

## Curcumin, 95% Curcuminoids

Curcumin, a yellow ingredient isolated from turmeric (*Curcuma longa*), has exhibited a variety of biological activities, including antioxidant actions within the liver. Curcumin can effectively inhibit the free-radical-induced lipid peroxidation and protein oxidative damage of liver mitochondria. In liver cancer cells, curcumin also has been shown to inhibit cell growth and to trigger apoptosis (programmed cell death). Curcumin is a powerful antioxidant that has also been proven to be extremely effective for treating gallstones and numerous other liver disorders. Curcumin can increase bile production up to 100%, helping to protect the liver from alcohol abuse, chemicals and other toxins.

## alpha-Lipoic Acid

alpha-Lipoic acid is a powerful antioxidant that offers remarkable aid to the liver. It can be used to detoxify—even to detoxify heavy metals—and for liver cirrhosis. alpha-Lipoic acid relieves stress on the liver and helps the body rid itself of harmful substances. Studies indicate that alpha-lipoic acid may be one of the most important antioxidants available. alpha-Lipoic acid may very well join the ranks of vitamins C and E as part of your first line of defense against free radicals. alpha-Lipoic acid is important for growth and helps to prevent cell damage.

## Schizandra, 9% Schisandrins

Our potent berry extract is standardized to the marker compound that accelerates the process of liver cell growth.

## Suggested Use

**Adults:** Take 1 capsule three times daily with food or as directed by your health-care practitioner. Use for a minimum of 3 weeks to see beneficial effects.

## References

- Dodd, S., et al. "N-Acetylcysteine for antioxidant therapy: pharmacology and clinical utility". *Expert Opinion on Biological Therapy* Vol. 8, No. 12 (2008): 1955–1962.
- Mehmetcik, G., et al. "Effect of pretreatment with artichoke extract on carbon tetrachloride-induced liver injury and oxidative stress". *Experimental and Toxicologic Pathology* Vol. 60, No. 6 (2008): 475–480.
- Selvakumar, E., et al. "Mitigation of oxidative stress in cyclophosphamide-challenged hepatic tissue by DL-alpha-lipoic acid". *Molecular and Cellular Biochemistry* Vol. 272, No. 1–2 (2005): 179–185.
- Abdel-Zaher, A., et al. "The potential protective role of alpha-lipoic acid against acetaminophen-induced hepatic and renal damage". *Toxicology* Vol. 243, No. 3 (2008): 261–270.
- Terneus, M., et al. "Comparison of S-adenosyl-L-methionine (SAME) and N-acetylcysteine (NAC) protective effects on hepatic damage when administered after acetaminophen overdose". *Toxicology* Vol. 244, No. 1 (2008): 25–34.
- Eminzade, S., F. Uraz, and F. Izzettin. "Silymarin protects liver against toxic effects of anti-tuberculosis drugs in experimental animals". *Nutrition & Metabolism* Vol. 5 (2008): 18.

## Ingredients

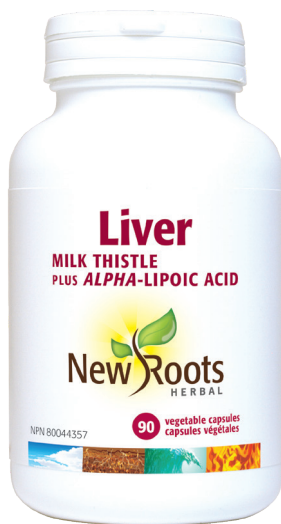
### Each capsule contains:

Milk thistle (*Silybum marianum*) seeds,  
80% silymarin ..... 250 mg  
Oriental radish (*Raphanus sativus* var. *niger*) roots.. 120 mg  
Beet (*Beta vulgaris*) root..... 120 mg  
Dandelion (*Taraxacum officinale*) root, 3% flavonoids. ... 50 mg  
Artichoke (*Cynara scolymus*) leaf, 5% cynarin..... 35 mg  
Turmeric (*Curcuma longa*) root extract,  
95% curcuminoids, providing curcumin I,  
demethoxycurcumin, and bisdemethoxycurcumin.... 50 mg  
DL-alpha-Lipoic acid. .... 50 mg  
Schizandra (*Schisandra chinensis*), 9% schisandrins.. 50 mg  
**Other ingredients:** Vegetable magnesium stearate, silicon dioxide, and maltodextrin\* in a non-GMO vegetable capsule composed of carbohydrate gum and purified water. \*Used in small amounts for the processing of an extract.

