

SPECIFICATION

Product name: Milk Thistle Extract				
Botanical Name	Silybum marianum (L.) Gaertn		Part	Seeds
Origin	China		CAS number	65666-07-1
Solvent Used	Acetone			
Item	Standard		Analysis Method	
Appearance	Yellow to Yellowish-Brown Powder		Visual	
Odor & Taste	Characteristic		Organoleptic	
Typical Analysis				
Identification	TLC		EP9.0	
Assay (Dried)	Silymarin	≥ 80%	UV	
	Silymarin	≥ 50%	HPLC	
	Silychristin and silydianin (calculated with reference to total silymarin)	20%-45%	HPLC	
	Silybin A + B (calculated with reference to total silymarin)	40%-65%	HPLC	
	Isosilybin A + B (calculated with reference to total silymarin)	10%-20%	HPLC	
Particle Size	90% Through 80 mesh		USP38<786>	
Loss on drying	≤ 5.0%		EP9.0(2.8.17)	
Sulphated Ash	≤ 0.5%		EP9.0(2.4.14)	
Residual Solvents	Acetone	≤ 5000ppm	EP9.0(5.4)	
	N-hexane	≤ 290ppm	EP9.0(5.4)	
	Ethanol	≤ 5000ppm	EP9.0(5.4)	
Benzo(a)pyrene	≤ 10µg/kg		(EU) 2015/1933	
PAH4	≤ 50µg/kg		(EU) 2015/1933	
Heavy Metals				
Heavy metals	≤ 10ppm		EP9.0(2.4.27)	
Arsenic (As)	≤ 1.0ppm		EP9.0(2.2.58)	
Lead (Pb)	≤ 3.0ppm		EP9.0(2.2.58)	
Cadmium (Cd)	≤ 1.0ppm		EP9.0(2.2.58)	
Mercury (Hg)	≤ 0.1ppm		EP9.0(2.2.58)	
Microorganism				
Total Plate Count	<1000cfu/g		EP9.0(2.2.58)	
Yeast and Mold	<100cfu/g		EP9.0(2.2.58)	
Escherichia Coli	Negative/10g		EP9.0(2.6.12)	
Salmonella	Negative /25g		EP9.0(2.6.12)	
Package	Packed In 25kgs/Drum			
Shelf life	3 Year When Properly Stored			
Storage	In Tight, Light-resistant and Dry Place. Avoid Direct Sunshine.			