



Wuhan Vanz Pharm Inc.

CERTIFICATE OF ANALYSIS

Product Name: Silymarine (Milk Thistle P.E.)

Latin Name: Silybum marianum (L.) Gaertn

Extraction Solvent: Acetone Plant Part to be Used: Seeds

Packing: 25kg cardboard Drum

Lot No.: VZ2018072801

Quantity: 1000kgs

Manu. Date: 07/28/2018

Expiry Date: 07/27/2021

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 10 PPM	Conforms
7.	Loss On Drying (2 Hours 105 °C)	NMT 5.0%	3.9%
8.	Powder size	NLT 95% pass 80 mesh	Conforms
9.	Assay of Silymarin (Tested by UV)	NLT 80%	82.5%
	Silymarin calculated as Silybin (Label content 50%)	90%-110%	102.0%
	Assay of Silymarin (HPLC, determined as silybin, per cent)	40%-80%	51.0%
	- sum of silychristin and silydianin (HPLC, per cent of the total content of silymarine)	20%-45%	28.8%
	- sum of silybin A and silybin B (HPLC, per cent of the total content of silymarine)	40%-65%	59.1%
	- sum of isosilybin A and isosilybin B (HPLC, per cent of the total content of silymarine)	10%-20%	12.1%
10.	Residual Solvents		
	- N-hexane	NMT 0.029%	Conforms
	- Acetone	NMT 0.5%	Conforms
	- Ethanol	NMT 0.5%	Conforms
	- Ethyl Acetate	NMT 0.5%	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
	- Salmonella species	Not detected	Conforms
12.	Guarantee of Non-Irradiation	----	Qualified

Conclusion: Confirm with USP40.

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

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