

Alpha-Arbutin



INCI Name: Alpha-arbutin
Crystalline, white powder.
Water-soluble.

PH range from 3.5-6.5.

CAS: 84380-01-8

Assay: 99%

Molecular Formula: C₁₂H₁₆O₇

Molecular Weight: 272.25

알부틴제품: 베어 베리, 블루 베리, 크랜베리와 같은 식물에서 추출한 알파 알부틴은 흉터나 멜라민 침착을 없애는 데 도움이 되는 안전한 피부 미백 성분입니다.

알부틴특성:

- > 모든 피부 유형 피부 미백, 균일한 피부 톤 촉진
- > UV 노출 후 피부 태닝 정도를 줄여줌
- > 반점 출현 최소화에 도움을 줌

권장사용량 : 0.2-3%,
사용처 : 로션, 크림, 세럼과 같은 모든 미백 화장품

Differences between Alpha-Arbutin V.S. Beta-Arbutin

	Production	Tyrosinase inhibitory efficacy	Stability	Safety	Price
Alpha-Arbutin	enzymatically synthesized	10 times stronger	higher	safer	More expensive
Beta-Arbutin	Extracted; or chemically synthesized	weaker	lower	inhibit cell growth	cheaper

Arbutin Application and Dosage

Arbutin is used as a skin whitening agent, a sunscreen agent and an antioxidant in cosmetic formulations. Arbutin soap, cream, serum and lotion are among the major lightening products you will find in the market.

Product name	Reference Dosage
Beta-Arbutin	1-3%
Alpha-Arbutin	0.2-2%

Arbutin Reference Formula

1 미백크림:

Ingredient	Content(%)	Ingredient	Content(%)
Vaseline	39	Arbutin	1
Stearyl alcohol	15	Vitamin E	1
Beeswax	15	Fragrance	0.5
Glycerin monostearate	0.5	Distilled water	27
Polyethylene glycol monooleate	1		

2. 주근깨방지 미백 에센스:

Ingredient	Content(%)	Ingredient	Content(%)
Vitamin C	2-4	Arbutin	4-6
Glycerin	4-6	Antioxidant	0.09-0.2
Ethanol	43-45	Angelica sinensis	9-11
Caisson	0.09-0.2	Ligusticum wallichii	7-9
Vitamin E	4-6	Scutellaria baicalensis	9-11
Liquorice	9-11		

Preparation method:

Heat water phase(Vitamin C, Glycerin, Ethanol, Caisson) and oil phase(Vitamin E, Antioxidant) to 50-60℃ respectively, slowly pour water phase into oil phase, then add Angelica sinensis, Ligusticum wallichii, Scutellaria baicalensis, Liquorice and Arbutin, stir well, then obtain the essence.

3. 미백토너:

	Ingredient	Content(%)	Ingredient	Content %
Group A	Arbutin	0.1-3	Guava leaves extracts	1-5
Deionized water	63-89.8	Guava fruit extract	3-5	
HA	5-10	Hydrolyzed pearl solution	1-5	
Group B	Propylene glycol	0.1-1	Glycerin	5-10

Preparation method: Preparation method: Weigh above ingredients of Group A and put them to the water phase bottle; under the condition of stirring rate of 10r/min, heat to 75℃, hold for 10min, then get the water phase. Put the Group B ingredients into oil phase bottle, under the condition of stirring rate of 20r/min, heat to 80℃, hold for 15min, then get the oil phase. Mix the two phases for 500s, cool to 30℃, then get the toner.

Storage: Please tightly sealed Arbutin in containers. Store it in a cool dry place and away from sunlight and oxidizing agents. Packed in 25kg paper drum, 1kg aluminum foil package inside.