



Version No. 159.005_04_S, Date: 09.03.2021

General Specification

Rhatany Root CO₂-to extract standardised, Type No. 159.005



Raw material:

Krameria lappacea-Root, dried

Production:

By supercritical fluid extraction with natural carbon dioxide and addition of a small amount of ethanol as entrainer, no inorganic salts, no heavy metals, no reproducible microorganisms [1]. The extract is standardised with olive oil (organic) to specific extinction values of at least 20 cm²/mg in the complete UV-B range.

D/E - ratio:

24 - 33 kg rhatany roots to 1 kg product.

**Organoleptic
description:**

Orange-brown viscous liquid with a weak pleasant smell.

Composition:

about 60 % Rhatany Root CO₂-to extract
about 40 % olive oil (organic)

Ingredients:

Contains 20 - 30 % lignans, neolignans and norneolignans, residual content of ethanol ≤ 2 %.

Declaration:

In cosmetics:

INCI-Name: Krameria Triandra Root Extract, CAS-No. 84775-95-1, EINECS-No. 283-919-1 and Olea Europaea Fruit Oil, CAS-No. 8001-25-0, EINECS-No. 232-277-0

Application:

Traditional use:

Due to its astringent and antimicrobial effect, ratanhia root is used to treat minor local inflammation of the mouth and throat mucosa [2].

In cosmetics:

The ratanhia root extract has a specific extinction E' of at least 20 cm²/mg in the entire UV-B range of 280-320 nm and also absorbs in the UV-A2 range of 320-340 nm, while the less energy-rich long-wave UV-A1 rays, especially above 350 nm, are not affected. This ensures a uniform effectiveness in the entire erythema-active radiation range, while the pigmented light component is partially transmitted. In addition, the extract has an antioxidative effect, which prevents the formation of toxic lipid peroxides in the cells [3]. Hence, the extract is particularly suitable for the use in sun protection and skin care products. Due to its astringent and antimicrobial effects, ratanhia root is also used in dental and oral care products [2,3].

Handling:

Mix before use!

The concentrated 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:



Transport:	Store in a cool, dry place!
REACH - Status:	No dangerous good in the sense of the transport regulations.
Certification:	This product is currently not subject to registration. - KOSHER certified by KLBD (Beth Din Kashrut Division) - COSMOS certified by IONC (International Organic and Natural Cosmetics Corporation), 40 % certified ingredients (COSMOS-Standard)
Conformity:	The product complies with the requirements of Regulation (EC) No.1223/2009 on cosmetic products in the currently valid version.
Literature:	[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 [2] F.C. Czygan, D. Frohne, Chr. Hölzel, A. Nagell, P. Pachaöy, H.J. Pfänder, M. Wichtl, g. Willhuhn, W. Buff, Teedrogen und Phytopharmaka, 3. Auflage., Stuttgart: Wissenschaftliche Verlagsgesellschaft GmbH 1997 [3] Carini M, Aldini G, Orioli M, Facino RM., Antioxidant and photoprotective activity of a lipophilic extract containing neolignans from Krameria triandra roots., Planta Med. 2002 Mar;68(3):193-7.

Disclaimer:

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