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Olevatin

Appearance:	White Fine Powder or Crystalline Powder
Melting Point:	197 – 199 °C
[α] (C=3 in water):	-63 ~ - 65°
Solubility:	Soluble in water
pH (1% Solution):	5.0 – 7.0
Water Content:	3.0% Maximum
Heavy Metals:	20 ppm Max.
Assay (HPLC):	97 – 103%
CTFA/INCI:	Arbutin
CAS Number:	497-86-7
Chemical Name:	p-Hydroxyphenyl – B – D – pyranoglucoside
Synonyms:	4-hydroxyphenyl – B – D – glucopyranoside; hydroquinone – B – D – glucopyranoside; hydroquinone – B – D – glucose; hydroquinone – B – D – glycoside.
Molecular Formula:	C ₁₂ H ₁₆ O ₇
Applications:	All cosmetic and personal care products.
Use Levels:	1 – 5%. Dissolve in warm water
Storage Conditions:	Store in a cool dark place.
Standard Package Sizes:	5 Kg. And 10 Kg. Containers

Commentary:

Arbutin is produced by subjecting a callus of plant to subculture in a medium containing hydroquinone. Arbutin strongly inhibits the activity of tyrosinase which is an enzyme participating in the formation of melanin pigment, and results in remarkable inhibitory effects on melanin formation and skin beautifying effects. As a skin lightening agent, arbutin has by far higher stability than hydroquinone, and nevertheless, is decomposed into hydroquinone and glucose rapidly in the presence of the enzyme hydrolase in the skin and exhibits the remedying effect to melanosis. Arbutin has very high safety and high stability and shows skin lightening effects at the same level as of hydroquinone. Arbutin causes no irritation, scarce sensitization, which permits continuous use for a long period of time in high concentration to develop satisfactory skin lightening effects. Arbutin has excellent effects on liver spots, age spots, sun spots and skin pigmentation disorders. It has been widely used in Japan as an active ingredients for both external use cosmetics (such as lotions, packs, creams) and topical drugs (such as ointment, cream, etc.).

In skin treatment areas, Arbutin has also found many applications. Arbutin in combination with a adrenocortical hormone agent exhibits extremely strong synergistic effect with the hormone agent, and the agent is highly effective for the prevention and remedy of various skin diseases especially allergic inflammation such as contact dermatitis, atopic dermatitis, etc. In a Japanese patent, Arbutin in combination with allantoin or its derivative was reported to exhibit synergistic action to promote wound healing remarkably, and was suitable for use for chapped and rough skin. This Japanese patent claimed that the formula of 0.1 – 3% allantoin and 6-20% Arbutin has an excellent effect to promote the healing of wounds and is suitable to use on the skin after shaving or shampooing, for damaged nails and for cracked, chapped or rough skin, etc. In another Japanese patent, in combination with a water-soluble thickener and lower alcohol at specific ratios, Arbutin was found to have improved stability and safety, an excellent skin – beautifying effect, and a remedying effect to chromatosis.

In perfumery, Arbutin has found use as a perfume fixative in a Japanese patent, where Arbutin was reported to keep fragrance active for a long period of time and to improve fragrance balance from the time immediately after use to the end.

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