

Vitaron K

(2% beta-carotene water solution).

Product Specification

VITARON K

Appearance

Viscous transparent liquid

Colour

Orangered liquid

Water solubility

Solved in water in any proportions

Beta-carotene content in 1g

No less 2%

Vitamin C content in 1g

No less 0,8 %

Vitamin E content in 1g

No less 2%

Lead mg/kg

0,015

Cadmium mg/kg

less than 0.005

Arsenium mg/kg

less than 0.05

Mercury mg/kg

less than 0.01

Yeast and mold fungi	CFU/g
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less than 10

Escherichia coli

not available in 1 g

Salmonella

not available in 10 g

Basic Information

Empirical formula: C₄₀H₅₆

Molecular weight: 536.9 g/mol

Chemical denomination: β- Carotene

Synonyms: Provitamin A

Description:

Water solution of red or reddish-brown colour with a faint odour of boiled carrot. The solution contains beta-carotene, Vitamin E, Vitamin C and water.

Beta-carotene is sensitive to atmospheric oxygen and daylight (UV-light) exposure.

Content:

Quantitative content of beta-carotene is min 2%.

Microbial purity: according to specification.

Product specification:

Conforms to the manufacturer's specification.

Conforms to the Unified Sanitary Epidemiological and Hygienic Requirements for Goods Subject to Sanitary and Epidemiological Supervision.

Meets the requirements of the European Pharmacopoeia "Beta-carotene" and monograph of the *Food Chemicals Codex* "β-carotene", as well as purity requirements of the Directive 2008/128/E C (E160a).

Application:

Beta-carotene is applied as a natural FCF and a source of provitamin A, vitamin E and C to fortify food, food products, specialized products and drinks with these micronutrients.

May be used as a coloring agent for preparation of confectionery, pasta, mayonnaise, dairy products, cheese, ice-cream and other food products.

Safety analysis:

Toxic agents:

Lead – 0,015 mg/kg

Cadmium – <0,005 mg/kg

Arsenium – <0,05 mg/kg

Mercury – <0,01 mg/kg

Storage conditions and shelf life (exp.):

Store in the original packaging in a dry, cool, shadowed place at a temperature of 5°C to 20°C.
The shelf life is 24 months from the date of manufacture.