

# Research Alert

## Studies on Tri-Fortify®

### RESEARCH EXECUTIVE SUMMARY

An in vivo 4-week study using Tri-Fortify® as the sole nutritional intervention was conducted to assess changes in intracellular glutathione absorption, natural killer cell function and oxidative stress markers. This research was conducted at the Penn State University College of Medicine.<sup>1</sup>

The researchers concluded that "The results of this pilot study demonstrate for the first time increased body stores of GSH after oral administration of liposomal GSH in humans...and the effects were seen as early as 1 week. In addition, liposomal GSH had positive effects on several GSH-related parameters, including decreases in biomarkers of oxidative stress and enhancements in immune function."

#### RESEARCH HIGHLIGHTS:

##### • Intracellular absorption

28% increase in red blood cell glutathione levels (erythrocytes)\*  
( $p < 0.05$ )<sup>1</sup>

##### • Immune support

400% increase in natural killer cell function\*  
( $p < 0.05$ )<sup>1</sup>

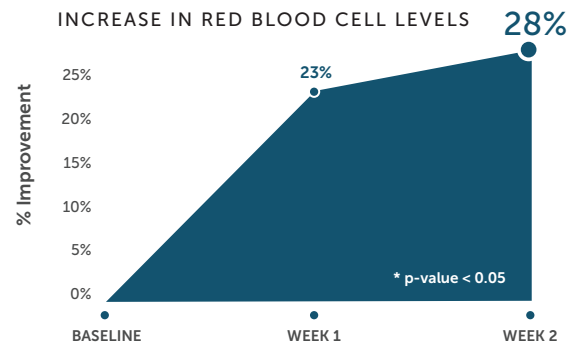
##### • Oxidative stress

25% reduction in lipid peroxidation\*  
( $p < 0.05$ )<sup>1</sup>

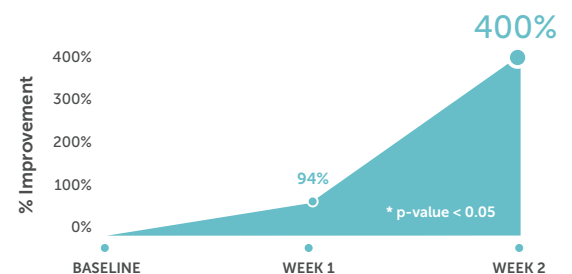


#### GLUTATHIONE LEVELS\*

INCREASE IN RED BLOOD CELL LEVELS

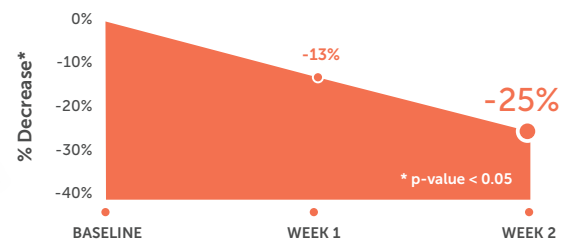


#### NATURAL KILLER CELL FUNCTION\*



#### OXIDATIVE STRESS MARKERS\*

LIPID PEROXIDATION  
(Reduced cellular membrane oxidation)



1. European Journal of Clinical Nutrition (R Sinha, JP Richie Jr., Et al.. Oral supplementation with liposomal glutathione elevates body stores of glutathione and markers of immune function. Eur J Clin Nutr. 2018 Jan; 72(1): 105-111.).



Tri-Fortify® Orange  
48 Serving Tube Product No. RN136



Tri-Fortify® Watermelon  
48 Serving Tube Product No. RN152

# Tri-Fortify®

## Clinically Researched Liposomal Glutathione



### Supplement Facts

Serving Size: 1 teaspoon (5 mL)  
Servings per Container: Approx. 48

|                                  | Amount<br>Per Serving | % Daily ** |
|----------------------------------|-----------------------|------------|
| <b>Calories</b>                  | <b>30</b>             |            |
| <b>Total Fat</b>                 | <b>1 g</b>            | <b>1%</b>  |
| <b>Vitamin C (Ascorbic Acid)</b> | <b>50 mg</b>          | <b>56%</b> |
| <b>Reduced Glutathione</b>       | <b>450 mg</b>         | <b>†</b>   |

\*\* Percent Daily Value based on a 2,000 calorie diet  
† Daily Value not established.

**Other Ingredients:** Glycerin, medium chain triglycerides, phospholipids (soy), natural flavor.

**Contains:** Ingredients partially derived from soy and tree nuts (coconut).

Manufactured without milk, eggs, fish, crustacean shellfish, peanuts, wheat and gluten. Produced in a facility that may process other ingredients containing these allergens.

### Each Serving Includes:

| Features                           | Constituents/Actions   | Benefits*   |
|------------------------------------|--|---|
| <b>Bolsters Antioxidant Action</b> | <ul style="list-style-type: none"> <li>Glutathione is a tri-peptide composed of the three amino acids L-glutamic acid, L-cysteine and L-glycine</li> </ul>   | <ul style="list-style-type: none"> <li>Known as the master antioxidant because it recycles other antioxidants, such as vitamins C and E</li> <li>As glutathione exists within the cells, it is in a prime position to neutralize free radicals, which can build up in cells and cause damage</li> <li>The strong antioxidant effect of glutathione helps keep cells running smoothly</li> </ul>                     |
| <b>Promotes Detoxification</b>     | <ul style="list-style-type: none"> <li>Glutathione also helps the liver remove chemicals that are foreign (xenobiotics) to the body, such as drugs and pollutants</li> <li>Highest amounts of glutathione are found in the liver and kidneys, which are responsible for the removal of toxic components</li> <li>Glutathione is also present in high amounts in the lung lining</li> </ul> | <ul style="list-style-type: none"> <li>Unique ability to bind to toxins, heavy metals, solvents, and pesticides - and helps the body excrete these substances in either urine or bile</li> <li>Protects against airborne pollutants, and in the intestinal lining, where it bars the absorption of industrial chemicals</li> </ul>  |
| <b>Fortifies Immune System</b>     | <ul style="list-style-type: none"> <li>Glutathione is required to maintain the normal function of the immune system</li> </ul>   | <ul style="list-style-type: none"> <li>Plays a critical role in the proper function of white blood cells, including T cell lymphocytes and the multiplication of lymphocytes (the cells that mediate specific immunity)</li> <li>Adequate function of white blood cells is essential in mounting an effective immune response</li> <li>Many chronically ill patients have depleted levels of glutathione</li> </ul> |

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### Heat Stable

We subjected Tri-Fortify® to 104°F/40°C and 75% Humidity for 90 consecutive days and the product still exceeded label claim.

### Suggested Use

As a dietary supplement, gently squeeze the tube to fill 1 teaspoon (5 mL). Hold under tongue for 30-60 seconds and then swallow, or use as directed by your healthcare professional. Additional doses may be taken.

### Shake tube well before use.

### Cautions

If pregnant or nursing, consult your healthcare professional before use.



\*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.

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