

QUALITY SPECIFICATION

Milk Thistle Extract

Catalog No.: NST-8-35

Source: Silybum marianum L.

Part used: fruit

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 %	In house
9.	Loss on drying	≤5.0 %	In house
10.	Mesh size/sieve	NLT 95% pass 80 mesh	80 mesh
11.	Bulk density	NMT 0.8 g/ml	Density meter
12.	Pesticide residues	EC 396/2005	Third lab
13.	Benzo[a]pyrene	< 10 ppb	HPLC
14.	Sum of PAHs	< 50 ppb	HPLC
15.	Solvent residues	≤5000 ppm	GC
16.	Heavy Metals	≤10 ppm	ICP-MS

17.	Lead	≤ 2 ppm	ICP-MS
18.	Arsenic	≤ 1 ppm	ICP-MS
19.	Mercury	≤ 0.1 ppm	ICP-MS
20.	Cadmium	≤ 1 ppm	ICP-MS
21.	TPC	Not more than 10^3 CFU/g	ISO 6579:2002
22.	TYMC	Not more than 10^2 CFU/g	ISO 6579:2002
23.	<i>Escherichia Coli</i>	Absent	ISO 6579:2002
24.	<i>Salmonella</i>	Absent	ISO 6579:2002
25.	<i>Staphylococcus aureus</i>	Absent	ISO 6579:2002

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

Stability: 24 months when properly stored