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Arlington, Texas 76011
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Technical Data Sheet

Product and Batch Information			
Product Name:	SPI-Milk Thistle Extract	Latin Name:	Silybum marianum (L.)
Part Used:	Seed	Extract Solvent:	Acetone
Excipient Used:	None	Shelf Life:	2 years

Item	Specification	Test Method
Physical		
Appearance	Brown-Yellow Powder	Visual
Odor	Characteristic	Sensory
Taste	Characteristic	Sensory
Loss on Drying	≤5.0%	5g/105°C/2hrs
Insoluble ash	≤5.0%	2g/600°C/4hrs
Particle Size	100% pass 80 mesh	Sieve
Bulk Density	0.30 – 0.90 g/ml	CP2010
Identification	Positive Reaction	CP2010
Chemical Control		
Heavy Metals	≤10ppm	Atomic Absorption
Arsenic(As)	≤1ppm	Atomic Absorption
Lead(Pb)	≤3ppm	Atomic Absorption
Mercury(Hg)	≤0.5ppm	Atomic Absorption
Cadmium(Cd)	≤1ppm	Atomic Absorption
Aflatoxins	≤10.0ppb	CP2010
Treatment	No irradiation, No ETO, No Methyl Bromide	USP
N-hexane	≤290ppm	GC
Acetone	≤5000ppm	GC
Ethanol	≤3000ppm	GC
Assay		
Silymarin	≥80.0%	UV
Microbiological Control		
Total Plate Count	≤1000cfu/g	CP2010
Yeast & Mold	≤100cfu/g	CP2010
Enterobacteria Count	≤100cfu/g	CP2010
Coliform	Negative	CP2010
Salmonella	Negative	CP2010
Packing and Storage		
Packing	Pack in Paper-drums & two food grade bags inside 25 Kg/drum.	
Storage	Store in closed container away from moisture and sunlight.	
Shelf Life	2 years if sealed and stored properly	