

PRODUCT SPECIFICATION

Version:

01

Date:

05.04.2023

LIQUID SAFFRON

ARTICLE-KEY FIGURES:

Designation: Liquid Saffron

Item-No.: 102012.10, 102012.Box

Country of origin: Switzerland/Germany (carrier substances), Iran (saffron)

Composition: Saffron extract (propylene glycol, water, saffron threads, emulsifiers (soy leci-

thin, vitamin E))

PRODUCT DESCRIPTION:

Liquid Saffron is a highly bioavailable natural liquid saffron extract derived from real saffron threads (Crocus sativus), of Iranian origin. It's characterized by its high bioavailability, intense saffron smell, and taste, excellent coloring power, and 2 – 3 times lower saffron consumption. The product is water soluble, free of alcohol (ethanol), and vegan.

The saffron threads were gently extracted in a special extraction and made highly bioavailable with a patented process. This significantly improves physical absorption and combines new and traditional applications as a food additive or dietary supplement.

SPECIFICATIONS:

Dyes (1):

Prohibited dyes (a) $< 10 \mu g/kg \text{ (per substance)}$

Synthetic dyes (b) < 4 mg/kg (per substance and as sum)

Pesticides (2): $\leq 0.01 \text{mg/kg} (\leq 10 \text{ ppb per substance})$

Heavy Metals (3):

Residual Solvents: Ethanol is used as a processing agent but does not

come in direct contact with the product. Cross-contamination cannot be avoided 100 %. The values are far below the legal limits for food (SR 817.022.42,

Appendix 1).

Microbiology (4):

Total count of aerobic microorganisms≤ 10'000 CFU/gTotal count of yeasts and molds≤ 100'000 CFU/gEscherichia coli≤ 10'000 CFU/gSalmonellaAbsent (pro 25 g)Clostridium perfringens≤ 10'000 CFU/gPresumptive Cacillus cereus≤ 10'000 CFU/g

PHYSICAL PROPERTIES:

Appearance Dark red/orange liquid.
Odor/Smell/Taste Characteristic of saffron.

Consistency Liquid

Melting point $< -10 \,^{\circ}\text{C} \, (14 \,^{\circ}\text{F})$



PRODUCT SPECIFICATION

Version:

01

Date:

05.04.2023

LIQUID SAFFRON

Solubility Fully soluble in water and ethanol. Very good soluble

in fatty liquid foods (e. g. edible oil, cream, milk, yo-

gurt).

Density 1.040 – 1.060 g/mL

pH-Value 5.20 – 5.70

PACKAGING, APPLICATION & STORAGE:

Primary packaging Miron glass (violet glass; soda-lime glass class 3)

with LDPE dropper mount, HDPE/PP cap (in-

side/outside).

Secondary packaging Cardboard folding box (102012.10).

Cardboard box (102012.Box).

Application areas Liquid saffron extract as a food additive or food die-

tary supplement.

Consuming unit 3 drops / 200 mL liquid/beverage.

8 drops / 200 g food.

Consumption recommendation 3 times a day 3 drops in 200 mL liquid/beverage

resp.

3 times a day 8 drops in 200 g food.

beverage and distribute well. For solid dishes (e. g. rice, pasta) it's recommended to add a small amount of cooking oil or butter before adding *Liquid Saffron*.

Container sizes 10 mL (102012.10).

3x 10 mL (102012.Box).

Shelf life 15 months ex manufacturing date (under recom-

mended storage conditions).

Storage conditions $15-30\,^{\circ}\text{C}$ (59 – 86 °F) – Tightly closed and protected

from light and humidity.

CONFORMITIES:

Product

Compliant with basic food laws and with specific regulations on food dietary supplements in Switzerland, Germany, and Austria: SR 817. (LGV), SR 817.022.14 (VNem), Regulation (EU) No. 178/2002,

Directive 2002/46/EC.

Compliant with Swiss Contaminants Ordinance SR

817.022.15.

Compliant with Swiss Pesticides Ordinance (VPRH)

SR 817.021.23.

Compliant with Swiss hygiene regulation on foods (HyV) SR 817.024.1 and the guidelines of the German Society for Hygiene and Microbiology (DGHM).

