Curcuma Xanthorrhiza CO2-se extract (organic)  
DE-ÖKO-013, Type No. 094.012

Raw material: Curcuma xanthorrhiza - Roots, dried, from organic farming

Production: By supercritical fluid extraction with natural carbon dioxide, no solvent residues, no inorganic salts, no heavy metals, no reproducible microorganisms [1].

Description: Contains mainly volatile components. Yellow - light-greenish clear liquid oil with typical smell.

D/E - ratio: 10 - 14 kg raw material yield 1 kg product.

Declaration: INCI-Name (CTFA): Curcuma Xanthorrhiza Root Extract, CAS-No. 89998-05-0, EINECS-No. 289-742-6

Halal - Status: Certified by Halal Certification Services (HCS)  
The certification is marked with the Halal Logo on the product.

Kosher - Status: Certified by London Beth Din Kashrut Division (KLBD)  
The certification is marked with the Kosher logo on the product.

Transport: No dangerous good in the sense of the transport regulations.

Ingredients: > 85 % essential oil containing mainly ar-curcumene, ß-curcumene and 18 - 28 % xanthorrhizol (Hydroxy-ar-Curcumene).

Application: Traditional Use:  
Javanese turmeric (Curcuma xanthorrhiza) is native to tropical Southeast Asia and is cultivated in Indonesia, especially Java, Malaysia and southern China. Curcuma xanthorrhiza and its preparations are used in traditional herbal medicine for symptomatic treatment of digestive disorders, such as feelings of fullness, slow digestion and flatulence.

In Oral Care:  
Curcuma xanthorrhiza CO2-extract contains about 25 % Xanthorrhizol but no yellow coloring curcuminoïds. Xanthorrhizol eradicates Streptococcus mutans, responsible for dental caries quickly within minutes and in a dosage as low as 5 microgram/ml. In terms of practical application a dosage of some hundred ppm of the supercritical Xanthorrhiza extract is recommended in the finished product. Xanthorrhizol also demonstrates antimicrobial activity against Actinomycyes viscousus and Porphyromonas gingivalis which are responsible for periodontitis. Therefore Curcuma xanthorrhiza extract is especially recommended for oral care products like tooth pastes, mouth wash and chewing gums. A lower activity was found against Candida albicans and Lactobacillus species [2].
In Food Supplements:
One or more animal and clinical trials prove choleretic efficacy of Curcuma xanthorrhiza essential oil [3].
A significant number of in vitro and in vivo trials confirms that Curcuma xanthorrhiza essential oil with Xanthorrhizol as bioactive component possesses a range of biological activities, such as anticancer, antimicrobial, anti-inflammatory, antioxidant, antihyperglycemic, antihypertensive, antiplatelet, nephroprotective, hepatoprotective, estrogenic and anti-estrogenic effects [4].

In Food:
The extract is used in food industry as spice for soups, rice- and meat- dishes, in confectionery and liqueur industry. Xanthorrhizol has strong antibacterial activity with thermal and pH stability. Hence, it can be effectively used as a natural preservative to prevent the growth of foodborne pathogens [5].

Naturalness: The product is manufactured from the named raw material. It contains no additives and no other technical adjuncts, it is 100 % natural and it corresponds to the EC Flavouring Regulation No. 1334/2008 for flavouring preparations.

Stability: Unopened container under cool and dry storage conditions and exclusion of light at least 5 years.

References:

Disclaimer: These data are given for customer’s information only to the best of our knowledge but under exemption of liability especially regarding infringement of or prejudice to third party rights through the use of this product. Users are responsible for ensuring the compliance with the applicable legislation.

The concentrated FLAVEX extracts are raw materials for product formulation. Hence they are not intended for direct consumption in food and for undiluted topical application in cosmetics, perfumery and aromatherapy. Keep away from children.