

Licorice Extract for OTC pharmaceuticals and cosmetics

Licorice Extract is the natural, concentrated juice obtained by water and steam extraction out of the licorice roots (*Glycyrrhiza glabra L.*). **Licorice Extract is a foodstuff** which is widely used as an ingredient for its aromatic, sweetening and debittering properties. Besides applications in food and animal nutrition products, Licorice Extract and/or some of its components, are used in natural medicines, OTC pharmaceuticals and cosmetics.

- ▶ **Glycyrrhizin**, resp. glycyrrhizic acid is a strongly sweetening glycoside that naturally occurs as a component in licorice roots. According to the origin of the raw material and the supply form, **Licorice Extract** provides different taste profiles of interest for the final applications, e.g. mild, sweet, fine aromatic, caramel-like, bitter-sweet or typically licorice-spicy.
- ▶ **Licorice Extract** is defined by its natural sensory properties as follows: sweetening, flavouring, debittering, masking unpleasant off-tastes or neutralizing bitter gustatory notes. Single components or phytochemicals of *Glycyrrhiza glabra* (e.g. saponins, flavonoids) have a physiological effect and are valued for their health beneficial attributes. Examples of current products existing in the pharma and cosmetic market segments show the broad application range of Licorice Extract a/o its derivatives as a natural ingredient in different product formulations:

Application examples in OTC pharmaceuticals & natural medicines	Application examples in cosmetics & bodycare products
Pastilles and compound tablets against sore throat and raucousness	Shampoo, shower gels, soaps and washing lotions
Cough syrup	Lipsticks, lipcare products, lip balms
Pastilles, lozenges, chewy dragees against dry mouth and mouth bitterness	Facial masks (skin cleansing, soothing)
Pastilles, lozenges for better digestion	Skincare creams
Phytotherapeutics, natural medicines (capsules, dragees, soft chews, pastilles)	Suncare products (protection of sensitive skin pigments)
Toothpaste, chewing gum for oral care	Natural cosmetic products
Dermatological creams	Cosmeceuticals
Nutrition supplements, nutraceuticals	Aromatic compositions

- ▶ **Norevo supplies Licorice Extract in user-friendly forms:**
 - ▶ Licorice Granules - small granulate, quickly soluble
 - ▶ Licorice Paste, low-viscous and pumpable liquid paste
 - ▶ Licorice Paste sugar-reduced a/o Licorice Paste type with ammonium chloride
 - ▶ QSLic (Quick Soluble Licorice) low-dust, spray-dried, agglomerated powder
- ▶ **Traditional forms:** Licorice Extract blocks and spray-dried powder
- ▶ **Analysis acc. to Pharm.Eur. is possible for Licorice in powder form.**
- ▶ Norevo's process-oriented Licorice Extract qualities from own development and production enable a clean handling, a swift and complete dissolution and provide a diversified sensory yield across a broad range of applications. On customer's request, we supply mixed formulations of Licorice Extract with other ingredients, e.g. sugar derivatives, ammonium chloride etc. Packing form according to the supply form - poly-paper-bags and cartons with polyliner, buckets, IBC containers.
- ▶ Norevo supplies the natural **Licorice Extract** acc. to the ruling food regulations. The extract is obtained from wild growing roots in Central Asia, China and the Mediterranean region. The incoming raw licorice extract from approved suppliers in the countries of origin as well as our Licorice Extract production are submitted to a thorough analytical check which is carried out either in our in-house lab or in external specialized laboratories in Germany.

Norevo Licorice specialists are available for information and sample material: Tel.+49 40 537979-0 / contact@norevo.de