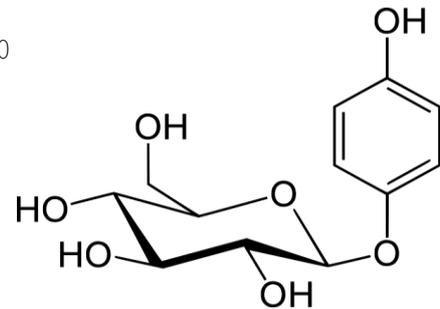


TECHNICAL DATA SHEET

Product name	: β -Arbutin	α -Arbutin
Synonyms	: P-hydroxyphenyl- β -D-glucopyranoside	4-hydroxyphenyl- α -D-glucopyranoside
Specific rotation	: (a)20D=-66-+2	(a)20D=+174.0-+186.0
CAS No.	: 497-76-7	84380-01-8
EINECS/ELINCS	: 207-850-3	440-470-8
Molecular formula	: C ₁₂ H ₁₆ O ₇	
Molecular weight	: 272.25	



Description

Arbutin is a glycoside; a glycosylated hydroquinone extracted from the bearberry plant in the genus *Arctostaphylos* among many other medicinal plants, primarily in the *Ericaceae* family. Applied topically, it inhibits tyrosinase and thus prevents the formation of melanin, therefore used as an ideal skin-lightening agent of cosmetics. Arbutin can gradually reduce and eliminate skin freckles, melasma, hyperpigmentation, acne and age spots.

There are two kinds of optical isomers, namely α and β . α -Arbutin exhibits impressive in-vitro tyrosinase inhibition on human cell lysates, which has 10 times more effective compared to β -Arbutin. The α isomer has higher security and no irritating, allergenic and other side effects, good compatibility with cosmetics components and ultraviolet irradiation stability.

Because of the function of Antibacterial and Anti-inflammatory, Arbutin also could work as diuretic and anti-infective drugs of urinary system.

Specifications

Purities	> 98%
Color	Colorless to white
Form	Powder
Loss on drying	≤ 3.0%
Heavy metals	≤ 10ppm
Lead	≤ 2ppm
Cadmium	≤ 2ppm
Arsenic	≤ 2ppm
Mercury	≤ 2ppm
Microbials	
Total Plate Count	NMT 1000 cfu/g
Yeast and Mold	NMT 100 cfu/g
Escherichia coli	Negative
Salmonella	Negative
Solubility (in vitro)	5.0 g/100 mL in water. Soluble in alcohol, slightly soluble in ethyl ether.
Stability	Avoiding the high temperature; Hygroscopic
Melt point	195-196°C
Flash point	293.4°C

Allergement Statements

	Absent	Present
Milk and products thereof	X	
Eggs and products thereof	X	
Fish and products thereof	X	
Crustaceans and products thereof	X	
Tree nuts	X	
Wheat and products thereof	X	
Peanuts and products thereof	X	
Soybeans and products thereof	X	

Applications

Food and feed.

Status

Non GMO product.

Not Irradiated product.

Gluten Free product.

Animal Origin Free product.

Packaging

1kg per foil bag, 25kg per fiber drum.

Shelf life and Storage

24months unopened stored in a cool and dry