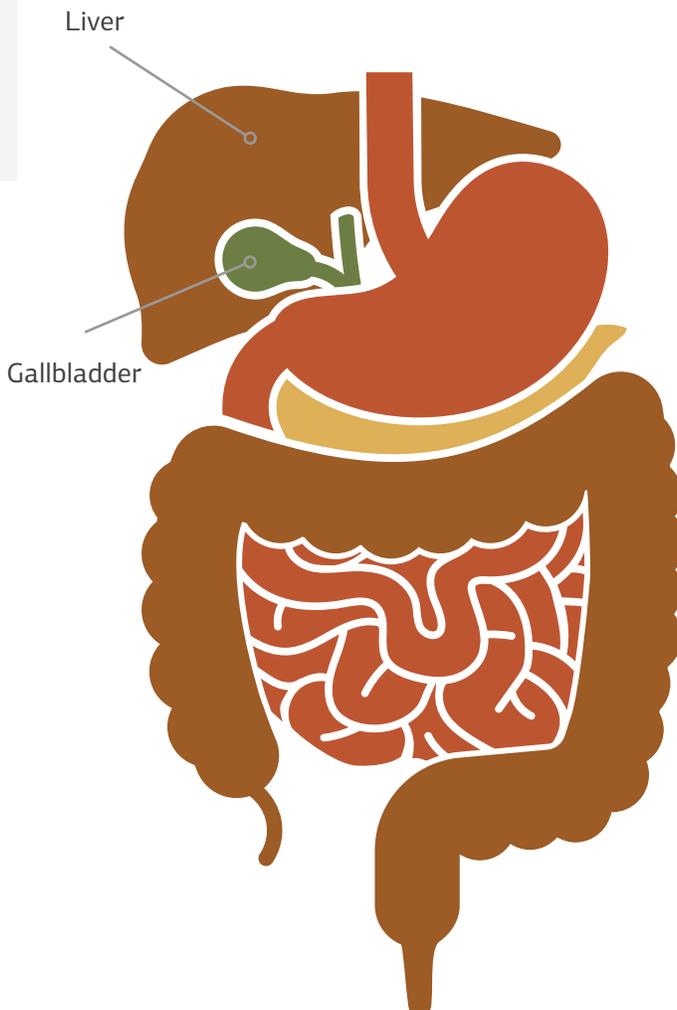


Livaplex is a supplement for liver health that provides foundational support for the liver.\*

- Supports healthy liver function\*
- Supports the body's normal toxin-elimination function\*
- Supports normal digestive environment in the GI\*
- Supports normal bile production\*
- Contains a combination of key ingredients from A-F Betafood®, Hepatrophin PMG®, Betacol®, Spanish Black Radish, Chezyn®, and Antronex®
- Excellent source of vitamin B<sub>6</sub> and zinc
- Good source of iron, copper, niacin, and antioxidant vitamin A

## Livaplex Supports Healthy Liver Function and Bile Production\*

Niacin (Vitamin B<sub>3</sub>) is a precursor to nicotinamide adenine dinucleotide phosphate (NADP+), which can be reduced to NADPH.<sup>1</sup> NADPH is involved in many reactions, including the synthesis of cholesterol and bile acids in the liver.<sup>2</sup> Bile is important for the emulsification of fats during digestion.<sup>3</sup>



**Warning:** Accidental overdose of iron-containing products is a leading cause of fatal poisoning in children under 6. Keep this product out of reach of children. In case of accidental overdose, call a doctor or poison control center immediately.

## Supplement Facts

Serving Size: 1 Capsule  
Servings per Container: 90

	Amount per Serving	%Daily Value
Vitamin A (54% as beta-carotene)	150 mcg RAE	17%
Niacin	2.8 mg	18%
Vitamin B <sub>6</sub>	0.8 mg	47%
Iron	2.5 mg	14%
Iodine	10 mcg	7%
Zinc	5 mg	45%
Copper	0.1 mg	11%
Sodium	10 mg	<1%

Proprietary Blend 582 mg †  
Bovine liver PMG™ extract, organic Spanish black radish (root), bovine liver, organic SP beet blend (organic swiss chard juice powder, organic beet (root), organic beet (leaf) juice powder), calcium lactate, Spanish moss (*Tillandsia usneoides*), organic sweet potato, organic carrot, organic oat flour, betaine hydrochloride, magnesium citrate, choline bitartrate, potassium bicarbonate, bovine kidney, bovine prostate, bovine adrenal Cytosol™ extract, bovine liver fat extract, bovine orchic extract, organic flaxseed oil, ascorbic acid, and d-alpha tocopherol (vitamin E sunflower).

†Daily Value not established.

Other Ingredients: Gelatin, zinc amino acid (rice) chelate, iron amino acid (rice) chelate, water, calcium stearate, niacinamide, copper amino acid (rice) chelate, beta carotene, pyridoxine hydrochloride, modified corn starch, prolamine iodine (zein), vitamin A palmitate, and sucrose.

