HANGZHOU THINK CHEMICAL CO., LTD. ADD: ROOM 501-502, TOWER E, YUANJIAN BUILDING, YUANYANG INTERNATIONAL CENTER, HANGZHOU-310011, CHINA

Certificate of Analysis

Product Name:	Silymarin/Milk Thistle P.E	Executive Standard:	USP 40
Botanical latin Name:	Silybum marianum(L)	Batch No:	20190618
Package:	25Kg/ Drums	Manufacturing Date:	24/06/2019
Plant Part:	Fruit	Expiry Date:	23/06/2022
Quantity:	1000KG	Report Date:	29/06/2019

No.	Test items	Specification and Standards	Results		
1.	Appearance	Amorphous Powder	Conforms		
2.	Colour	Yellowish-Brown	Conforms		
3.	Odour	Slight, Specific	Conforms		
4.	Solubility				
	- in Water	Practically Insoluble	Conforms		
	- in Methanol and Acetone	Soluble	Conforms		
5.	Identification				
	- TLC	To Comply with The Test	Conforms		
	- HPLC	To Comply with The Test	Conforms		
6.	Sulphated Ash	NMT1.0%	Conforms		
7.	Heavy metals	NMT 20 PPM	Conforms		
8.	Loss On Drying (2 Hours ,105 °C)	NMT 5.0%	1.90%		
9.	Powder size	80Mesh, NLT90%	Conforms		
	Assay of Total Silymarin by UV	Min 80%	80.85%		
10.	Assay of Total Silymarin (HPLC, determined as silybin, per cent)	-	45.76%		
	NLT 90.0% and NMT 110.0% of the labeled amount of silymarin.	90%~110%	100.03%		
	Sum of silycrstin A and silydianin (HPLC,percent of the total content of silymarin)	20.0%~ 45.0%	28.70%		
	Sum of silybin A and silybin B (HPLC,percent of the total content of silymarin)	40.0%~65.0%	57.88%		
	-Sum of isosilybin A and isosilybin B (HPLC,percent of the total content of silymarin)	10.0%~20.0%	13.42%		
11.	Residual Solvents (Extract Solvent-Acetone)				
	- Acetone	NMT 5000 PPM	Conforms		
	- N-Hexane	NMT 290 PPM	Conforms		
	-Ethanol-Ethyl Acetate-Methanol	Negative	Conforms		
12.	Residual Agrichemicals				
	- Total BHC (Sum of α,β,γandδ-BHC)	NMT 0.02 PPM	Conforms		
	- Total DDT (Sum of p,p'-DDD,P,P'-DDE,o,p'-DDT andp,p'-DDT)	NMT 0.05 PPM	Conforms		
	- Aldrin	NMT 0.03 PPM	Conforms		
		NMT 0.01 PPM	Conforms		
	- Endrin				
1.2	- Dieldrin	NMT 0.01 PPM	Conforms		
13.	Microbiological Quality (Total viable aerobic count)				
	- bacteria, not more than	10^4 cfu/g	20 cfu/g		
	- moulds and yeasts, enterobacterial not more than	10 ³ cfu/g	0 cfu/g		
	-Salmonella species and Escherichia coli.	Absence	Conforms		
14.	Storage: Preserve in tight, light-resistant containers, in a cool place.				
15.	Result: PASS				

TEL: +86-571-81956191 FAX: +86-571-81956190 E-MAIL:INFO@THINKCHEM.COM