



THE NATURAL  
**LIVER PROTECTOR  
& DETOXIFIER**

DETOXIFY AND SUPPORT HEALTHY LIVER FUNCTION

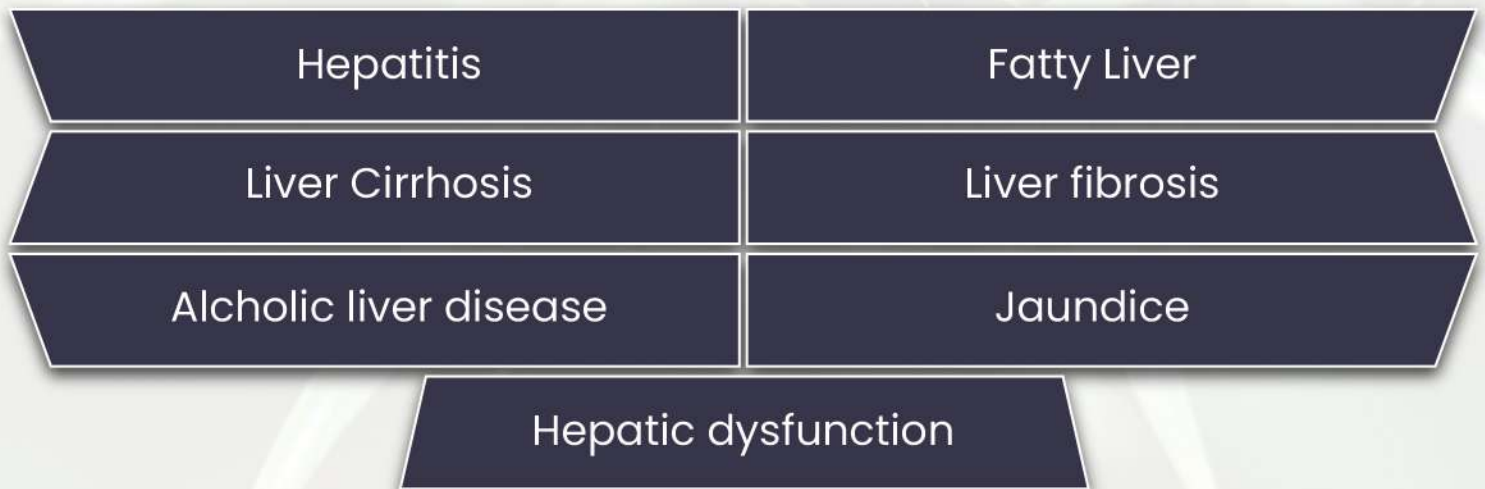
## PROPERTIES:

- Supports liver health.
- Natural treatment of liver diseases.
- Protects liver from toxic effects of antibiotics & anti-tuberculosis agents.
- Natural antioxidant for liver.

## DESCRIPTION:

Silyberg tablet & syrup contains milk thistle which is a potent inhibitor of inflammation, fibrosis and oxidative stress that is safe and has low risks of drug interactions. Silymarin may have a role in combination with antioxidants. Clinically, silymarin exerts its hepatoprotective effects through antioxidative, antifibrotic, anti-inflammatory, antitoxin, and anti-cancerous mechanisms of actions.

## INDICATIONS:



## BENIFITS:4

- Protects against all kind of liver diseases
- Enhances liver detoxification process.
- Improves liver function by correcting sluggish liver
- Relieves from hepatic and G.I distress.
- Accelerates the regeneration of liver cells.
- Helps ease inflammation and promotes cell repair
- Acts as antioxidant that protects the liver from the free radical damage
- Modulates enzymes associated with the development of cellular damage, fibrosis and cirrhosis.

## ROLE OF INGREDIENTS:

### SILYMARIN:

- Offers synergistic effects in protecting liver cells
- Stabilizes the membrane permeability by inhibiting lipid peroxidation.
- Prevents from liver glutathione depletion
- Provides anti-oxidant properties that prevent free radicals from damaging liver cells.
- Exhibits significant anti-inflammatory effect on hepatic tissue.

### HOW DOES SILYMARIN WORK?

Offers synergistic effects in protecting liver cells

Stabilizes the membrane permeability by inhibiting lipid peroxidation.

Prevents from liver glutathione depletion

Provides anti-oxidant properties that prevent free radicals from damaging liver cells.

Exhibits significant anti-inflammatory effect on hepatic tissue.

### VITAMIN E:

- Studies show that vitamin E might improve symptoms of nonalcoholic fatty liver disease.
- Vitamin E is a potent antioxidant that has been shown to reduce oxidative stress in Non-alcoholic fatty liver disease (NAFLD).
- Plays a vital role in maintaining a healthy liver.

