



西安绿泉科技有限公司

Xi'an Green Spring Technology Co., Ltd

Certificate of Analysis

Product Name	Lutein (Marigold Extract)		
Latin Name	<i>Tagetes erecta</i> L.	Part Used	Flower
Batch No.	190520	Manufacture Date	May.20, 2019
Quantity	500KG	Analysis Date	May 28, 2019
ITEMS	METHODS	SPECIFICATIONS	RESULTS
Appearance	Visual	Orange-red fine powder	Complies
Odor	Organoleptic	Characteristic	Complies
Taste	Organoleptic	Characteristic	Complies
Lutein content (By HPLC)	HPLC	$\geq 5.00\%$	5.31%
Loss on drying	3h/105°C	$\leq 5.0\%$	3.08%
Granular size	80 mesh sieve	100% Through 80 mesh sieve	Complies
Residue on Ignition	5h/750°C	$\leq 5.0\%$	0.52%
Heavy metals	Colorimetry	$\leq 10\text{ppm}$	Complies
As	AAS	$\leq 2\text{ppm}$	Complies
Pb	AAS	$\leq 1\text{ppm}$	Complies
Cd	AAS	$\leq 1\text{ppm}$	Complies
Hg	AAS	$\leq 0.1\text{ppm}$	Complies
Microbiological control			
Total plate count	CP2010	$\leq 1000\text{cfu/g}$	Complies
Yeast & mold	CP2010	$\leq 100\text{cfu/g}$	Complies
Escherichia coli	CP2010	Negative	Complies
Salmonella	CP2010	Negative	Complies
Storage:	Store in cool & dry place, keep away from strong light and heat		
Shelf life:	24 months when properly stored		

