

Description:

MilkThistle 80%Silymarin Ethanol

Lot #:

326151103YC-ET

Standard
Result *

Physical Properties

Appearance	Yellow brown powder	Complies
Identification	Positive	Complies
Solvent Used	Ethanol	Ethanol
Carrier Used	None	None
Plant Part	Seed	Seed
Latin Name	Silybum marianum (L.) Gaertn	Silybum marianum (L.) Gaertn
Bulk Density Loose (gm/cc)	>= 0.3 <= 0.6	0.3
Bulk Density Tap (gm/cc)	>= 0.5 <= 0.8	0.6
Particle size thru # 80 (%)	>= 95	Complies

Analytical

Assay (Silymarin Dry Basis, %)	>= 80 <= 85	82
Loss on drying (%)	<= 5.0	2.7
ROI (%)	<= 1.0	0.1
Heavy metals (ppm)	<= 10	Complies
Lead (ppm)	<= 0.5	Complies
Arsenic (ppm)	<= 1	Complies
Cadmium (ppm)	<= 0.3	Complies
Mercury (ppm)	<= 0.1	Complies
Pesticides Residue	Conforms to USP <561>	Conforms
Residual Solvent Class 1	None detected	None detected
Res. Solvent Class 2, Hexane (ppm)	<= 290	8
Res. Solvent Class 2, Methanol (ppm)	<= 3000	0
Residual Solvent Class 3 (ppm)	<= 5000	1840

Microbiological

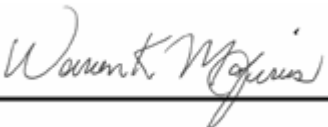
APC (CFU/gm)	<=	<1000
Yeast/mold (CFU/gm)	<=	1000
E. coli (CFU/gm)	Negative	Complies
Salmonella (25 gm)	Negative	Complies
Coliforms (CFU/gm)	<=	100
S. aureus (CFU/gm)	Negative	Complies

Storage Conditions

Manufacture date	Nov 22, 2015
Expiration date	Nov 22, 2017

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<u>Standard</u>	<u>Result</u> *
Storage	Cool dry place sealed in light resistant container
Manufactured by	Plant # 326
Country of origin	China
Revision #	Rev 7 05/21/2015

Approved By:  Date: 2/8/2017
Warren K. Majerus
VP Quality Assurance

* Test results based on information supplied by the manufacturer, unless otherwise noted.

** Based on third party testing lab results.

*** Based on results from Pharmore's sampling protocol.

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