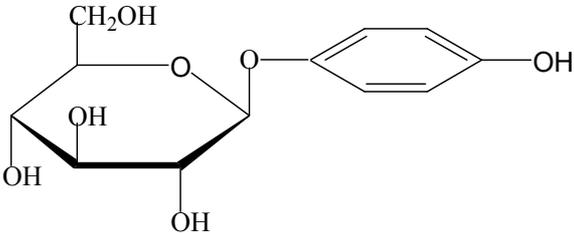
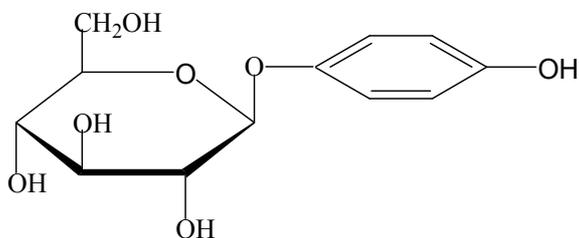


PRODUCT DATA

Nov 2008

Olevatin™ Alpha

Trade Name:	Olevatin™ Alpha
INCI Name:	Alpha-Arbutin
Chemical Name:	4-Hydroquinone- α -D-glucopyranoside
CAS No.	84380-01-8
EINEC No.	440-470-8
Molecular Weight:	272.25
Structural Formula:	



Alpha-arbutin is a skin beautifying and whitening agent which can effectively and selectively inhibit tyrosinase activity, therefore eliminate the formation of melanin and hyperpigmentation without altering the normal growth of the epidermic cell or inhibiting the expressing of tyrosinase itself. Alpha-arbutin involved process neither produce hydroquinone, nor have other side effects including toxicity, imitation and sensitization of skin. As a skin lightening agent, it has 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 melanosin. It can infiltrate into the skin quickly without affecting the concentration of cell multiplication while reducing the deposition of skin pigment and removing color spots and freckles. Alpha-arbutin causes no irritation, scarce sensitization, it helps disinfect and moisturize the skin and eliminate inflammation, which permits continuous use for a long period of time in high concentration to develop satisfactory skin lightening effects. Alpha-arbutin shows much higher skin lightening effects at the same level as of hydroquinone which promises a better lightening performance at a lower dosage. Whitening effect, anti-aging effect and UVB/UVC filter are three main properties given by Alpha-arbutin, so it can be used to whiten the skin, to prevent liver spots and freckles, to treat sunburn marks and to regulate melanogenesis.

This information is believed to be accurate and is intended for general guidance. It should not be construed as a guarantee of its suitability for a particular application. Sino Lion (USA), Ltd. offers no warranties, either expressed or implied, nor is freedom from any patent owned by Sino Lion (USA), Ltd. or others implied; neither is liability accepted for errors or omissions in the information. Typical properties of products are given for guidance only and do not necessarily represent manufacturing specifications.

Typical Properties:

Appearance:	White crystalline powder
Melting Point:	205°C
Assay (HPLC):	99.8%
pH (1% aqueous solution)	5.8
$[\alpha]_D^{20}$:	+180.0°
Hydroquinone:	Not Detectable

Storage Conditions:

Keep tightly closed in dry containers, protected from light and moisture, at temperatures below 25°C.

Packaging: 1kg/ Aluminum bag

Applications: All cosmetic and personal care products.

Shelf Life/ Retest Date:

24 months from the manufacturing date in unopened package under condition indicated above