

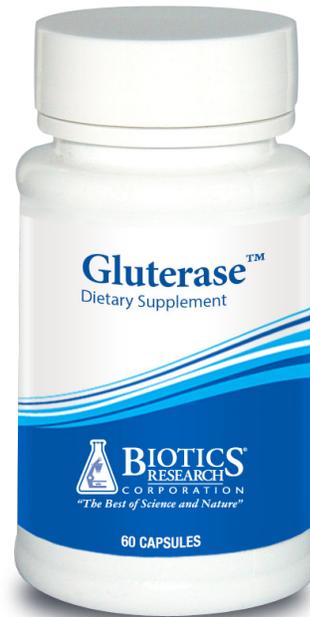
# Gluterase™

**Gluterase™** was designed to provide digestive support for those with gluten intolerance or sensitivity.

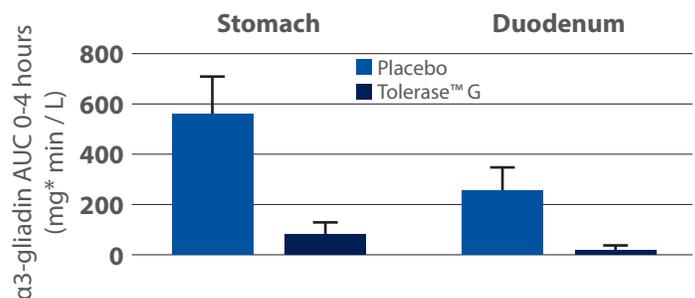
Gluten represents approximately 50% to 80% of the protein found in wheat, barley and rye grains, and primarily due to its rich proline content, is very difficult to digest<sup>(1)</sup>. It can be found in many different foods as an additive, making it very difficult to avoid entirely, even when trying to follow a gluten free diet. It is for those patients that Biotics Research formulated **Gluterase™**.

**Gluterase™** provides specific nutrients shown to help digest and inactivate gluten, and at the same time support the health and efficacy of the gastrointestinal (GI) tract.

Tolerase™ G, a specialized enzyme preparation providing prolyl endopeptidase, and has been shown to significantly degrade gluten (GliA- $\alpha$ 3) in the stomach and duodenum of human volunteers<sup>(2)</sup>. Tolerase™ G is stable and active under gastric conditions and has demonstrated it is more effective than other commercially available enzymes currently promoted to digest gluten<sup>(2,3,4)</sup>.



## Tolerase™ G degrades gluten (GliA- $\alpha$ 3) in stomach and duodenum of human volunteers

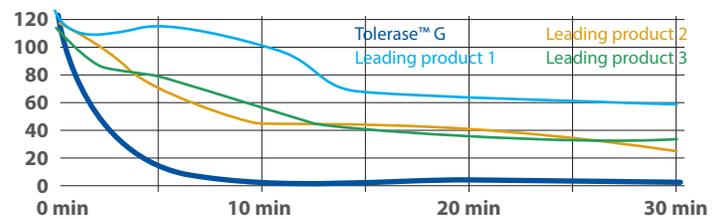


*Tolerase™ G significantly degrades gluten epitope concentrations in the stomach and duodenum of human volunteers compared to placebo<sup>(4)</sup>*

## Gluten-digesting enzymes available on the market are not very effective

### Methods

Commercial dietary supplements for gluten digestion were compared to *in vitro* gluten epitope digestion.



*Currently available gluten-digesting enzyme supplements are not effective<sup>(4)</sup>.*



## (800) 231-5777

6801 Biotics Research Drive • Rosenberg, TX 77471  
biotics@bioticsresearch.com • www.bioticsresearch.com

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.

Gamma oryzanol (from rice) a mixture of sterols and ferulic acid esters. It has been documented to effectively support gastric healing<sup>(5)</sup>.

Okra (*Abelmoschus esculentus*), provides pectin and mucilage, and possesses antioxidant activity. As a mucilaginous nutrient, it provides significant support to mucous membranes.

Marshmallow (*Althaea officinalis*) extract supports mucosa health. Its polysaccharides possess antitussive activity.

Vitamin U Complex (DL-methylmethionine sulfonium chloride) is a methionine derivative shown to protect intestinal membrane cells in humans, and has been documented to support gastric healing<sup>(6)</sup>. Effects include stimulating the formation of gastric mucous, providing antioxidant activity, and acting as a methyl donor.

Superoxide Dismutase and Catalase (from vegetable culture) are two very important antioxidant enzymes.

#### References

1. Hausch t, et al. Am J Physiol - Liver Physiol. 2002 Oct; 283(4): G996-G1003
2. Stepniak D, et al. Am J Physiol – Gastrointestinal and Liver Physiology 2006; 291: G621-9
3. Mitea C, et al. Gut 2008; 57: 25-32
4. Janssen G, et al. PLOS ONE doi:10.1371/journal.pone.0128065 June 1, 2015
5. <http://uofmhealth.org/health-library/hn-2850009> (U of Michigan Health System)
6. Shaw, AL. A Thesis Submitted to the Graduate Faculty of Auburn University May 10,2007

Gluterase™ is available in 60-count bottles (#8009).

## Supplement Facts

Serving Size: 2 Tablets

Servings Per Container: 30

	Amount Per Serving	% Daily Value
Tolerase™ G (prolyl endopeptidase)	270 mg	*
Gamma Oryzanol (from rice)	100 mg	*
Okra ( <i>Abelmoschus esculentus</i> ) (fruit)	100 mg	*
Marshmallow ( <i>Althaea officinalis</i> ) (root) (extract)	50 mg	*
Vitamin U Complex (DL-methylmethionine sulfonium chloride)	20 mg	*
Superoxide Dismutase (from vegetable culture †)	15 mcg	*
Catalase (from vegetable culture †)	15 mcg	*

\* Daily Value not established

**Other ingredients:** Cellulose, modified cellulose gum, modified cellulose, magnesium stearate (vegetable source), food glaze and silica.

† Specially grown, biologically active vegetable culture containing naturally associated phytochemicals including polyphenolic compounds with SOD and catalase, dehydrated at low temperature to preserve associated enzyme factors.

**This product is gluten and dairy free and helps to digest foods containing gluten.**

**RECOMMENDATION:** Two (2) tablets with each meal as a dietary supplement or as otherwise directed by a healthcare professional.  
*For best efficacy, take Gluterase™ at the start of a meal which may contain gluten.*

**CAUTION:** Gluterase™ is not suitable to replace a gluten-free diet. Gluterase™ is not suitable to treat or prevent celiac disease.

#### KEEP OUT OF REACH OF CHILDREN

Store in a cool, dry area.  
Sealed with an imprinted safety seal for your protection.

Product # 8009 Rev. 04/16

To place your order for **Gluterase™** or for additional information please contact us below.



**BIOTICS**  
RESEARCH  
CORPORATION  
Utilizing "The Best of Science and Nature"  
to Create Superior Nutritional Supplements



**(800) 231-5777**

6801 Biotics Research Drive • Rosenberg, TX 77471  
[biotics@bioticsresearch.com](mailto:biotics@bioticsresearch.com) • [www.bioticsresearch.com](http://www.bioticsresearch.com)

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.