

Specification Sheet

Product Name: Sodium Copper Chlorophyll

CAS No.: 11006-34-1

E- Number: E 141

Other Name: Sodium-copper chlorin e6, Chlorophyllide Cu complex sodium salt

Molecular Formula: Chlorophyllin a (acid form): C₃₄H₃₄N₄O₅;

Chlorophyllin b (acid form): C₃₄H₃₂N₄O₆, or C₃₄H₃₁CuN₄Na₃O₆

Description

Chlorophyll is a natural green pigment which is obtained through extraction and refining processes from natural green plants or silkworm feces. Sodium copper chlorophyll is stabilized chlorophyll, which is prepared from chlorophyll by saponification and replacement of magnesium atom with copper and sodium.

Copper chlorophyllin is very heat, light and pH stable compared to magnesium based chlorophyll found in nature. It is available as a water soluble liquid or powder; an oil soluble version is also available.

Appearance: dark green to blue black fine powder

Odor and Taste: characteristics

Ingredients: The product is a natural extract of silkworm feces or mulberry leaf, 100% natural, no additive.

Parameters

Specifications

Solubility	Soluble in water, slightly soluble in ethanol, chloroform
Content of total Copper chlorophyllins	≥ 95%
Total Copper	4.0%~6.0%
Absorptance	Maximum in aqueous phosphate buffer at pH 7,5 at ca. 405 nm and at 630 nm.
pH Value	9.5~11
Loss on Drying	≤ 5%
Ash	≤ 5%
Residual Solvent	≤ 20ppm
Total Heavy Metals	≤ 10ppm
Pb	≤ 2.0 ppm
As	≤ 1.0 ppm
Hg	≤ 0.1 ppm
Cn	≤ 1.0 ppm

Microbiology

Total Plate Count	10,000cfu/g max.
Yeast&Mould	1000cfu/g max.
E coli	Negative(Negative/25g)
Salmonella	Negative(Negative/25g)

Kosher Certificated by KOF-K Kosher (USA)

GMO Statement The product and the raw material used to produce the product are free from GMO

Labeling

Our labeling system ensures that both inner and outer packaging carries a standardized label incorporating all necessary information to meet all standard customs and purchase requirements. Customer-specific data can further be incorporated on individual request.

Package 500g, 1kg Aluminum foil bag or 25kg per fiber drum.

Storage Store in full sealed containers in a cool dry place protected from light & heat

Shelf Life Best before 24 months under the specific storage condition

Caution Avoid contact with skin and eyes.

RD Health Ingredients Co., Ltd

Team Leader of QC

Prepare Date: Sept 15th, 2015