### HOW DOES VITAMIN E WORK?

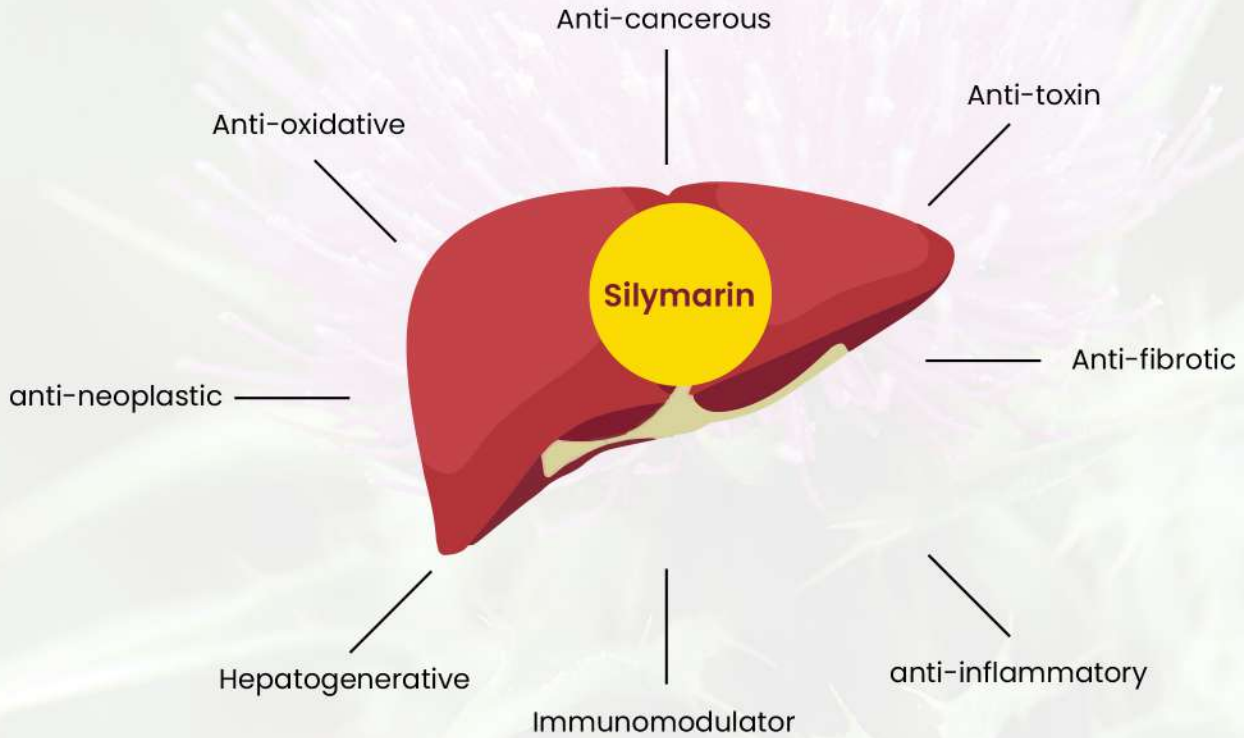
In addition to the role of being an antioxidant, some studies have also proposed that vitamin E improves the liver integrity by down-regulating hepatic cluster of differentiation 36 protein (CD36)—a membrane transporter responsible for the uptake of fatty acids into the liver.

