

CERTIFICATE OF ANALYSIS

Product Name: Silybin (Milk Thistle P.E.) **Latin Name: Silybum marianum (L.) Gaertn**
Lot No.: 180427 **Quantity: 500kgs** **Packing: 25kg Cardboard Drum**
Extraction Solvent: Ethanol **Manu. Date: 04/27/2018** **Expiry Date: 04/26/2021**

No.	Test items	Specification and Standards	Results
1.	Appearance	Amorphous Powder	Conforms
2.	Colour	Similar to White	Conforms
3.	Odour	Slight, Specific	Conforms
4.	Solubility		
	- in Water	Practically Insoluble	Conforms
	- in Methanol and Acetone	Soluble	Conforms
5.	Identification	HPLC	Conforms
6.	Sulphated Ash	NMT 0.5%	0.1%
7.	Heavy metals	NMT 10 PPM	Conforms
	- Lead	NMT 0.5 PPM	Conforms
	- Cadmium	NMT 1.5 PPM	Conforms
	- Mercury	NMT 0.1 PPM	Conforms
	- Arsenic	NMT 3.0 PPM	Conforms
8.	Loss On Drying (2 Hours 105 °C)	NMT 5.0%	3.0%
9.	Powder size		
	Mesh 80	NLT90%	Conforms
10.	Assay of Silymarin (UV test, per cent, Standard in House)	Min. 85%	Conforms
11.	Assay of Silymarin (test by HPLC)	USP	95.51%
	- sum of silycristin and silydianin (test by HPLC)	USP	0%
	- sum of silybin A and silybin B (test by HPLC)	USP	95.35%
	- sum of isosilybin A and isosilybin B(test by HPLC)	USP	0.16%
12.	Residual Solvents		
	- N-hexane	NMT 290 PPM	0.89PPM
	- Methanol	NMT 3000 PPM	0PPM
	- Acetone	NMT 5000 PPM	1.56PPM
	- Ethyl Acetate	NMT 5000 PPM	0PPM
	- Ethanol	NMT 5000 PPM	3918PPM
13.	Pesticide Residues	USP<561>	Conforms
14.	Microbiological Quality (Total viable aerobic count)		
	- Bacteria, CFU/g, not more than	10 ³	Conforms
	- Moulds and yeasts, CFU/g, not more than	10 ²	Conforms
	- E.coli, Salmonella, S. aureus, CFU/g	Absence	Does not Contain

Storage: In Tight, Light-resistant and Dry Place. Avoid Direct Sunshine. *Country of Origin: China*

Analyst: Xu Wenjia
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