



Xi'an Green Spring Technology Co.,Ltd

Certificate of Analysis

Product Name	Marigold Extract		
Botanical Name	<i>Tagetes erecta</i> L.		
Batch Number	20220912	Manufacture Date	20220912
Used part	Flower		
Report Date	20220912	Expiry Date	20240911

Item of Analysis	Specification	Results	Test Methods
Assay Lutein (HPLC)	5%	5.8%	HPLC
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	Orange Powder	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Physical Characteristics			
Particle Size	100% pass 80 mesh	80MESH	CP2010
Loss on drying	5%NMT (%)	3.18%	USP<731>
Total ash	5%NMT (%)	1.05%	USP<561>
Bulk Density	45-60g/100mL	51g/100mL	CP2010IA
Heavy Metals			
Total Heavy Metals	10ppm Max	Conform	GB5009.74
Lead (Pb)	2ppm NMT	Conform	BS FN ISO 17294-2 2016
Arsenic (As)	2ppm NMT	Conform	BS EN ISO 17294 2 2016
Cadmium (Cd)	1ppm NMT	Conform	BS EN ISO 17294-2 2016
Mercury (Hg)	0.1 ppm NMT	Conform	BS EN 13806:2002
Microbiological			
Total Plate Count	3000cfu/g Max	Conform	ISO 4833-1:2013
Yeast & Mold	300cfu/g Max	Conform	ISO 21527:2008
E. Coli.	Negative	Conform	ISO 7251:2005
Salmonella	Negative	Conform	ISO 6579-1:2017
Staphylococcus	Negative	Conform	ISO 6579-1:2017

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if stored under the conditions above and stay in original packing.

Quality Assurance: Liang Yan

