

## CERTIFICATE OF ANALYSIS

Product Name	Marigold Extract	Latin Name	<i>Tagetes erecta L</i>
Batch No	PY-LU20190508	Used Part	Flower
Quantity	1000KG	Analysis Date	May.11,2019
Mfg. Date	May.08,2019	Exp. Date	May.07,2021

No.	Item	Specification	Result
1.	Appearance	Orange powder	Complies
2.	Odor & Taste	Characteristic	Complies
3.	Extract Solvent	N-hexane	Complies
4.	Assay (by HPLC)	Lutein $\geq$ 20.0%	20.31%
5.	Loss on Drying	$\leq$ 5.0%	3.51%
6.	Ash	$\leq$ 5.0%	1.31%
7.	Heavy Metals	$\leq$ 10ppm	<10ppm
8.	Pb	$\leq$ 3ppm	<3ppm
9.	As	$\leq$ 1ppm	<1ppm
10.	Cd	$\leq$ 1ppm	<1ppm
11.	Hg	$\leq$ 0.1ppm	<0.1ppm
12.	Solvent Residue	N-hexane $\leq$ 50ppm	<5ppm
13.	Total Plate Count	$\leq$ 1,000cfu/g	<1,000cfu/g
14.	Yeasts & Molds	$\leq$ 100cfu/g	<100cfu/g
15.	E.Coli	Negative	Negative
16.	Salmonella	Negative	Negative

Stored with room temperature and without sunlight, frozen will be better. After opening, please use it immediately, if not please pack it in vaccum.

Conclusion: Conform with the specification.

Analyst: xuli

QC: lixiaochen