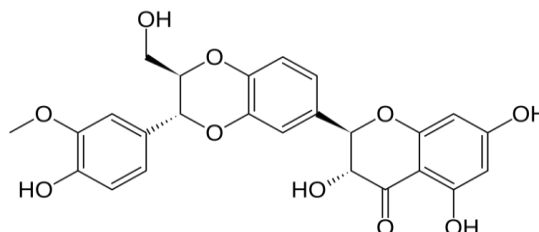


TECHNICAL DATA SHEET

Product name	: Silibinin	Sources	: Milk Thistle Extract
Synonyms	: Silybin; Silybum marianum; 2,3-Dihydro-3-(4-hydroxy-3-methoxyphenyl)-2-(hydroxymethyl)-6-(3,5,7-trihydroxy-4-oxobenzopyran-2-yl)benzodioxin;		
CAS No.	: 22888-70-6		
EINECS/ELINCS	: 245-302-5		
Molecular formula	: C ₂₅ H ₂₂ O ₁₀		
Molecular weight	: 482.44		



Description

Silibinin, also known as silybin, is the major active constituent of silymarin, a standardized extract of the milk thistle seeds, containing a mixture of flavonolignans consisting of silibinin, isosilibinin, silicristin, silidianin, and others. Silibinin itself is a mixture of two diastereomers, silybin A and silybin B, in approximately equimolar ratio.

Silibinin is available as drug in some EU countries and used in the treatment of toxic liver damage as adjunctive therapy in chronic hepatitis and cirrhosis. It stabilizes the liver cell membrane and prevents or avoids the loss of soluble cellular components, such as transaminases, limiting the penetration of certain hepatotoxic substances, such as alpha-aminosa, into the cell. By stimulating the nucleus of the activity of RNA polymerase I, protein synthesis ability is enhanced. It also helps ribosomal RNA synthesis in the liver cells, at the same time leading to structural and functional protein (enzyme) synthesis in large quantities. Therefore, Silibinin will improve the repair and regeneration of hepatocytes.

Specifications

Purities	90%	98%
Color	Off White	White
Form	Powder	
Loss on drying	≤ 5.0%	
Heavy metals	≤ 20ppm	
Lead	≤ 1ppm	
Cadmium	≤ 0.5ppm	
Arsenic	≤ 0.5ppm	
Mercury	≤ 0.5ppm	
Microbials		
Total Plate Count	NMT 1000 cfu/g	
Yeast and Mold	NMT 100 cfu/g	
Escherichia coli	Negative	
Salmonella	Negative	
Solubility (in vitro)	Soluble in methanol, ethyl acetate, very slightly soluble in water.	
Stability	Avoiding the high temperature; Hygroscopic.	
Density	1.5 ± 0.1 g/cm ³	
Flash Point	274.5 ± 26.4 ° C	

Allergement Statements

	Absent	Present
Milk and products thereof	X	
Eggs and products thereof	X	
Fish and products thereof	X	
Crustaceans and products thereof	X	
Tree nuts	X	
Wheat and products thereof	X	
Peanuts and products thereof	X	
Soybeans and products thereof	X	

Applications

Prevention and treatment of acute and chronic hepatitis, anti-aging, liver support.

Status

Non GMO product.
 Not Irradiated product.
 Gluten Free product.
 Animal Origin Free product.

Packaging

1kg per foil bag, 25kg per fiber drum.

Shelf life and Storage

24 months unopened stored in a cool and dry location.