

QUALITY SPECIFICATION

Milk Thistle Extract

Catalog No.: NST-8-35

CAS No.: 84604-20-6

Source: *Silybum marianum* L.

Part used: fruit

Shelf life: 24 months

No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Yellow	Visual
3.	Identification	Conforms	TLC
4.	Assay (Silybin & Isosilybin)	≥30.0 %	HPLC
5.	Assay (Silymarin)	≥80.0 %	UV
6.	Odor	Characteristic	Organoleptic
7.	Taste	Characteristic	Organoleptic
8.	Sulfated ash	≤5.0 %	Ph. Eur. 2.4.14
9.	Loss on drying	≤5.0 %	Ph. Eur. 2.8.17
10.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
11.	Bulk density	≤0.8 g/ml	Density meter
12.	Solvent residues	Ph. Eur. 2.4.24	Ph. Eur. 2.4.24
13.	Pesticide residues	EC 396/2005	Third lab
14.	Ethylene oxide	EC 396/2005	HACCP
15.	Benzo[a]pyrene	(EU) 2023/915	HPLC
16.	PAHs	(EU) 2023/915	HPLC

17.	Heavy Metals	≤ 10 ppm	ICP-MS
18.	Lead	≤ 2 ppm	ICP-MS
19.	Arsenic	≤ 1 ppm	ICP-MS
20.	Mercury	≤ 0.1 ppm	ICP-MS
21.	Cadmium	≤ 1 ppm	ICP-MS
22.	TPC	$< 10^3$ CFU/g	AOAC, BAM
23.	TYMC	$< 10^2$ CFU/g	AOAC, BAM
24.	<i>Escherichia Coli</i>	Absent	AOAC, BAM
25.	<i>Salmonella</i>	Absent	AOAC, BAM
26.	<i>Staphylococcus aureus</i>	Absent	AOAC, BAM

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored