

The Master Detoxifier



Setria®

The Power To Protect™

What is Glutathione?

Healthy Origins® Setria® L-Glutathione Reduced is a naturally derived substance that is a biologically active sulfur amino tripeptide compound containing three amino acids: L-Cysteine, L-Glutamic Acid, and Glycine. Glutathione is one of the most powerful protective substances in the body. Its function is to protect all kinds of cells from the damaging effects of toxins and oxidative stress.*

Setria® Glutathione:

- Offers superior antioxidant support by providing reduced glutathione, the most powerful intracellular antioxidant. 1*
- Provides reduced glutathione (GSH), which can regenerate oxidized vitamin C back to its active form. 2, 3*
- Provides GSH to support glutathione-dependant enzymes crucial for detoxification within the body. 4*
- Provides GSH to support glutathione S-transferases in the safe elimination of toxins. 5*
- Provides GSH, which supports the detoxification of xenobiotics in the liver. 6*
- Supplies reduced glutathione, an antioxidant required for many stages of the immune response. 6*
- Promotes healthy aging by contributing to the body's antioxidant defenses and GSH levels that naturally decline with age. 7*
- Provides reduced glutathione (GSH), a unique antioxidant that can be absorbed intact. 8, 9*



Why is Setria® called the morning antioxidant?

Your body's natural glutathione levels fluctuate constantly throughout the day, are lowest in the morning and decrease as you age. Healthy Origins® Setria® L-Glutathione Reduced is recommended daily as a dietary supplement taken first thing in the morning to maintain healthy glutathione levels. *

What does L-Glutathione Reduced mean?

Reduced refers to the non-oxidized stable form of L-Glutathione.

1. Fraternali, A., et al., *Antiviral and immunomodulatory properties of new pro-glutathione (GSH) molecules*. *Curr Med Chem*, 2006. 13(15): p. 1749-55.
2. Duarte, T.L. and J. Lunec, Review: *When is an antioxidant not an antioxidant? A review of novel actions and reactions of vitamin C*. *Free Radic Res*, 2005. 39(7): p. 671-86.
3. Wilson, J.X., *The physiological role of dehydroascorbic acid*. *FEBS Lett*, 2002. 527 (1-3): p. 5-9.
4. van Haften, R.L., et al., *Effect of vitamin E on glutathione-dependent enzymes*. *Drug Metab Rev*, 2003. 35(2-3): p. 215-53.
5. Schafer, M. and S. Werner, *Oxidative stress in normal and impaired wound repair*. *Pharmacol Res*, 2008. 58(2): p. 165-71.
6. Balendiran, G.K., R. Dabur, and D. Fraser, *The role of glutathione in cancer*. *Cell Biochem Funct*, 2004. 22(6): p. 343-52.
7. Ballatori, N., et al., *Glutathione dysregulation and the etiology and progression of human diseases*. *Biol Chem*, 2009. 390(3): p. 191-214.
8. Hunjan, M.K. and D.F. Evered, *Absorption of glutathione from the gastro-intestinal tract*. *Biochim Biophys Acta*, 1985. 815(2): p. 184-8.
9. Iantomasi, T., et al., *Glutathione transport system in human small intestine epithelial cells*. *Biochim Biophys Acta*, 1997. 1330(2): p. 274-83.

Healthy Origins®

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*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to treat, cure or prevent any disease.

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