

LV-GB Complex™ provides support for liver and gallbladder function by providing lipotropic substances to aid in the elimination of fatty substances from the liver, as well as promoting proper bile flow (L-methionine, taurine, beta-carotene, ox bile and inositol). Critical catalysts of hepatic detoxification enzymes are also included (vitamin B12 and the pyridoxal-5-phosphate form of vitamin B6). These are mixed with a combination of hepatic (aid the liver) and cholagogue (aid bile flow) herbs such as milk thistle, artichoke, and beet root for optimal processing and elimination of toxins.

Milk thistle (Silybum marianum) is a well-researched protective herb for hepatocytes. It can also aid in the flow of bile to promote optimal gallbladder function. Beet root (Beta vulgaris) is a valuable source of betaine (trimethylglycine), which can act to reduce fatty infiltration and degeneration of the liver, as well as help to thin the bile for improved gallbladder function. LV-GB Complex™ is designed to also support optimal digestion and assimilation of essential fats and fat-soluble vitamins, making this formula appropriate for patients who have had their gallbladder removed surgically and patients suffering from skin disorders.

WHO SHOULD TAKE LV-GB COMPLEX™?

Patients without a gallbladder, patients needing to improve liver or gallbladder function, those with inability to handle fatty foods and those with bloating, gas, GI distress, or skin problems. This synergistic formula will aid fat digestion and improve absorption of fat-soluble vitamins. This product is excellent for detoxification support.

WHO SHOULD NOT TAKE LV-GB COMPLEX™?

Patients experiencing acute upper abdominal pain or who are known to have a bile duct obstruction should not take LV-GB Complex™.

Medicinal Ingredients (per capsule):

L-Methionine	50 mg
Milk thistle (Silybum marianum-Seed) (80% silymarin)	50 mg
Inositol (Myo-inositol)	33.3 mg
Taurine (2-Aminoethanesulfonic acid)	33.3 mg
Artichoke (Cynara cardunculus-Leaf) (5% Cynarin)	25 mg
Ox Bile (Bos taurus)	25 mg
Beet (Beta vulgaris-Tuber)	16.7 mg
Vitamin B6 (Pyridoxal 5-phosphate)	1.7 mg
Beta-Carotene ⁷	
Vitamin B12 (Methylcobalamin)	5 mcg
Non-Medicinal Ingredients: Microcrystalline cellulose, hyprome	ellose, sunflower leci-
thin, magnesium stearate (vegetable source). Recommended Dose: Adults: Take 3 capsules per day with meals, or as directed by your health care practitioner. Take a few hours before or after taking other medications.	

REFERENCES

- 1. Canty DJ, Zeisel SH. Lecithin and choline in human health and disease. Nutr Rev. 1994; 52:327-339.
- 2. Blusztajn JK. Choline, a vital amine. Science. 1998; 281:794-5.
- 3. Gavin G, McHenry EW. Inositol as a lipotropic agent. J Biol Chem. 1944; 148:275.
- 4. Vale JA, Meredith TJ, Goulding R. Treatment of acetaminophen poisoning. The use of oral Methionine. Arch Int Med. 1981; 141(3 Spec No):394-396.
- 5. Hayes KC, Sturman JA. Taurine in metabolism. Ann Rev Nutr. 1981; 1:401-425.
- 6. Chesney RW. Taurine: its biological role and clinical implications. Advances in Pediatrics. 1985; 22:1-42.
- 7. Barak AJ, Tuma DJ. Betaine, metabolic by-product or vital methylating agent? Life Sci.1983; 32:771-774.
- 8. Barak AJ, Beckenhauser HC, Badakhsh S, Tuma DJ. The effect of betaine in reversing alcoholic steatosis. Alcohol Clin Exp Res.1997; 21:1100-1102.
- 9. Schneider G, Kack H, Lindquist Y. The manifold of vitamin B6 dependent enzymes. Structure. 2000; 8:R1-R6.
- 10. Anon. How folate fights disease. Nature Struct boil. 1999; 6:293-294.
- 11. Lucock M. Folic acid: nutritional biochemistry, molecular biology, and role in disease processes. Mol Genet Metab. 2000; 71:121-138.
- 12. Carmel R. Subtle cobalamin deficiency. Ann Intern Med.1996; 124:338-339.
- 13. Battersby AR. How nature builds the pigments of life: The conquest of vitamin B12. Science 1994; 264:1551-1557.
- 14. Feher J, et al. Hepatoprotective activity of silmarin (legalon) therapy in patients with chronic liver disease. Orv Hetil 130:2723-27, 1989.
- 15. Flora K, etal. Milk thistle (Silybum marianum) for the therapy of liver disease. Am J Gastroenterol 93:139-43, 1998.
- 16. Williams CA, Goldstone F, Greenham J. Flavanoids, cinnamic acids and coumarins from the different tissues and medicinal preparations of Taraxacum officinale. Phytocheistry 42(1), 121-127, 1996.
- 17. Pizzorno JE, Murray MT. Textbook of Natural Medicine (2nd Ed.), Churchill Livingstone, New York, 1999.
- 18. Fetrow CW, Avila JR. Complimentary & Alternative Medicines: Professional's Handbook. Springhouse, Springhouse, PA, 1999.
- 19. Werbach MR, Murray, MT. Botanical Influences on Illness: A sourcebook of clinical research. Third Line Press, Tarzana, California, 1994.
- 20. Bascom A. Incorporating Herbal Medicine Into Clinical Practice. F.A. Davis Co., Philadelphia, 2002.
- 21. Cheallier A. Encyclopedia of Herbal Medicine. Dorling Kindersley, London, 2000.
- 22. Robbers JE, Speedie MK, Tyler VE. Pharmacognosy and Pharmacobiotechnology. Williams & Wilkins, Baltimore, 1996.
- 23. PDR for Nutritional Supplements, 1st Ed. Medical Economics/Thompson Healthcare, 2001. 24. PDR for Herbal Medicines, 1st Ed. Medical Economics/Thompson Healthcare, 1998.