



General Specification

Licorice root CO₂-to extract with MCT Oil

Variety Uralensis, Type No. 175.004



Raw material:	<i>Glycyrrhiza uralensis</i> - Root, dried
Production:	By supercritical fluid extraction with natural carbon dioxide and a small amount of ethanol as entrainer, no inorganic salts, no heavy metals, no reproducible microorganisms [1]. The extract is standardised with MCT oil to a content of NLT 8,5 % isoflavanes.
D/E - ratio:	13 - 17 kg licorice root to 1 kg product.
Organoleptic description:	Brown, at room temperature viscous licorice extract with light sweet flavour.
Composition:	50 % Licorice root CO ₂ -to extract 50 % MTC oil (coconut)
Ingredients:	The extract contains NLT 8,5 % isoflavanes, e.g. licoricidin and licorisoflavan A but no glycyrrhizic acid, 2 - 4 % ethanol.
Declaration:	In food: flavouring preparation or licorice root extract In cosmetics: INCI-Name: Glycyrrhiza Uralensis Root Extract, CAS-No. 94349-91-4, EINECS-No. 305-209-3 and Caprylic/Capric Triglyceride, CAS-No. 73398-61-5, EINECS-No. 277-452-2
Application:	In food: As flavouring preparation in confectionery, beverages and other foods. In cosmetics: The substances licoricidin and licorisoflavan A contained in the liquorice root CO ₂ extract have anti-inflammatory and antibacterial effects and inhibit the growth of oral pathogens. The extract is therefore suitable for use in toothpaste, mouthwashes and other dental care products [2].
Handling:	The concentrated FLAVEX extracts are the basic ingredients for the product formulation. They are therefore not intended for direct consumption in food, nor for direct application to the skin in cosmetics, perfumery and aromatherapy. Keep away from children!
Stability:	Unopened containers at least 5 years under exclusion of light and following conditions: Store in a cool, dry place!
Transport:	No dangerous good in the sense of the transport regulations.
REACH - Status:	This product is currently not subject to registration.



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Certification:	- KOSHER certified by KLBD (Beth Din Kashrut Division)
Conformity:	The product complies with the requirements of Regulation (EC) No. 1334/2008 on flavourings and with the requirements of Regulation (EC) No.1223/2009 on cosmetic products in the currently valid version.
Literature:	<p>[1] P. Manninen, E. Häivälä, S. Sarimo, H. Kallio, Distribution of microbes in supercritical CO₂ extraction of sea buckthorn (Hippophae rhamnoides) oils, Zeitschrift für Lebensmitteluntersuchung und -Forschung / Springer-Verlag (1997) 204: 202-205</p> <p>[2] Stefan Gafner et al., Isoflavonoids and Coumarins from Glycyrrhiza uralensis: Antibacterial Activity against Oral Pathogens and Conversion of Isoflavans into Isoflavan-Quinones during Purification, J. Nat. Prod., 2011, 74 (12), pp 2514–2519</p>

Disclaimer:

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