

ANTI-WRINKLE ANTI-OXIDANT ANTI-GLYCATION COLLAGEN SYNTHESIS

Functional Wrinkle Care

ARCTIUM SEED EXTRACT

INCI NAME : ARCTIUM LAPPA SEED EXTRACT / HYDROXYPROPYL CYCLODEXTRIN

GENERAL DESCRIPTION FOR RAW MATERIAL

Arctium lappa, also known as a great burdock, is a Eurasian species of plants in the sunflower family, cultivated in gardens for its root used as a vegetable. Dried burdock roots (*Bardanae radix*) are used in folk medicine as a diuretic, diaphoretic, and a blood purifying agent.^[1] Anecdotal reports from the 19th century suggest that this medicinal plant has also been used by the Ojibwa tribe, and today, in form of an ingredient in Essiac tea for the alternative treatment of some cancers.^[2] As an oily macerate, it is a component of some cosmetics, shampoos and hair care products. The seeds of greater burdock are employed in traditional Chinese medicine particularly for skin conditions and in cold/flu formulas^[3]. SK bioland's ARCTIUM SEED EXTRACT contains high content of arctiin as a main active and is anti-aging cosmetic ingredient covering various aging factors which is clinically proven.

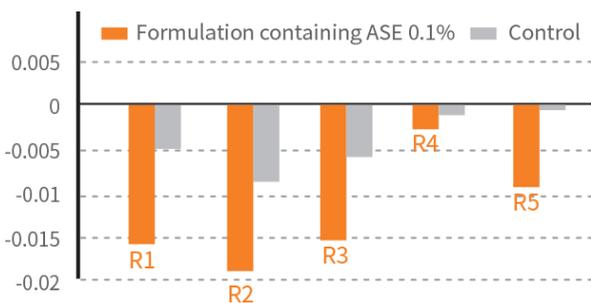
1. Chan Y.-S.; Cheng L.-N.; Wu J.-H.; Chan E.; Kwan Y.-W.; Lee S.M.-Y.; Leung G.P.-H.; Yu P.H.-F.; Chan S.-W. (2010). "A review of the pharmacological effects of Arctium lappa (burdock)". *Inflammopharmacology*.
 2. S.M.; Sen A.; Feng Y.; Green J.; Olatunde S.; Boon H. (2006). "Trial of essiac to ascertain its effect in women with breast cancer (TEA-BC)". *Journal of Alternative and Complementary Medicine*. 12 (10): 971-980. doi:10.1089/acm.2006.12.971
 3. School of Chinese Medicine database Archived August 26, 2014, at the Wayback Machine.

EFFICACY

After application of cream containing 0.1% ARCTIUM SEED EXTRACT

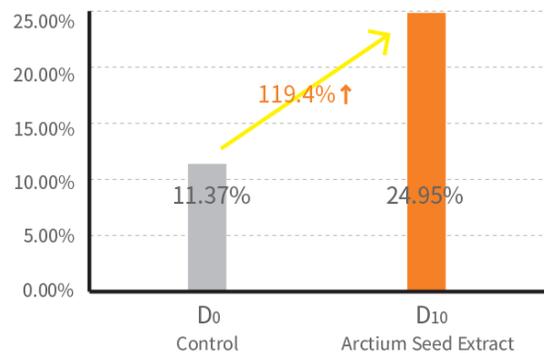


Statistical significance at R3



Glycosaminoglycans(GAG) Activity

Neutral GAGs under Dermal-Epidermal Junction (%)



ANTI-WRINKLE

ANTI-OXIDANT

ANTI-GLYCATION

COLLAGEN SYNTHESIS

SPECIFICATION

Appearance	Pale yellowish white powder
Odor	Typical
Loss on drying	Not more than 5.0%
Ash (1.0g)	Not more than 0.5%
Total bacterial count	Not more than 100cfu/mL
Yeast & molds	Not more than 10cfu/mL

TECHNICAL INFORMATION

Processing & Dosage

The recommended dosage of ARCTIUM SEED EXTRACT is 0.1%. ARCTIUM SEED EXTRACT is not water-soluble and soluble in butylenes glycol, propylene glycol, glycerin and ethyl alcohol. In order not to disturb the structure and conformation of the actives, it is recommended to incorporate it into formula at the last phase of the formulation at about 40°C.

Storage & Shelf life

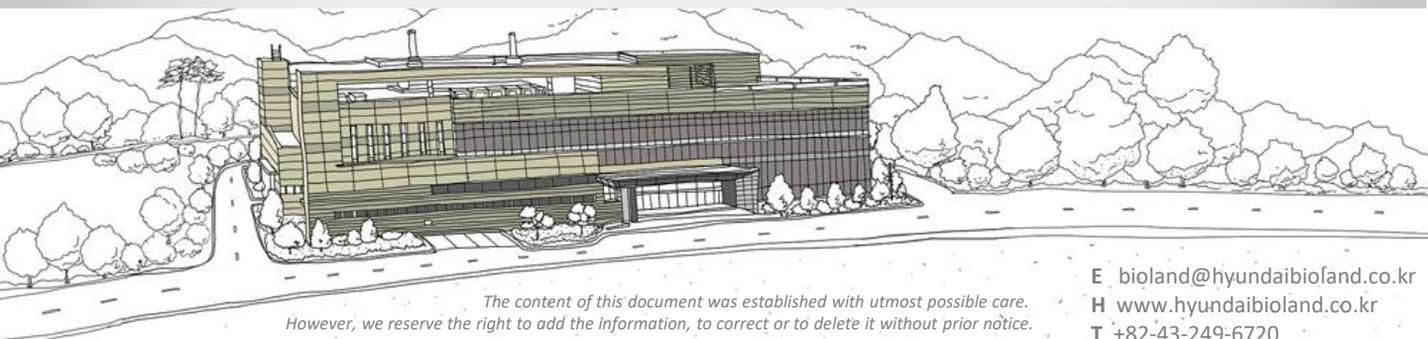
ARCTIUM SEED EXTRACT should be stored at room temperature in a tightly closed and lightproof package. If stored in these appropriate conditions the shelf life is at least 24 months. Once the original packing is opened, it is highly recommended to use at once.

Safety information

Arctium lappa has long been used as a food and traditional medicine in the world. A popular Japanese dish is kinpira gobō, julienned or shredded burdock root and carrot, braised with soy sauce, sugar, mirin and/or sake, and sesame oil. Another is burdock makizushi, rolled sushi filled with pickled burdock root; the burdock root is often artificially colored orange to resemble a carrot. Burdock root can also be found as a fried snack food similar in taste and texture to potato chips and is occasionally used as an ingredient in tempura dishes. Based on its various usage as a food, we believe that ARCTIUM SEED EXTRACT is safe for cosmetic application.

PRODUCT INFORMATION

TRADE NAME	ARCTIUM SEED EXTRACT
INCI NAME	-
ARCTIUM LAPPA SEED EXTRACT	-
HYDROXYPROPYL CYCLODEXTRIN	-
STANDARD PACKAGE	0.1KG



The content of this document was established with utmost possible care.
However, we reserve the right to add the information, to correct or to delete it without prior notice.

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