

CERTIFICATE OF ANALYSIS

Product Name:	Marigold Extract	Manufacture Date:	Dec,14.2021
Latin Origin:	<i>Tagetes erecta</i> L.	Test Date:	Dec,17.2021
Part used:	Flower	Report Date:	Dec,22.2021
Quantity:	355KG	Batch No:	DNAXG211209

Analysis Items	Specifications	Results	Methods
Active Ingredients Tests			
Lutein (HPLC)	≥80.0%	80.1%	USP37<621>
Zeaxanthin (HPLC)	≥4.0%	4.11%	USP37<621>
Physical Tests			
Appearance	Orange-Red Powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Complies	Organoleptic
Particle size	95% pass 80mesh	Complies	USP37<786>
Loss on drying	≤5.0%	3.58%	USP37<921>
Ash content	≤5.0%	0.54%	USP37<281>
Chemical Tests			
Heavy Metals	≤10.0ppm	Complies	USP37<231>
As	≤1.0ppm	Complies	USP37<211>
Pb	≤2.0ppm	Complies	USP37<251>
Cd	≤1.0ppm	Complies	USP37<232>
Hg	≤0.1ppm	Complies	USP37<261>
Solvent residue	≤1000ppm Ethanol	Complies	USP37<467>
Microbiological Tests			
Total Bacteria Count	≤1000cfu/g	60cfu/g	USP37<2021>
Yeast and Mold	≤100cfu/g	≤10cfu/g	USP37<2021>
E.Coli	Negative in 1g	Complies	USP37<2022>
Salmonella	Negative in 10g	Complies	USP37<2022>
Additional Tests			
PAEs (DBP+DEHP+DIP)	≤10ppm	Complies	GC-MS/MS
BHA/BHT/Ethoxyquin	Negative	Complies	HPLC-MS/MS
Aflatoxins:B1,B2,G1,G2	≤4.0ppb	Complies	IA C/S FB
Pesticides	≤0.1ppm	Complies	HPLC-MS/MS

* **Statements** : Non-Irradiated, GMO free, HALAL Certificated.

* **Conclusion**: Conform to above specification

* **Packaging**: 5kg per vacuum foil bag, 25kg per fiber drum.

* **Storage**: Store in origin packaging, preserve in hermetically sealed light & oxygen-resistant containers.

* **Shelf Life**: 2 years when properly stored.

Analyzed by: Li Meng

Approved by: YangHongmei



Xi'an Day Natural Inc.

ADD.: F501 Gazelle Valley, Pioneering R&D Park, No.69 Jinye Road, Xi'an High Tech Zone, 710077, China.

TEL: 86-29-88346077