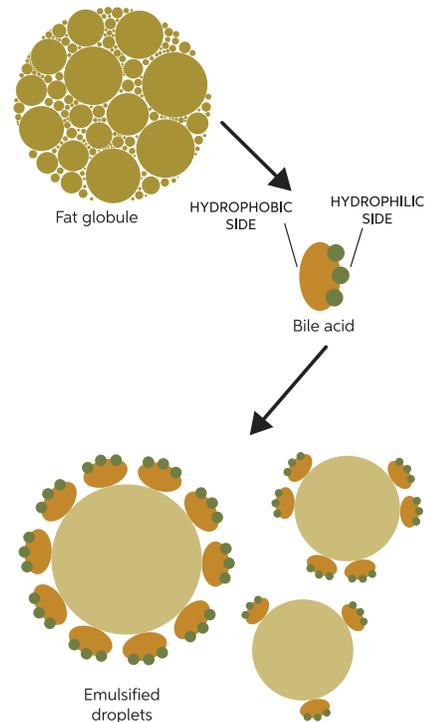
\*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

## Livaplex Supports the Body's Normal Toxin-Elimination Function\*

The role of niacin in producing bile also aids in normal toxin elimination as bile is the major excretory route for exogenous drugs, xenobiotics, and environmental toxins.<sup>4</sup> NADPH is also involved in cytochrome P450 metabolism of endobiotics and xenobiotics, while NADP contributes to the regeneration of detoxification system components.<sup>2,5</sup>

The active form of vitamin B<sub>6</sub>, pyridoxal 5'-phosphate (PLP), is important in detoxification processes through its role in the synthesis of the amino acid taurine from sulfur amino acids.<sup>6</sup> Taurine can be utilized in the conjugation processes of phase II detoxification.<sup>7</sup>

Livaplex also contains Spanish Black Radish (SBR), a source of glucosinolates. Glucosinolates provide several health benefits, likely through activating enzymes involved in metabolic detoxification and antioxidant activity.<sup>8-11</sup> In an open-label pilot study conducted by Standard Process, SBR increased liver detoxification capacity and enhanced Phase II detoxification pathways.<sup>12</sup> The SBR found in Livaplex is grown on the organic Standard Process farm.



## Digestive Environment Support\*

Niacin is important for bile acid synthesis, which can hasten gut transit time by inducing fluid and electrolyte secretion as well as stimulating colonic contractions.<sup>13</sup>

The **great majority** of the raw plant ingredients used in our products are grown on our certified organic farm

**Freshly picked crops** are often processed within a day to maintain vital nutrients

We harvest more than **6.5 million** pounds of ingredients on our certified organic and sustainable farm

## Healthy Soil. Healthy Plants. Healthy Lives.

Standard Process is a family-owned company dedicated to making high-quality and nutrient-dense supplements for three generations.

We apply a holistic approach to how we farm, manufacture and protect the quality of our products. This comprehensive strategy ensures that our clinical solutions deliver complex nutrients as nature intended. It's how we define the whole food health advantage.

### REFERENCES

1. Vitamin B3 (Niacin). (2020, August 13). Retrieved June 18, 2021, from <https://med.libretexts.org/@go/page/8759>
2. Agedal L, Niere M, Ziegler M. Redox Rep. 2010;15(1):2-10. doi: 10.1179/174329210X12650506623122. PMID: 20196923; PMCID: PMC7067316.
3. Hundt M, Basit H, John S. Physiology. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK470209/>
4. Boyer JL. In: Schiff ER, Sorrell MF, Maddrey WC, editors. Philadelphia: Lippincott, Williams & Wilkins; 2002. pp. 135–165.
5. Mirella Meyer-Ficca, James B Kirkland, Niacin, Volume 7, Issue 3, May 2016, Pages 556–558, <https://doi.org/10.3945/an.115.011239>
6. Ranjana P. Bird, Chapter Four In: Eskin, M, editor. Food and Nutrition Research, Academic Press Pages 151-194.
7. Hodges RE, Minich DM. J Nutr Metab. 2015; 2015:760689. doi:10.1155/2015/760689
8. Hanlon PR, Barnes DM: J Food Sci 2011, 76:C185-92. 2.
9. Hanlon PR, Webber DM, Barnes DM: J Agric Food Chem 2007, 55:6439-46.
10. Lewis, J., & Fenwick, G. (2003, October 02). var. botrytis subvar. cymosa Lam.). Retrieved June 19, 2020, from <https://www.sciencedirect.com/science/article/abs/pii/S030814687900124>
11. N'jai, A.U., Kemp, M.Q., Metzger, B.T., Hanlon, P.R., Robbins, M., Czuprynski, C., Barnes, D.M. (2012). Nutr Cancer,64(7):1038-1048.
12. Evans M, Paterson E, Barnes DM BMC Complement Altern Med 2014, 14:475. 6. Lewis, J., & Fenwick, G. (1987). Food Chemistry, 25(4), 259-268. doi:10.1016/0308-8146(87)90012-4
13. Kirwan WO, et al. 1975 Nov;16(11):894-902



standardprocess.com

\*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.