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## BETA-ARBUTIN

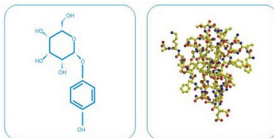
4-Hydroquinone- $\beta$ -D-glucopyranoside

C.A.S NO.:497-76-7

EINECS NO: 207-850-3

M.F. C12H16O7

N.W.:275.25



### DESCRIPTION:

White to off-white needle crystals or powder

Beta-Arbutin is a natural double action whitening agent. It's new type of skin depigmentation and whitening agents. Arbutin is very safe skin agent for external use which does not have toxicity, stimulation, unpleasant odor or side effect such as Hydroquinone. It can be encapsulated in a delivery system to give the sustained effect in time and to incorporate the hydrophilic Arbutin in lipophilic media.



### APPLICATIONS

Arbutin protects the skin from damages caused by free radicals. Arbutin is a skin agent which eliminates the formation of melanin pigment by inhibiting Tyrosinase activity.

Usage: Cosmetic productions:0.5-3%

### SPECIFICATIONS

Assay	$\geq 99\%$
M.P	199-201
Loss on drying	$\leq 0.5\%$
Heavy metal	$\leq 20\text{ppm}$
PH value	5.0-7.0(1% aqueous solution)
Clarity of water solution	Transparent, colorless, none suspended matters
Bacteria count	<300 CPU

### SHELF LIFE AND STORAGE

2 years stored in full, tightly closed containers, protected from heat and light at room temperature.

### PACKING

1kg/bag, 25bags in one drum. Or 25kgs/ double PE bags with per 25kgs fabric drums



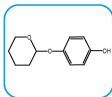
## Deoxy-Arbutin

4-[(Tetrahydro-2H-pyran-2-yl)oxy]phenol

CAS NO.:53935-56-4

M.F. : C<sub>11</sub>H<sub>14</sub>O<sub>3</sub>

N.W.: 194.23



脱氧熊果苷 Deoxy arbutin

### DESCRIPTION:

Deoxy arbutin (DA), a synthetic form of arbutin synthesized without the hydroxyl moiety, provides A promising treatment for reducing skin hyperpigmentation

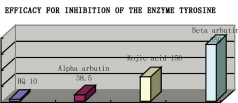
The effecton for inhibition of the enzyme tyrosine is

350 times more effective than beta arbutin ;

38.5 times with alpha arbutin.

150 times more effective than kojic acid;

10 times more effective than hydroquinone (without being toxic or irritating to the skin).



### APPLICATION:

Deoxyarbutin used in cosmetic industry whitening ingredients :

Deoxyarbutin protect the skin against damage caused by free radicals. Deoxyarbutin is a skin whitening agent which is very popular in Japan and Asian countries for skin de-pigmentation. Deoxyarbutin inhibits the formation of melanin pigment by inhibiting Tyrosinase activity. Deoxyarbutin is very safe skin agent for external use which does not have toxicity, stimulation, unpleasant odor or side effect such as hydroquinone. The encapsulation of Deoxyarbutin constitute a delivery system to potentitalize the effect in time. It is a way to incorporate the hydrophilic Deoxyarbutin in lipophilic media. Deoxyarbutin give three main properties; Whitening effects, anti- age effect and UVB/ UVC filter .

◆ Advise additive:0.5-1.0%.

### SPECIFICATION:

Appearance	White to off-white crystalline powder
Assay	≥99%
M.P.	84~88℃
Loss on drying	≤0.5%
Heavy metal	10ppm max
Arsenic	2ppm max
Clarity of alcohol solution	Transparency, colorless, none suspended matters
Residue on ignition	≤0.5%
Pathogen	≤300cfu/g

### SHELF LIFE AND STORAGE:

2 years stored in full, tightly closed containers, protected from heat and light at room temperature.

### PACKAGE:

Fabric drum,1kg 25 inner PE bags / outer foil. Bags vacuumed packaged

## KOJIC ACID

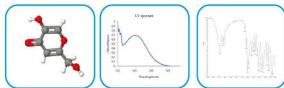
5-hydroxy-2-hydroxymethyl-4-pyrone

CAS NO.:501-30-4

EINECS No.: 207-922-4

M.F.: C<sub>6</sub>H<sub>6</sub>O<sub>4</sub>

N.W.: 142.11



### DESCRIPTION:

Kojic Acid is a natural antibiotic agent obtained from koji malt. Koji malt has been used for the production of miso, soya and sake in China for a long time.

Kojic Acid is well known for its skin lightening effect. By preventing the production of melanin, it lightens age spots, sun damage, scars from acne, freckles, and melasma.

Kojic acid works to prevent melanin formation by inhibiting tyrosinase activity at the deeper layers of the skin. The excess production of melanin can bring about pigmentation, causing the appearance of brown irregular patches on the skin, especially those that are exposed to the sun.

Kojic Acid also has antibacterial, antifungal and antioxidant attributes.

### APPLICATION:

Kojic acid are most often applied to the skin topically, in the form of a cream, lotion, or serum.

The usual recommended dosage of kojic acid is relatively small, often with a maximum concentration of 1%. However to decrease the chances of side effects, most skin lightening products use a concentration closer to 0.2%. Of course, one must also take into consideration how this skin lightening treatment will react with their individual body. Those who experience sensitivity may need to apply it less frequently and re-evaluate their usage.

### SPECIFICATION:

Appearance	White to off-white crystalline powder
Assay	≥99%
M.P.	152~156°C
Loss on drying	≤0.5%
Heavy metal	1000ppm max.
Arsenic	1000ppm max.
Residue on Ignition	≤0.10
Chlorides	≤0.005
Ash	≤0.5%
Total plate count	≤3000cfu/g

### SHELF LIFE AND STORAGE:

2 years stored in full, tightly closed containers, protected from heat and light at room temperature.

### PACKAGE:

FabriFabric drum, 1kg 25 inner PE bags / outer foil. Bags vacuumed packaged

## Kojic Acid Dipalmitate

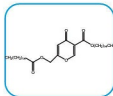
2-palmitoyloxymethyl-5-palmitoyloxy-Y-pyrone

CAS NO.: 79725-98-7

EINECS No.: 207-922-4

M.F.: C38H66O6

N.W.: 618.9



曲酸二棕榈酸酯Kojic acid dipalmitate

### DESCRIPTION:

Kojic acid dipalmitate is a new skin whitening agent, it can prevent the formation of melanin by inhibiting the activity of tyrosine effective ratio can be up to 80%,so it have a evidently whitening effect.

### APPLICATION:

KAD using in skin whitening and sunscreen product; the chemical property of it is very stable; suitable to 3-10 PH value; advice to add antioxidant;

Advise additive: 1-5%

### SPECIFICATION:

Appearance	White to off-white crystalline powder
Assay	≥99%
M.P.	84~88℃
Loss on drying	≤0.5%
Heavy metal	20ppm max.
Total plate count	≤300cfu/g

### SHELF LIFE AND STORAGE:

2 years stored in full, tightly closed containers, protected from heat and light at room temperature.

### PACKAGE

Fabric drum,1kg 25 inner PE bags / outer foil. Bags vacuumed packaged