

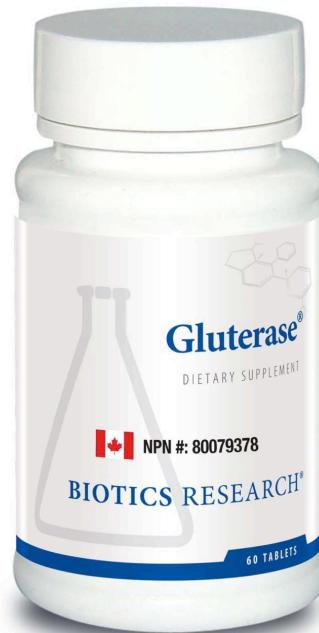
# Gluterase™

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

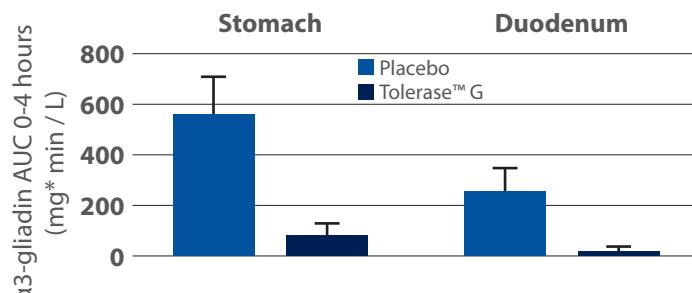
Gluten represents approximately 50% to 80% of the protein found in wheat, barley and rye grains, and primarily due to its rich proline content, is very difficult to digest<sup>(1)</sup>. It can be found in many different foods as an additive, making it very difficult to avoid entirely, even when trying 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**

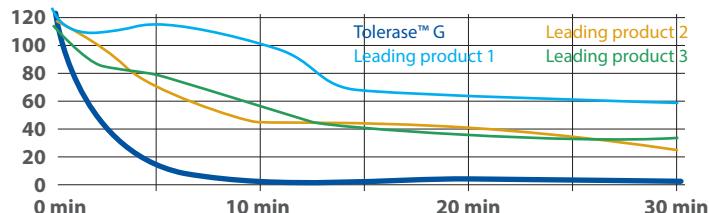


*Tolerase™ G significantly degrades gluten epitope concentrations in the stomach and duodenum of human volunteers compared to placebo<sup>(4)</sup>*

**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>.*



**(905)476-3554**

Biotics Research Canada  
Box 283 • Keswick ON L4P 3E2  
[orders@bioticscan.com](mailto:orders@bioticscan.com)

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.



**(905)476-3554**

Biotics Research Canada  
Box 283 • Keswick ON L4P 3E2  
orders@bioticscan.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.