NPN 80044357 · V0050-R5

Ingredients in this product have been validated for potency and identity, and certified free of heavy metals, pesticides and solvent residues using:

- Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)
- HPLCs with Diode Arrays UV-VIS Detectors / Refractive Index Detectors
- Gas Chromatograph/Mass Spectrometer (GC/MS)
- UV/VIS Spectrophotometer
- Near-Infrared Spectroscopy (FT-NIR Spectrometer)
- Headspace Gas Chromatography (organic solvent residues)
- Disintegration



## Liver

Sold exclusively to finer health food stores  
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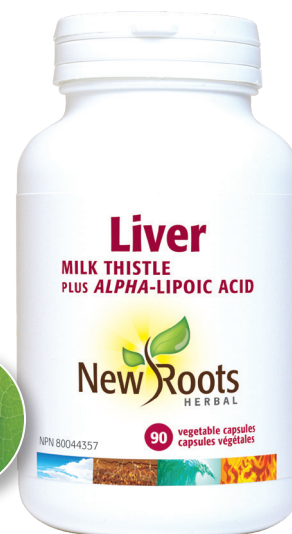
## Liver

Give your liver  
the lifeline it deserves



- Removes toxins beneath the connective tissue
- Helps you fight common liver-related ailments
- Perfect protection for smokers, alcohol drinkers, or those living/working in polluted areas

**ISO 17025**  
Accredited Laboratory



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## Your liver is more important than you think.

The liver is the body's main organ for detoxification. With the stress of modern living and the constant exposure to chemicals and denatured foods, keeping your liver healthy couldn't be more important to your good health. From fighting common liver ailments including gallstones, jaundice and hepatitis to battling health concerns like allergies, alcoholism, *Candida*, depression, headaches, PMS, menopause, and digestive problems, a healthy liver can be a powerful ally in maintaining your overall wellness.

The liver is the largest and most complex organ in the human body.

## Liver formula can help.

New Roots Herbal's **Liver** formula offers a well-rounded, rebuilding, cleansing and detoxifying regime. It offers the perfect protection for smokers and drinkers, and people who live or work in areas of high pollution.

**Liver** repairs and rebuilds to help increase your energy and stamina. This unique formula relieves stress and allergies, and powers your liver's ability to remove toxins beneath the connective tissue of your skin, giving you noticeably healthy, glowing skin, and protects the liver from the effects of smoking, alcohol, and environmental toxins, including polluted air & water in a living or working environment.

## Know what's best for your liver.

A natural approach to good liver function, New Roots Herbal's **Liver** formula is a unique combination of proven effective herbs. These include:

### Milk Thistle, 80% Silymarin

One of the most powerful liver detoxifiers and rebuilders is milk thistle. Milk thistle contains silymarin, which helps increase the liver's ability to detoxify a wide range of hormones, drugs and chemicals. Evidence exists that milk thistle is hepatoprotective through a number of mechanisms: antioxidant activity, toxin blockade at the membrane level, enhanced protein synthesis, antifibrotic activity, and possible anti-inflammatory or immunomodulating effects.

Silymarin also prevents liver damage and encourages the growth of new liver cells, replacing old damaged ones, making silymarin one of the most potent liver-protecting substances known. Silymarin is thought to be at least ten times more potent in antioxidant activity than vitamin E. Silymarin increases the glutathione (GSH) content of the liver by over 35% in healthy subjects, and increases considerably the level of the important antioxidant enzyme superoxide dismutase in cell cultures. Milk thistle is used for all liver disorders, including hepatitis, cirrhosis of the liver, poisoning, alcoholism and gallstones.

Many doctors recommend milk thistle extract for the prevention and/or treatment of various liver disorders including viral hepatitis, fatty liver associated with long-term alcohol use, and liver damage from drugs and industrial toxins such as carbon tetrachloride. Studies evaluating milk thistle for alcoholic liver disease found significant improvements in liver function. Those with the mildest form of the disease appeared to improve the most.

### Oriental Radish

Black radish is one the best herbs to use during active detoxifying of the liver and for gallbladder congestion. It is a must for anyone on a liver cleansing program.

### Beet

Beets are superb for detoxifying the liver, and are extremely valuable for liver and gallbladder problems. They are also one of the most valuable foods for women's health concerns that involve the liver, such as menopause and PMS. They are also known to be a wonderful blood tonic.

### Dandelion, 3% Flavonoids

Dandelion root is a powerful liver herb and tonic. It eases the congestion of the liver, promotes the flow of bile by the liver and the gallbladder, making it extremely valuable in treating bile duct inflammation, hepatitis, gallstones and jaundice. It is also a wonderful herb for detoxifying the liver.

### Artichoke, 5% Cynarin

Artichoke boasts many of the same incredible liver properties as milk thistle. It protects the liver from toxins and poisons, increases bile, and helps to regenerate liver cells, making it useful for a wide range of liver and gallbladder problems.

