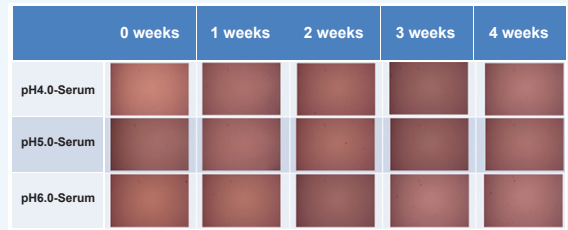
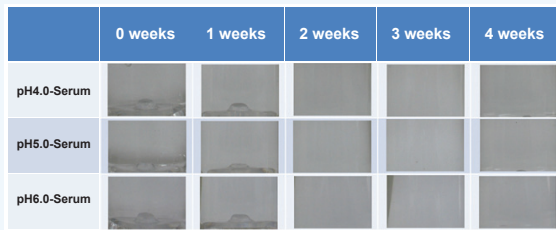
Solubilization Technology by Oligomer complex



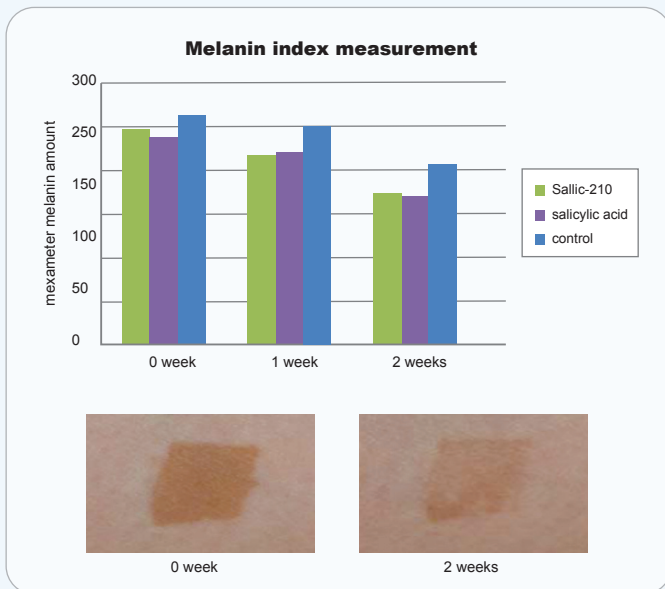
Salicylic acid, poorly soluble in water, becomes totally soluble in water due to oligomer complex wall.

Stability

Discoloration was not occurred in 4% of BioGenic Sallic-210 serum formulation for 4 weeks at 50°C. Recrystallization was not observed through an optical Microscope (X400) in 4% of BioGenic Sallic-210 serum formulation for 4 weeks at 4°C.



Exfoliating effect



12 volunteers have applied 4% of BioGenic Sallic-210 serum to their forearms twice a day for 2 weeks. The melanin amount was measured using Mexameter. The result shows that BioGenic Sallic-210 has a same effect as pure salicylic acid on exfoliating.

Anti-acne effect



4 volunteers have applied 4% of BioGenic Sallic-210 serum on their acnes twice a day for 2 weeks. The actual lesion decreases were observed for all volunteers

Anti-microbial effect

Microorganism		E.coli	S.aureous	P.aeruginosa	C.albicans
Number of inoculms(CFU/ml)		8.8×10^6	6.0×10^6	7.2×10^6	5.5×10^5
2 days	Reduction(%)	≥ 99.9	≥ 99.9	≥ 99.9	≥ 99.9
7 days	Reduction(%)	≥ 99.9	≥ 99.9	≥ 99.9	≥ 99.9
14 days	Reduction(%)	N.I	N.I	N.I	N.I
21 days	Reduction(%)	N.I	N.I	N.I	N.I
28 days	Reduction(%)	N.I	N.I	N.I	N.I

The microorganisms (E.coli, S.aureus, P.aeruginosa and C.albicans) were separately introduced to 2% of BioGenic Sallic-210 solutions and incubated at optimal temperatures for each microorganisms. The numbers of microorganisms were measured every 2, 7, 14, 21 and 28 days. The result shows that BioGenic Sallic-210 has an anti-microbial effect according to CTFA Microgiology guidelines.



Application

Function : Anti-acne, Anti-inflammation, Exfoliation, Sebum control
Type : Skin toner, Serum, Gel, Lotion, Cream, Cleansing foam, Shampoo

Technical data

I. Product information

Appearance	Powder
Color	White
Odor	Odorless
Active ingredient content	-50%
Solubility	Water soluble
INCI name	Salicylic Acid (and) Polydextrose (and) Dextrin (and) Amylopectin (and) Niacinamide
Storage condition	Room Temperature

II. Formulation instruction

pH in finished products	4~6
Recommended dosage	About 4% of Biogenic Salic-210 (Depending on the regulation of the country)
Recommended formulation	Transparent solution, Serum, Lotion

* Guide formulation will be provided upon customers request

BioGenic Sallic-210



BioGenics, Inc.
892, Taplip-dong,
Yuseoung-gu
Daejeon, Korea

Tel : 82.(0)42.671.1216
Fax : 82.(0)42.671.1218
Email : bykim@biogenics.co.kr
www.biogenics.co.kr