西安天丰生物科技股份有限公司
Xi'an Natural Field Bio-Technique Co., Ltd

CERTIFICATE OF ANALYSIS

Product Name:	Silymarin		
Latin Name:	*Silybum marianum (L.) Gaertn*		
Plant Part:	Seed	Manu Date:	Oct. 20, 2019
Batch Number:	NF-20191020	Expiration Date:	Oct. 19, 2021
Quantity:	500kg	Report Date:	Oct. 25, 2019
Storage Condition:	Store in a well-closed and dry place with constant room temperature and Non-direct sunlight		

Item	**Standard**	**Test Result**
Assay		
Silymarin	≥80%(UV)	82.50%
Silymarin	USP(HPLC)	45.85%
Sum of silycristin and silydianin	USP(HPLC)	13.37%
Sum of silybin A and silybin B	USP(HPLC)	26.89%
Sum of isosilybin A and isosilybin	USP(HPLC)	5.59%
Organoleptic		
Appearance	Fine Powder	Conforms
Color	Yellow to Yellowish-Brown	Conforms
Odor	Slight	Conforms
Taste	Characteristic	Conforms
Physical Characteristics		
Particle Size	NLT100%Through 80 mesh	Conforms
Loss on Drying	≤5.0%	2.60%
Ash Content	≤0.5%	0.23%
Identification	HPLC	Conforms
Solubility		
In Water	Practically Insoluble	Conforms
In Methanol and Acetone	Soluble	Conforms
Heavy metals		
Total Heavy Metals	≤20.0ppm	Conforms
Lead(Pb)	≤3.0ppm	0.025ppm
Arsenic(As)	≤1.0ppm	0.075ppm
Mercury(Hg)	≤0.1ppm	0.001ppm
Cadmium(Cd)	≤0.2ppm	0.001ppm
Residual Solvents		
N-hexane	≤290ppm	2.68ppm
Acetone	≤5000ppm	1873.52ppm
Ethanol	≤5000ppm	90.29ppm
Pesticide Residues	USP<561>	Conforms
Microbiological Tests		
Total plate Count	≤1000cfu/g	Conforms
Yeast & Mold	≤100cfu/g	Conforms
E.Coli.	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus	Negative	Conforms
Conclusion	Conforms to the In-house standard	
Tested by:	Lijun Dou	Approved by: Jicheng Niu

Natural Field Bio-technique Co.,Ltd Inspection

地址：西安市高新区科技三路57号融城云谷B座5层
Add: 5th Floor, Building B, No.57,Keji 3rd Road,High-Tech Zone,Xi'an,710075,China