### ROLE OF MILK THISTLE WITH VITAMIN E:2

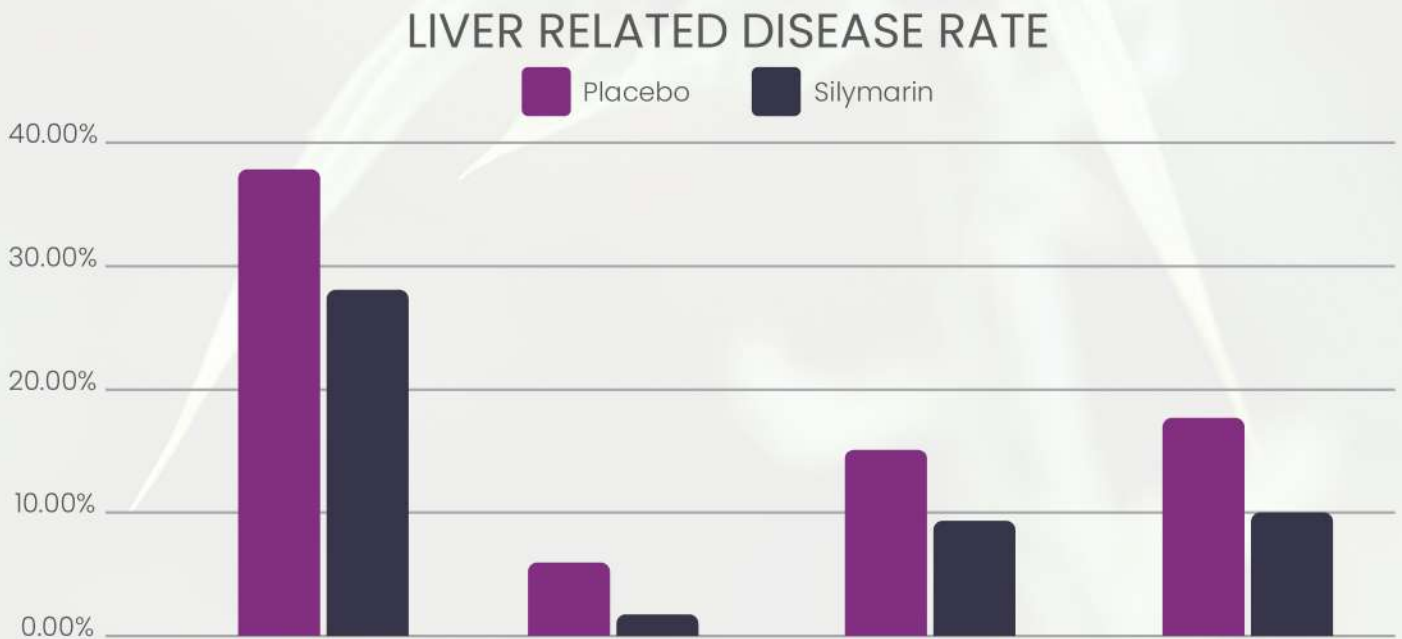
Early research suggests that taking a combination of the milk thistle and vitamin E by mouth twice daily for 12 months improves liver function tests in people with liver disease.

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## Hepatoprotective mechanism of action of silymarin:



## Comparison of liver related disease rate of silymarin with placebo:6



A review of clinical data with silymarin calculated the overall odds ratio for liver-related disease in the silymarin versus placebo groups. In this analysis, the pooled liver-related disease rate was 4.9% per year in patients receiving silymarin compared with 9.3% per year in patients receiving placebo.

## EFFECTS OF SILYMARIN ON LIVER:

### ANTI-OXIDATIVE EFFECT:

The antioxidant properties of silymarin arise from its ability to utilize scavengers, allowing for the elimination of free radicals

### ANTI-FIBROTIC EFFECT:

Silymarin down-regulates TGF- $\beta$ 1 mRNA, inhibits NF- $\kappa$ B, and prevents the stimulation of hepatic stellate cells.

### ANTI-INFLAMMATORY EFFECT:

The immunomodulatory activity of silymarin exerts an anti-inflammatory effect by preventing the activation of the inflammasomes, and NF- $\kappa$ B, which are important in regulating the immune response in inflammatory states.

### ANTI-TOXIN EFFECT:

The primary mechanisms by which silymarin protects against further damage is through the regulation of membrane permeability and the competitive inhibition of toxins at specific binding sites. This prevents the absorption of these harmful substances, particularly in the hepatic phalloidin-transporting system.

### ANTI-CANCER EFFECT:

Silymarin also demonstrates anticancer effects believed to be linked to the inhibition of oxidative stress, promotion of apoptosis, cell cycle arresting, and mitochondrial pathway inhibition.

# Silyberg<sup>®</sup> Tab & Syrup

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## COMPOSITION:

<b>SILYBERG TABLET:</b>	
Each Tablet Contains:	
Powdered Milk Thistle Extract (USP):.....	200 mg
Vitamin E (USP): .....	100 mg
	Milk Thistle
	Vitamin E

<b>SILYBERG SYRUP:</b>	
Each 5 ml contains:	
Silymarin Extract: .....	105 MG
	Milk Thistle Extract

Silyberg contains a highly concentrated & effective extract of milk thistle

A clinically proven natural compound for the treatment of hepatic diseases worldwide

Combination of silymarin with vitamin E enhances the antioxidant effect

Recommended for all ages

Available in both tablet & syrup forms

100% free of gluten & wheat, dairy & lactose, artificial flavors

## DOSAGE:

**For Tablet:**

1 tablet twice a day preferably with meal or as prescribed by the physician.

**For Syrup:**

**ADULTS:** 2 teaspoons twice daily or as directed by the physician.

**Children:** 1 teaspoon daily or as directed by the physician.

## PRESENTATION:

Available in 120 ml SYP Pack.

Available in 20's TAB Pack.

Reference

<https://www.google.com/www.xlohepublishing.com&source=images&cd=vfe&ved=0C>

[https://www.rxlist.com/milk\\_thistle/supplements.html](https://www.rxlist.com/milk_thistle/supplements.html)

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