

CERTIFICATE OF ANALYSIS

Products Name:	Silymarin (Milk Thistle P.E.)	Manufacture Date	2024/04/16
Latin Name	Silybum marianum (L.) Gaertn	Batch Quantity	1000KG
Part used	Fruit	Expiration Date	2027/04/15
Batch Number	YOUTH20240416	Extract Solvent:	Acetone
No.	Test items	Specification and Standards	Results
1.	Appearance	Amorphous Powder	Conforms
2.	Colour	Yellow to Yellowish-Brown	Conforms
3.	Odour	Slight, Specific	Conforms
4.	Solubility		
	- in Water	Practically Insoluble	Conforms
	- in Methanol and Acetone	Soluble	Conforms
5.	Sulphated Ash	NMT 0.5%	Conforms
6.	Heavy metals	NMT 20 PPM	Conforms
7.	Loss On Drying (2 Hours 105 °C)	NMT 5.0%	4.0%
8.	Powder size		
	Mesh 80	NLT 90%	Conforms
9.	Assay of Silymarin (Tested by UV - Calculated on the dried base)	NLT 80%	87.8%
	Assay of Silymarin (Tested by HPLC - Calculated on the dried base)	NLT 45%	46.3%
	-Silybin A.B.		27.5%
	-Isosilybin A.B.		5.5%
	-Silydianin&Silychristin		13.3%
10.	Residual Solvents		
	- N-hexane	NMT 290 PPM	Conforms
	- Methanol	NMT 3000 PPM	Conforms
	-Acetone	NMT 5000 PPM	Conforms
	- Ethyl Acetate	NMT 5000 PPM	Conforms
	- Ethanol	NMT 5000 PPM	Conforms
11.	Microbiological Quality (Total viable aerobic count)		
	- Total bacterial count	NMT 1,000.0 CFU/g	Conforms
	- Moulds & Yeasts	NMT 100.0 CFU/g	Conforms
	- Escherichia coli	Not detected	Conforms

12.	Guarantee of Non-Irradiation -----	Qualified
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Storage: In Tight, Light-resistant and Dry Place. Avoid Direct Sunshine.

Country of Origin: China

QC MANAGER: Feng Li

ANALYST: Guo Shan

