

SHAANXI YOUGU BIOTECHNOLOGY CO., LTD

CERTIFICATE OF ANALYSIS

Product Name: Curcumin 95.0% USP	Date Test: April.26,2019	Mfg Date: April.25,2019
Botanical Name: <i>Curcuma longa L.</i>	Plant part: Root	Exp. date: April.24,2021
Batch No.: 19042501	Weight: 450 kg	Origin: China

Ingredients statement: 100% Curcuminoids

Items	SPECIFICATIONS	Results	METHOD/STANDARD
Appearance	Orange yellow fine powder	Qualified	Organoleptic
Odor	Litter bitter	Qualified	Organoleptic
Taste	Astringent	Qualified	Organoleptic
Mesh	80	100% pass 80 mesh	CP2010, Part 2
Extract solvent	95% Ethyl acetate	Qualified	--
Loss on drying	≤2.0%	0.70%	CP2010
Ash	≤1.0%	0.49%	CP2010
Compacted density	0.5-0.8 g/ml	0.63 g/ml	CP2010
Loose bulk density	0.3-0.5 g/ml	0.44g/ml	CP2010
Identification:		Positive (+)	By HPLC/TLC/IR
Assay	Total Curcuminoids ≥95.0%	95.4%	HPLC
	Curcumin	72.8%	HPLC
	Desmethoxy Curcumin	17.5%	HPLC
	Bisdemethoxy Curcumin	5.1%	HPLC
Heavy Metals	≤10ppm	Qualified	USP
Pb	≤1ppm	Qualified	USP
As	≤2ppm	Qualified	USP
Hg	≤0.1ppm	Qualified	USP
Cd	≤0.1ppm	Qualified	USP
Solvent residue	--	CPMP/ICH/283	--
Pesticide residue	Conform to EU regulation	Qualified	--
Microbiological			
Total Plate Count	1000cfu/g Max	<100cfu/g	AOAC990.12,16 th
Yeast& Mold	100cfu/g Max	<60cfu/g	AOAC996.08, 991.14
E.Coli colonies/g	Negative (-)	Negative	AOAC2001.05
Samonella colonies/25g	Negative (-)/25g	Negative/25g	AOAC990.12
General Status			
GMO Free	None	Qualified	--
Non-Irradiation	None	Qualified	--

Conclusion: Confirm to USP

Packing: Packed in paper-drums and two plastic-bags inside N.W: 25kgs. I.D. 35 x H51cm

Storage: Cool& dry place. Do not freeze. Keep away from strong light and heat

Shelf life: 2 Years under the conditions above and in its original packaging.

QC MANAGER: Jianyuan Cai

APPROVER: Huiqing Jiao

ANALYST: Yanping Xiao