

PRODUCT SPECIFICATION

INCI/Botanical Name	MEDICAGO SATIVA	Common Name	Alfalfa ('Na' Copper Chlorophyllin) Extract
Parts of Plant	Leaf	Reference Standard	USP 42
Extraction solvent	Water & Ethanol	Extraction Ratio	----
Color Shade	Dark Green	Color Code	----
Batch Size	2000kg	Expiry	July- 2027
Origin	India/China	CAS No	19130-96-2.
HSN Code	67021090	Application & Uses: Food/Pharmaceuticals/Cosmetology	

TEST	SPECIFICATION	RESULT
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A. Physical Parameters:

Appearance	Fine powder	Visual
Color	Dark Green	Organoleptic
Odor	Characteristic	Organoleptic
Taste	Characteristic	Organoleptic
Absorptance E (1%/1cm) 405nm	NLT 568 min	568.5
Loss On Drying (at 105°C for 2 hours)	NMT 5.0 %w/w	3.74%
Sulphate ash	NMT 30 %	28.25%
pH	9.5 – 10.7	10.5
Total Copper	4 – 8 %	4.8%
Free Copper	NMT 0.025%	0.014%

B. Active Ingredients:

Chlorophyll	NLT 100 % w/w	HPLC
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C. Heavy Metals

Lead (PB)	NMT 5 mg/kg	Conforms
Arsenic (AS)	NMT 2 mg/kg	Conforms
Cadmium (CD)	NMT 1 mg/kg	Conforms
Mercury (HG)	NMT 1 mg/kg	Conforms

D. Microbiological Test

Total Aerobic Count	NMT 1000 cfu/g	Conforms
Yeast & Mold Mount	NMT 100 cfu/g	Conforms

E. Pathogen:

Escherichia Coli	Negative	Conforms
Salmonella	Negative	Conforms

F. Mycotoxin:

Aflatoxin	Negative	Conforms
Pesticide Residue	Negative	Conforms

G. Other:

Standard Packing: 25 Kg in single HDPE Container.
 The material is free from Allergens / GMO/ BSE - TSE.
 The material is not tested on animals.
 The material is non-irradiated & not treated with ETO.
 The above material complies with in-house specifications.
 Store in a cool and dry place away from sunlight and heat. The preferred storage is below 30°C.
THE PRODUCT IS OF HERBAL ORIGIN. THERE MAY BE MINOR COLOR DIFFERENCE DUE TO GEOGRAPHICAL AND SEASONAL VARIATION OF THE PLANT MATERIAL

Analysis by

Approved by



ISO 9001:2015, 14001:2015, 45001:2018, 22000:2018, HALAL, GMP, HACCP, KOSHER, FSSC 2000 ORGANIC, FSSAI & SHEFEXIL Certified.

PRODUCT SPECIFICATION

INCI/Botanical Name	<i>MEDICAGO SATIVA</i>	Common Name	Alfalfa extract ('Na' Copper Chlorophyllin)
Parts of Plant	Chlorophyll	Reference Standard	---
Extraction solvent	---	Extraction Ratio	3.2 - 4.0
Color Shade	Dark Green To Blue Black	Color Code	---
Batch Size	---	Expiry	July- 2027
Origin	India/China	CAS No	84082-36-0
HSN Code	----	Application & Uses: Food/Pharmaceutical/Cosmetology	

TEST	SPECIFICATION	RESULT
A. Physical Parameters:		
Appearance	Liquid	Visual
Color	Dark Green to blue black paste	Organoleptic
Odor	Characteristic	Organoleptic
Taste	Characteristic	Organoleptic
Absorptance E(1%/1cm) 405nm	NLT 96.05%	101.40%
Absorptance E(1%/1cm) 630nm	NLT 24.65%	30.40%
Loss On Drying (at 105°C for 2 hours)	NMT 4.0 %w/w	0.305%
Total Copper Content	NMT 8 %	1.00%
Free Copper Content	NMT 200 mg/kg	145mg/kg
B. Active Ingredients:		
Chlorophyll	NLT 17 % w/w	HPLC
C. Heavy Metals		
Lead (PB)	NMT 5 mg/kg	NMT 0.5 mg/kg
Arsenic (AS)	NMT 2 mg/kg	NMT 0.2 mg/kg
D. Other:		
Standard Packing: 25 Kg in single HDPE Container.		
The material is free from Allergens / GMO/ BSE - TSE.		
The material is not tested on animals.		
The material is non-irradiated & not treated with ETO.		
The above material complies with in-house specifications.		
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