

PRODUCT SPECIFICATION

INCI/Botanical Name	<i>TAGETES ERECTA L.</i>	Common Name	Marigold (Lutein) Extract – CWS Powder
Parts of Plant	Flower	Reference Standard	---
Extraction solvent	---	Carrier	---
Color Shade	Orange Or Orange Red	Color Code	---
Batch Size	800kg	Expiry	July- 2027
Origin	India/China	CAS No	90131-43-4.
HSN Code	32030090	Application & Uses: Food/Pharmaceutical/Cosmetology	
TEST		SPECIFICATION	METHOD
A. Physical Parameters:			
Appearance	Free flowing powder		Visual
Color	Orange Or Yellow Red		Organoleptic
Odor	Characteristics		Organoleptic
Taste	Characteristics		Organoleptic
Loss On Drying	NMT5.0%w/w		5g/105°C/2hrs
Particle Size (40mesh)	NMT95%w/w		Screen
B. Active Ingredients:			
Total carotenoids	NLT10%w/w		UV
Lutein	NLT 5%w/w		HPLC
C. Heavy Metals			
Lead (PB)	NMT 0.5 mg/kg		ICP MS
Arsenic (AS)	NMT 1.5 mg/kg		ICP MS
Cadmium (CD)	NMT 0.5 mg/kg		ICP MS
Mercury (Hg)	NMT 0.1 mg/kg		ICP MS
D. Microbiological Test:			
Total Plate Count	NMT 1000 cfu/g		Plate Counting
Total Yeast & Mold Count	NMT 100 cfu/g		Plate Counting
Coli- Group	NMT 3.0 MNP/g		Counting MPN Method
E. 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>TAGETES ERECTA</i>	Common Name	Marigold (Lutein) Extract
Parts of Plant	Flower	Reference Standard	---
Extraction solvent	---	Carrier	---
Color Shade	Orange -Yellow	Color Code	---
Batch Size	1200kg	Expiry	July- 2027
Origin	India/China	Cas No	90131-43-4.
HSN Code	13021919	Application & Uses: Food/Pharmaceutical/Cosmetology	

TEST	SPECIFICATION	METHOD
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A. Physical Parameters:

Appearance	Free flowing powder	Visual
Color	Orange Yellow	Organoleptic
Odor	Characteristics	Organoleptic
Taste	Characteristics	Organoleptic
Loss On Drying	NMT6.0%w/w	5g/105°C/2hrs
Particle Size (80mesh)	NMT95%w/w	Screen
Residual On Ignition	NMT 1.0%	3g/505°C/4hrs

B. Active Ingredients:

Total carotenoids	NLT 20% w/w	UV
Lutein	NLT 20% w/w	HPLC
Zeaxanthin	NLT 2.2% w/w	HPLC

C. Heavy Metals

Lead (PB)	NMT 1.0 mg/kg	ICP-MS
Arsenic (AS)	NMT 1.0mg/kg	ICP-MS
Cadmium (CD)	NMT 1.0 mg/kg	ICP-MS
Mercury (Hg)	NMT 0.1 mg/kg	ICP-MS

D. Microbiological Test:

Total Plate Count	NMT 1000 cfu/g	Plate Counting
Total Yeast & Mold Count	NMT 100 cfu/g	Plate Counting
Coli- Group	NMT 3.0 MNP/g	Counting MPN Method

E. Other:

Standard Packing: 25 Kg in single HDPE Container.
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