

Wheat Rescue™



Going Beyond Gluten Protection

Gluten is a combination of two storage proteins, glutenin and gliadin, that are found in the middle layer, or endosperm, of various cereal grains. Normally, the pancreas secretes digestive enzymes, like proteases and peptidases, to help break down proteins like gluten. However, imbalances in gut bacteria and the normal aging process can limit the body's natural ability to produce these necessary digestive enzymes.

WheatRescue™ is a unique blend of powerful digestive enzymes and probiotics designed to support optimal gluten digestion and protect against hidden sources of gluten. DPP-IV and Tolerase G® are specific enzymes that assist in the breakdown of glutenin and gliadin proteins, which can help alleviate symptoms associated with dietary gluten intolerance and sensitivity. WheatRescue™ combines resilient probiotic spores with superior digestive enzymes to support the complete digestion of gluten and other inflammatory wheat-derived peptides within 60 to 90 minutes.

There's no denying that gluten is problematic for many people. Many doctors will suggest a strict gluten-free diet, but recent discoveries have revealed this may not be enough. New research suggests that the small intestines of up to 60% of adults with celiac disease never completely heal despite following a gluten-free diet.¹

This could be due in part to gluten contamination in many "gluten-free" foods. A recent study examined 5,624 foods tested by 804 users and found that 32% of foods labeled "gluten-free" contained measurable amounts of gluten.² Interestingly, gluten-free pizzas and pastas were the most likely to test positive for gluten with over 50% of samples showing gluten contamination.



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But beyond the risk of gluten contamination, a gluten-free diet does not appear sufficient for repairing intestinal damage. In one study from 2010 of 241 subjects with celiac disease, only 35% of subjects saw mucosal recovery of the small intestine after 2 years of following a gluten-free diet, and only 66% saw mucosal recovery after 5 years of eating a gluten-free diet.³

Another study from 2009 examined 465 celiac subjects who adhered to a gluten-free diet for 16 months and found that total restoration of the intestinal damage inflicted by gluten was exceptionally rare (roughly 8%) in adult celiac patients despite following a gluten-free diet.⁴ These findings suggest that while a gluten-free diet can help to prevent further damage, the avoidance of gluten alone is not sufficient for total gut restoration.

A combination of probiotic spores and yeast can effectively support intestinal health and barrier function. *Saccharomyces boulardii* is a probiotic yeast that can help support digestive health by producing lactate, B vitamins, and targeted antimicrobials to defend against pathogenic gut infections. *S. boulardii* has also been shown to be immunoprotective through the upregulation of IgA and IgG secretions in the intestines.⁵ *Bacillus coagulans* and *Bacillus subtilis* are spore-forming probiotics that are naturally designed to survive digestion, support intestinal barrier function, and enhance the microbial diversity of the gut microbiome.

Suggested Use

Ages 8+: Take 1 capsule with a meal 3 times daily. Children under 8 years of age please consult with your healthcare practitioner.

SUPPLEMENT FACTS

Serving Size: 1 Capsule
Servings Per Container: 60

Amount Per Serving	% Daily Value	
Proprietary Probiotic Blend	5 Billion CFU	140 mg
Bacillus subtilis, HU58™		†
Bacillus coagulans (SC-208)		†
Saccharomyces boulardii		†
Enzyme blend		189 mg
Fungal Protease	75,000 HUT	
Acid Stable Protease	500 SAP	
Peptidase	125 DPP-IV	
Tolerase® G prolyl endopeptidase	45,217 PPIU	
Lipase		84 FIP
Betaine HCl		75 mg

† Daily values not established.

OTHER INGREDIENTS: Cellulose, vegetable capsule (cellulose and water)

B. coagulans is very unique in that it possesses characteristics of both *Bacillus* and *Lactobacillus* genera. It functions as a lactic acid-producing bacterium with the protection and survivability of a *Bacillus* spore. *Bacillus subtilis* HU58™ provides potent immune modulation and has been shown to reduce pro-inflammatory cytokines IL-6 and TNF- α and significantly increase the production of short-chain fatty acids (SCFA) such as butyrate, acetate, and propionate in the gut.⁶ Butyrate is the major energy source for colonocytes and has been studied for its role in nourishing the colonic mucosa.

A recent study published in *Scientific Reports* concluded that microbially-derived byproducts like butyrate and lactate can be used to modulate the epithelial response to gluten by improving barrier function and reducing gliadin-induced cytokine secretion.⁷ When it comes to facing the dangers of gluten, **WheatRescue™** is here to save the day.

WheatRescue™ offers complete digestive support, superior protection, and peace of mind concerning gluten.

References: 1. "Treatment of Celiac Disease". University of Chicago Medicine: Celiac Disease Center website. URL: <http://www.cureceliacdisease.org/treatment/>
2. Lerner BA, et al. Detection of Gluten in Gluten-Free Labeled Restaurant Food: Analysis of Crowd-Sourced Data. *Am J Gastroenterol.* 2019;00:1-6. 3. Rubio-Tapia A, Rahim MW. Mucosal recovery and mortality in adults with celiac disease after treatment with a gluten-free diet. *Am J Gastroenterol.* 2010;105(6):1412-20. 4. Lanzini A, et al. Complete recovery of intestinal mucosa occurs very rarely in adult coeliac patients despite adherence to gluten-free diet. *Aliment Pharmacol Ther.* 2009;29(12):1299-308. 5. Buts JP, et al. Stimulation of secretory IgA and secretory component of immunoglobulins in small intestine of rats treated with *Saccharomyces boulardii*. *Dig Dis Sci.* 1990;35(2):251-6. 6. Dound YA, et al. The effect of Probiotic *Bacillus subtilis* HU58 on Immune Function in Healthy Human. *Indian Practitioner.* 2017;70(9): 15-20. 7. Freire R, et al. Human gut derived-organoids provide model to study gluten response and effects of microbiota-derived molecules in celiac disease. *Sci Rep.* 2019;9(1):7029.