

**Milk Thistle Extract Specification**

Product Name : Milk Thistle Extract  
 Origin Of Material : China  
 Lot No. : PC-SO240315  
 Extract Solvent : Ethanol  
 Packaging Size : 1 Kg

Botanical Name : *Silybum marianum*  
 Part Used : Seed  
 MFG. : 15/03/2022  
 EXP. : 15/03/2024  
 Packaging : Aluminium Foil Zip Lock Bag

| Analysis                      | Specification                       | Reference Method |
|-------------------------------|-------------------------------------|------------------|
| <b>Physical Test</b>          |                                     |                  |
| -Appearance                   | Yellow Brown Powder                 | Visual           |
| -Odor & Taste                 | Characteristic                      | Organoleptic     |
| -Particle Size                | 95% through 80 mesh                 | Screening        |
| -Solubility                   | Soluble In Hydro-Alcoholic Solution | Visual           |
| <b>Chemical Test</b>          |                                     |                  |
| -Assay (Silymarin)            | ≥ 80.000%                           | UV-VIS           |
| -Assay (Silymarin)            | ≥ 40.00%                            | HPLC             |
| -Assay (Silybin & Isosilybin) | ≥ 30.000%                           | HPLC             |
| -Moisture Content             | ≤ 5.000 %                           | 3g/105°C/2hrs    |
| <b>Heavy Metals</b>           |                                     |                  |
| Total Heavy Metals            | ≤ 10.00 ppm                         | ICP-MS           |
| -Arsenic (As)                 | ≤ 1.00 ppm                          | ICP-MS           |
| -Lead (Pb)                    | ≤ 1.00 ppm                          | ICP-MS           |
| -Cadmium (Cd)                 | ≤ 0.50 ppm                          | ICP-MS           |
| -Mercury (Hg)                 | ≤ 0.50 ppm                          | ICP-MS           |
| <b>Microbiological Test</b>   |                                     |                  |
| -Total Plate Count            | ≤ 10 <sup>3</sup> cfu/g             | AOAC 990.12      |
| -Total Yeast & Mold           | ≤ 10 <sup>2</sup> cfu/g             | AOAC 997.02      |
| -Escherichia coli             | Negative/10g                        | AOAC 991.14      |
| -Staphylococcus aureus        | Negative/10g                        | AOAC 2003.07     |
| -Salmonella                   | Negative/10g                        | AOAC 998.09      |

Conclusion : Conform with the specification.

Storage : In cool & dry place. Keep away from strong light and heat.

Shelf life : 2 years when properly stored.

( 15 / 03 / 2022 )

Quality Control

( 15 / 03 / 2022 )

Research & Development