Allergens Contains soy lecithin.

Contains no other substances or products that trigger allergies or intolerances according to Regulation

(EU) No. 1169/2011, Appendix II.

GMO The product has been produced free of GMOs accord-

ing to SR 817.02 (LGV), Regulation (EC) No. 1829/2006, and Regulation (EC) No. 1830/2003.

Packaging (bottle) Compliant with SR 817.02, Regulation (EC) No.

1935/2004, Directive No. 94/62/EC (Art. 11, heavy metal total content), VO (EG) Nr. 1895/2005, LFGB §



Packaging (cap)

PRODUCT SPECIFICATION

Version:

01

Date:

05.04.2023

LIQUID SAFFRON

30, 31, DIN ISO 719 (Version 1989-12), US FDA com-

Compliant with SR 817.02, Regulation (EC) No. 1935/2004, Regulation (EU) No. 10/2011, Directive No. 94/62/EC (Art. 11, heavy metal total content), FDA 21 CFR § 177.1520, § 178.3297, Resolution AP (89) 1, BfR Recommendation IX, Ph. Eur. (9. Edition) Chapter 3.1.3, 3.1.4, 3.1.5, 3.1.6, 3.2.2, USP Chapter

661.1 (Edition USP 39).

Child proof closure Compliant with ISO 8317, US 16 CFR § 1700.20.

Elemental impurities (ICH Q3D) Class 1, 2A, 2B, and 3 elements are not part of the product formulation, nor intentionally added during

manufacturing.

REACH Compliant with Regulation (EC) No. 1907/2006, in

particular regarding SVHCs.

Compliant with relevant chapters of SR 817.02 resp. Good Manufacturing Practice (GMP)

Regulation (EU) No. 2023/2006. Therefore a HACCP system is implemented, the production is carried out in suitable hygienic areas, and complete production documentation down to the raw material level is

given.

BSE/TSE No raw materials of animal origin are used. Compli-

ant with Regulation (EC) No. 1069/2009, Regulation

(EC) No. 142/2011, EMA/410/01.

Disclaimer: This specification does not release the purchaser of our products from his quality responsibility and duty of care. The specifications of the products are subject to change without notice, the current valid specification at the time of contract conclusion applies. The specification was created digitally and is only valid with a 3-fold signature.

⁽a) Prohibited dyes: Sudan I – IV, Sudan Red B, Sudan Orange G, Sudan Red G, Sudan Red 7B, Nitroaniline Red, Butter Yellow, Rhodamine B, Orange II, o-Aminoazotoluene, Toluidine Red, Metanil Yellow, Sudan Black B, p-Nitroaniline, Orange OT, Auramine O, cis-Bixine, Basic Red 46, Solvent Orange 3 (b) Synthetic dyes: E102 tartrazine, E104 quinoline yellow, E110 Sunset Yellow FCF / Yellow orange S, E122 azorubin, E123 amaranth, E124 ponceau 4 R / cochoneal co, grander Grander (1997), p. 110 June 1 Penow, p. 110 June 1 Penow For 7 Tenow orange 5, p. 122 azorubin, p. 123 amaranti, p. 124 ponceau 4 K / cochoneal red A, E127 erythrosine, p. 128 Red2G, p. 129 Allura Red AC, p. 131 Patent Blue, p. 132 indigotine / Indigo carmine, p. 133 Brillant Blue FCF, p. 142 Green S, p. 151 Black PN, p. 155 Brown HT

PN, E155 Brown HT
According to SR 817.021.23 (VPRH), Appendix 2; Regulation (EC) No. 396/2005; Ph. Eur. Chapter 2.8.13, Table 1 (Pesticide residues).
According to SR 817.022.15 (Contaminants Ordinance); Ph. Eur. Chapter 2.4.27 (Heavy metals in herbal medicinal products and oils).
Related to saffron raw material – According to SR 817.024.1 (Hygiene Ordinance; Guideline values DGHM (German Society for Hygiene and Microbiology); Ph. Eur.
Chapter 2.6.12 (Micro bacterial testing of non-sterile products), Kap. 2.6.31 (Micro bacterial quality of herbal medicinal products for oral use).