



# Fact Sheet

## Glutathione-based Products

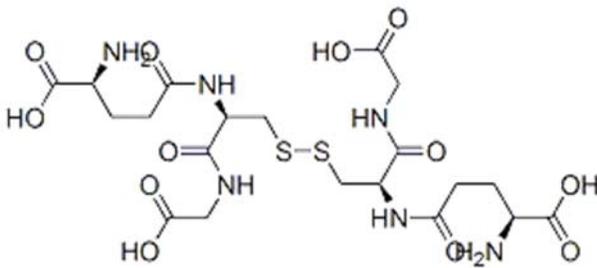
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### What is glutathione?

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Glutathione is a naturally occurring, [highly beneficial compound](#) in the human body referenced in [thousands of published scientific articles and research studies](#) by [scientists who continue to explore its amazing properties](#).

Chemically, glutathione is a “crystalline, water-soluble peptide of [glutamic acid](#), cysteine, and glycine, C<sub>10</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>S, found in blood and in animal and plant tissues, and important in tissue oxidation and in the activation of some enzymes”.<sup>1</sup>



**Image 1: Glutathione molecules** (Image borrowed from [ChemicalBook.com](#).)

But glutathione is so much more than a collection of hydrogen, nitrogen, oxygen, and sulfur atoms. A highly potent **detoxifying antioxidant**, its documented benefits are both significant and extensive, touching on systems throughout the body.

From cataracts to cancer to chronic fatigue, glutathione has a wide variety of applications as a health support. In fact, [WebMD](#) lists glutathione as a treatment option for over 23 conditions, as well as “maintaining the body’s defense system (immune system) and fighting metal and drug poisoning”. (See [WebMD](#) link above for more information and a full list of conditions.) Many scientific studies have shown and supported the understanding that glutathione has an important role to play in the treatment and prevention of hundreds of diseases. Clinical tests show that raised glutathione levels may address major health issues such as: heart disease, cancer, stroke, diabetes, high cholesterol, asthma, cigarette smoking, hepatitis, AIDS, etc. Glutathione provides the body with tools to fight off these threats naturally.

Healthy people also benefit from elevated glutathione levels through an enhanced ability to fight off toxins, infectious disease, pre-cancerous cells and the aging process. Moreover, physically active people and world-class athletes are discovering that well-maintained glutathione levels give them the edge over their competitors, providing greater strength and endurance, decreased recovery time from injury, less muscle pain and fatigue, and muscle-promoting activity.

It's truly a superstar compound! No wonder we have included it in some of our most popular products.

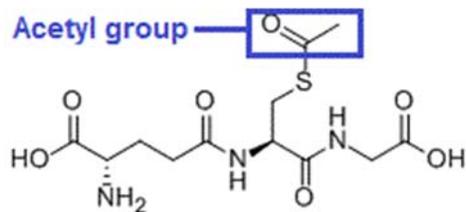
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## Why do we use an acetylated version of glutathione?

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With such a glowing profile, it's natural to wonder if glutathione usage has a downside or drawback. The answer is...sort of. There are two challenges with supplementation of glutathione: 1) poor absorption and 2) hydrolytic degradation (meaning it breaks down or decomposes in the presence of water).

To overcome these obstacles, CitriSafe uses an acetylated form of glutathione called acetyl-glutathione, which includes an acetyl group (on its thiol function). The acetyl group stabilizes the molecule from oxidation and protects it from hydrolyzation as it passes across the intestinal lining into the cells. Once inside a cell, the acetyl-glutathione molecule "loses" the acetyl group thanks to the action of cytoplasmic enzymes, returning it to a regular (or "reduced") glutathione molecule so that it can do its fantastic work of detoxifying and restoring cellular function to optimal levels.



**Image 2: S-Acetyl Glutathione molecule** (Image borrowed from [ChemicalBook.com](http://ChemicalBook.com).)

Essentially, the acetylated version of glutathione maximizes the body's ability to use the glutathione by allowing the molecule to reach its intended destination (the cells) intact and ready to get to work detoxifying and repairing cellular damage.

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## What are CitriSafe's glutathione-based products?

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CitriSafe offers a full line of glutathione-based **balms** that promote the soothing, healing, and regeneration of sore, tired, and/or injured tissues, including skin, joints, and muscles. As well, we offer a highly potent line of **oral supplements** to boost the body's natural level of glutathione.

Our inaugural Acetyl Glutathione **balm** formulation was specifically created with the intent to soothe neuropathy symptoms, including numbness, burning, tingling, sensitivity and weakness. The [National Institute of Neurological Disorders and Stroke Neuropathy](#), estimates "20 million people in the United States have some form of peripheral neuropathy, a condition that develops as a result of damage to the peripheral nervous system<sup>2</sup>."



Unfortunately, conventional options for relief from neuropathy pain may be ineffective, expensive, produce unwanted side effects, or all three. That was the experience of our founder, Walter Hayhurst, RPh, who developed neuropathy as a result of damage sustained from a severe mold exposure. As with many of our products, Walter used his years of training and experience as a pharmacist to develop a product to alleviate his own symptoms, then made sure to share it with everyone else.

Made with the finest ingredients, our acetyl-glutathione balms incorporate organic virgin coconut oil ([a fantastic topical emollient for hair, skin, and nails](#)), organic [olive oil](#), and a blend of other salutary ingredients to promote soothing and healing of the skin, muscles, and joints. Simply rub a pea-sized amount into your skin (just as you would lotion) wherever you need relief. Many of our clients notice a difference in their symptoms within just a *few minutes!*

Are you an athlete? Do you work a physically demanding job? (Hey, moms! Chasing after kids all day counts.) Are you recovering from an injury? Do you suffer from arthritis? CitriWave balm can help soothe aches and pains of all types making them a fantastic resource for you and your family when the need arises.

These balms can also capitalize on The Benefits of Electro-Therapy. You can boost the effectiveness of electro-therapy with Citri•Wave balms in 4 strength levels. In fact, we developed an entire line of our balms to capitalize on ingredients with complementary all-natural ingredients to enhance delivery to targeted relief to common areas of trouble – feet, the jaw, elbows and knees, and the neck and back.



# CitriWave Products

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## Balms



Acetyl Glutathione Balm– Level 1



Acetyl Glutathione Balm– Level 2  
with Eucalyptus



Acetyl Glutathione Balm– Level 3  
with Peppermint



Acetyl Glutathione Balm– Level 4  
with Frankincense

## CitriSafe Oral Supports

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Ovation Acetyl-Glutathione Capsules (100 mg, 60 count)

Ovation Acetyl-Glutathione Capsules (300 mg, 100 count)



Visit our online shop @ [www.citrisafe.com](http://www.citrisafe.com) to see our full line of products!