

SalSphere® Light (SS LT)

Technology for natural brightening of the skin for a beautiful complexion.

SS LT helps skin appear brighter and more radiant. It aids with common skin conditions such as age spots, acne scars, and melasma.

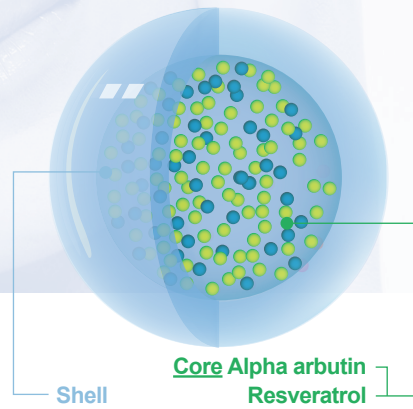


Figure 1: The sub-micron of SS LT, with the brightening ingredients infused within the core.



TECHNOLOGY

SS LT consists of sub-micron spheres (Figure 1). The alpha arbutin and resveratrol are encapsulated within the lipid core, which can easily partition into the skin.

UNIQUE FEATURES

- 1 IMPROVED STABILITY AND EXTENDS SHELF LIFE**
Natural extracts require encapsulation to protect them from premature oxidation and color change.
- 2 POTENT SOLUTION**
Encapsulation alpha arbutin has a 340% higher lightening effect. A slow release provides better results and enables more thorough brightening through better adhesion to the skin.
- 3 MULTI-FUNCTIONAL**
This composition of skin brightener also offers anti-wrinkle benefits to further promote youthful-looking skin.



SS LT raw



1
Facial wash



2
Serum



3
Cream

SalSphere® Light (SS LT)

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CLINICAL EFFICACY

Skin brighteners improve the skin by changing the reflection of light off the surface of the skin while improving skin tone.¹ **RESVERATROL**, a potent, natural antioxidant stimulates this process causing lightening of the skin. The encapsulation is used to stabilize resveratrol, which normally oxidized rapidly.

ALPHA ARBUTIN, which is extracted from several different sources, such

as mulberry, cranberry, and blueberry, is focused on the pigmentation cells in the skin and reduces their activity, which gives the skin a whiter-looking appearance. Alpha arbutin prevents the formation of tyrosinase, which is the enzyme that inhibits the synthesis of skin pigment melanin, the primary pigment responsible for skin color.² The encapsulation of alpha arbutin enables to transfer the water soluble ingredient into a hydrophobic environment like the deeper layers of the skin, which enables faster results in 2-3 weeks.

CLINICAL EFFICACY

Skin whitening treatments work by reducing the content of melanin of the skin. Alpha arbutin has shown superior performance in multiple clinical studies. After one month of topical application (n=80), arbutin at 1% loading in a lotion resulted in 340% higher lightening effect as compared to 240% for kojic acid and 100% for FDA-approved hydroquinone (Figure 2).

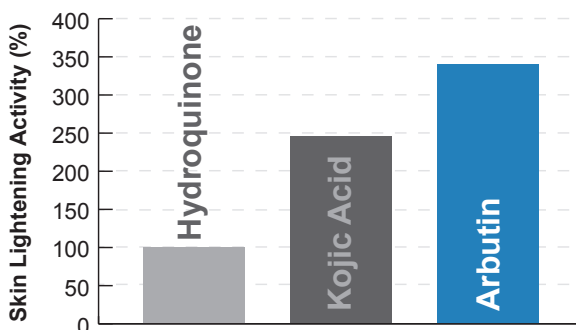


Figure 2: The efficacy of arbutin compared to kojic acid and hydroquinone in a one month study with 80 human subjects.

FORMULATION

Luxury Lotion

SS LT can be formulated into most types of lotions. Always add at the end and mix gently at room temperature (25C). The following is an example of a lotion formula. One can strengthen the brightening effect with additional SalSphere® Resveratrol (SS RE) or SalSphere® Clear Skin (SS CS).

Ingredients	(W/W %)
SalSphere® Light	4
Salvona Lotion Key #5019	20
Salvona Hydration Key #5021	10
DI Water	65
Preservative	1

TECHNICAL DATA

Appearance @ 20°C	Opaque paste
Applications	Leave-on skin care applications such as lotions, concealers, spot treatments, and serums
Color	White
Odor	Characteristic
pH (1% Solution)	4-6
Alpha Arbutin Assay (HPLC)	8-12
Shelf Life (months)	18
Usage Level (wt%)	2.5-5
Storage (°C)	Closed container at 12-32°

References

1. "Cosmetics & Toiletries." Skin Brighteners Emerge in Anti-aging. Cosmetics & Toiletries, 10 Oct. 2006. Web. 20 Oct. 2016.
2. "Chemical Information Review Document for Arbutin." (n.d.): n. pag. U.S. Department of Health and Human Services. Integrated Laboratory Systems, Inc., Jan. 2006. Web. Oct. 2016.