

ANTI-INFLAMMATORY

ANTI-OXIDANT

WHITENING

Anti-inflammatory & Anti-oxidant & Whitening

LICORICE EXTRACT

INCI NAME : WATER / BUTYLENE GLYCOL / GLYCYRRHIZA GLABRA(LICORICE) ROOT EXTRACT



GENERAL DESCRIPTION FOR RAW MATERIAL

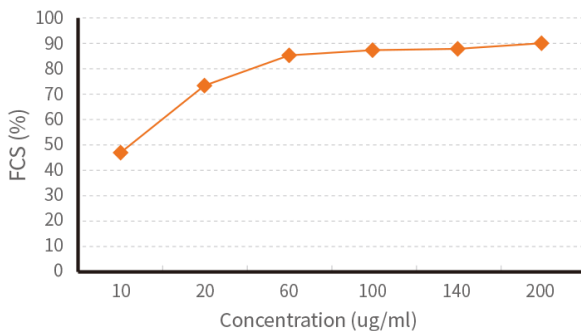
Licorice is an erect, hardy perennial that reaches 3 to 7 feet. Small, alternate, inch-long leaflets and 1/2-inch purple midsummer flowers give the plant a graceful beauty. Mature plants have long taproots that send out creeping horizontal rhizomes (stolons) which are the source of other shoots and more branching roots. This creates a tangled mass of underground growth. Licorice roots have brown bark and sweet, juicy, yellow pulp.

A papyrus dating from the time of Roman Empire describes the therapeutic value of licorice, and the root was also mentioned in the first Chinese herbal. Hippocrates, Theophrastus, and Pliny all referred to licorice. It was recommended for soothing throats and slaking thirsts. In North America Blackfoot Indians used wild licorice (*Glycyrrhiza Missouriensis*) as an infusion to treat earaches.

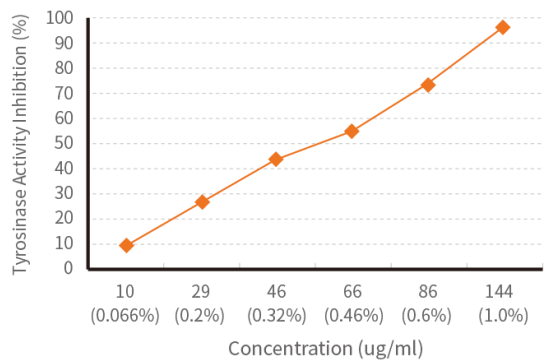
Licorice’s medicinal uses have included treatment of dropsy; fever; menstrual cramps; menopausal symptoms; irritated urinary, bowel, or respiratory passages; influenza; and hypoglycemia. In addition it has been used as a diuretic, demulcent, expectorant, emollient, antispasmodic, mild laxative, and cough remedy, and to relieve hoarseness, congestion, bronchitis, and ulcers. Licorice was often added to other medicines not only to make them more palatable but also to keep pills from sticking together.

EFFICACY

Free Radical Scavenging Activity



Tyrosinase activity inhibition



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TECHNICAL INFORMATION

Processing & Dosage

The recommended dosage of LICORICE EXTRACT is 1-3% to obtain a significant anti-inflammatory and anti-ageing effect. LICORICE EXTRACT is a water soluble active ingredient. 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

LICORICE 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

GLYCYRRHIZA GLABRA (LICORICE) ROOT has long been used as a medicine. Based on its usage as a tea, GLYCYRRHIZA GLABRA (LICORICE) ROOT is believed as a safe material for cosmetic use.

SPECIFICATION

Appearance	Yellow brown liquid
Odor	Typical
Refractive Index (N_D^{20})	1.365 ~ 1.415
pH (1→10)	4.0 ~ 6.0
Specific Gravity (d20/20)	1.000 ~ 1.050
Dry Residue (1g, 105°C, 3hr)	0.8 ~ 4.0%
Total bacterial count	Not more than 100cfu/mL
Yeast & molds	Not more than 10cfu/mL

PRODUCT INFORMATION

TRADE NAME	LICORICE EXTRACT	INCI Key Index
INCI NAME	COMPOSITION (INCI Key Index)	A : Greater than 50%
		B : Greater than 25% but less than or equal to 50%
WATER	B	C : Greater than 10% but less than or equal to 25%
BUTYLENE GLYCOL	B	D : Greater than 5% but less than or equal to 10%
GLYCYRRHIZA GLABRA(LICORICE) ROOT EXTRACT	E	E : Greater than 1% but less than or equal to 5%
		F : Greater than 0.1% but less than or equal to 1%
STANDARD PACKAGE	20KG	G : Less than or equal to 0.1%



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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