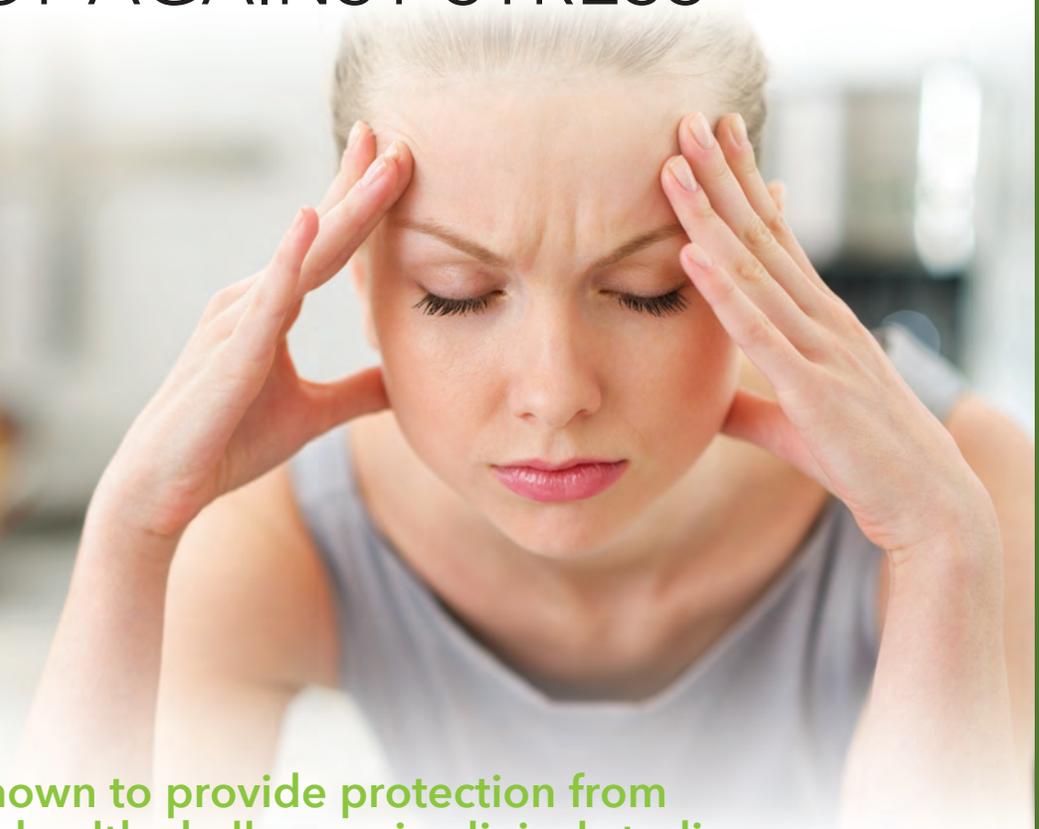




# STRENGTHENING IMMUNITY TO PROTECT AGAINST STRESS



## Wellmune® shown to provide protection from stress-related health challenges in clinical studies

### Quick Facts About Wellmune®:

**Research.** Wellmune's® year-round protection is the culmination of more than \$300 million research that includes nine human clinical studies.

**Certifications.** Wellmune® has broad regulatory approval, including the U.S. (GRAS/FDA), EU, China and other countries around the world. This unique food, beverage and supplement ingredient is Kosher, Halal, non-allergenic and GMO-free.

**Applications.** Ideal for formulation in virtually all foods, beverages and dietary supplement product forms.

**Patents.** More than 40 U.S. patents and patents pending, plus additional filings in more than 20 countries.

Stress is on the rise. A new study from Carnegie Mellon University reports that stress levels have increased 18% for women and 25% for men over the past 25 years. Stress is linked to many health problems, including suppression of the immune system. Numerous human clinical studies with Wellmune® demonstrate the ability of this natural immune health ingredient to alleviate the harmful effects of both physical and psychological stress.

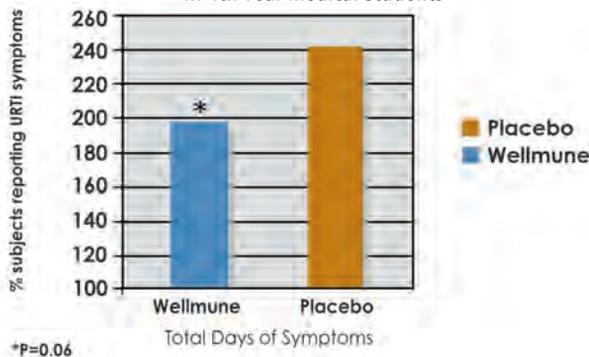
# MULTIPLE STUDIES SHOW WELLMUNE® PROVIDES PROTECTION



- **Wellmune® protection.** Clinical studies in high-stress populations, including firefighters, medical students and people with high stress lifestyles, found Wellmune® improved overall physical health and reduced the incidence, and in some cases the duration, of upper respiratory tract infection (URTI) symptoms.

A recent double-blind, placebo-controlled clinical study involving 100 fourth-year medical students found that Wellmune® reduced (18%) the total number of days of URTI symptoms (198 days vs 241 days,  $p=0.06$ ). Figure 1.

**Figure 1: Effect of Wellmune® on Cold & Flu Symptoms in 4th Year Medical Students**

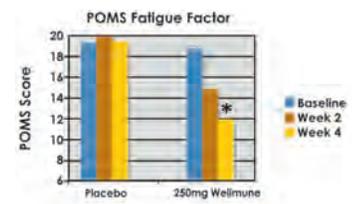
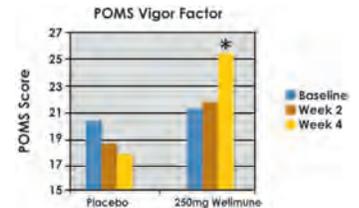


"Influence of yeast-derived 1,3/1,6 glucopolysaccharide on circulating cytokines and chemokines with respect to upper respiratory tract infections." Nutrition 28:665-669.

- Wellmune® also provides psychological benefits. In addition to a reduction in URTI symptoms, Wellmune® enhanced vigor and mental clarity of clinical study subjects while reducing tension and fatigue. Participants taking Wellmune® reported feeling better about their overall health than those in placebo groups.

A randomized, double-blind and placebo-controlled clinical study\* with 150 individuals with stressful lifestyles demonstrated that after four weeks, the 250 mg per day Wellmune® group experienced a:

- 42% increase in vigor
- 38% reduction in fatigue
- 19% reduction in tension
- 15% reduction in stress-related confusion



- **Wellmune's® mechanism of action is well understood.** Wellmune® primes neutrophils, the largest population of immune cells that are part of the body's natural defenses. Priming neutrophils readies them for action without over stimulating the immune system, which can be harmful long term. Biomarker data supports Wellmune's® priming effect on immune cells.
- Wellmune® is safe for daily use. Wellmune® is generally recognized as safe (GRAS) under U.S. FDA regulations and is designed for year-round, not merely seasonal, protection.

\* "Beta 1,3/1,6 Glucan Decreases Upper Respiratory Tract Infection Symptoms and Improves Psychological Well-being in Moderate to Highly-Stressed Subjects." Agro Food Industry Hi-Tech (2010), 21:21-24.



THESE STATEMENTS HAVE NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THIS PRODUCT IS NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.

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