



Technical Data Sheet

Natrium Kupfer Chlorophyllin E141 (ii) (15760) Sodium Copper Chlorophyllin E141 (ii) (15760)

PRODUCT INFORMATION

Name	Copper complexes of chlorophylls, chlorophyllins, E141 (ii)
Source Used	1) Alfalfa (Medicago sativa L.) ; 2) Tall fescue (Festuca arundinacea)
Process Used	Extraction, spray drying
Extraction solvent	Acetone/ Water
E-Number	E 141 (ii)

ITEM	SPECIFICATION	METHOD
Appearance*	Dark green to black powder	Visual (CQ-MO-148)
Odor & Taste	Neutral, Characteristic	Sensory (CQ-MO-148)
Bulk density	0,28-0,48 g/ml	Graduated cylinder (CQ-MO-257)
pH	9,0-10,7	pH meter (CQ-MO-123)-1% in dist.
Residue on drying	≥ 95%	I.R. balance (CQ-MO-018)
Solubility	Water soluble	Visual (CQ-MO-148)
Iron	≤ 5,000mg/kg	
Sodium copper chlorophyllin	≥ 95%	Spectrophotometer (CQ-MO-172)
Copper	≤ 8,0%	ICP (CQ-MO-249)
Specific Extinction	≥ 540 E1/1 %	Spectrophotometer (MO-172)-405nm-pH 7.5
Shade (ratio of absorbances)	3,2-4,1	Spectrophotometer- 405nm/626nm
Ionic copper	≤ 200mg/kg	USP
Dichloromethan	≤ 10mg/kg	GC (CQ-MO-168)
Tin	≤ 5mg/kg	ICP (CQ-MO-249)
Zinc	≤ 25mg/kg	ICP (CQ-MO-249)
Arsenic	≤ 3,0 mg/kg	ICP (CQ-MO-247)
Cadmium	≤ 1,0 mg/kg	ICP (CQ-MO-247)
Mercury	≤ 1,0 mg/kg	ICP (CQ-MO-247)
Lead	≤ 5,0mg/kg	ICP (CQ-MO-247)
Residual solvent	≤ 50mg/kg	GC (CQ-MO-168)-permitted extr.
Heavy metals	≤ 40mg/kg	ICP (CQ-MO-247)

*The color may vary

STATEMENTS

Food Quality and Safety	According to Reg. (EC) 178/2002
Hygiene of foodstuffs	In compliance with Reg. (EC) 852/2004
Hazard	Not dangerous in accordance with EU regulation (EC) No 1272/2008
Contaminants	According to Reg. (EC) 2023/915 for food supplements
Preservative	Preservative Free
Residual Solvents	According to Dir. (EC) 2009/32 and amendments
Pesticides	According to Reg. (EC) 396/2005 and amendments
Microbiology	Bacterial Count: TAMC-Bacteria: <1,000 cfu/g, TYMC: <100 cfu/g, Salmonella: negative/25g, E. Coli: negative/g, S. Aureus: negative/g
GMO	GMO Free According to Reg. (EC) 1829/2003 and 1830/2003 and amendments
ETO	ETO free
Vegan	Conform
Irradiation	No ionization or other radiation is permitted According to Reg. (EC) 1999/2 and 1999/3 and amendments
BSE/TSE	Risk Free BSE/TSE
Allergen status	No allergens requiring labeling according to Reg. (EC) 1169/2011
Unintentional contact (traces) in the supply chain cannot be excluded.	
Nanomaterials	Absent According to Reg. (EC) 1169/2011
Titanium dioxide	Absent According to Reg. (EC) 2022/63
Packaging	According to Reg. (EC) 1935/2004 and 10/2011 and amendments

STORAGE AND HANDLING

Storage	Dry, preferably full, hermetically sealed, with ambient temperature (10-30°C), protected against light
Shelf Life	2 years if sealed and properly stored
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All above information according to the manufacturer / supplier

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