PRODUCT GUIDE

GASTRO-AD® - FERMENTED SOY

Gastro-AD[®] is a food supplement based on non-GMO soy, fermented by *Lactobacillus delbrueckii* ssp. *lactis* Rosell-187, a strain selected by Institut Rosell

- L. delbrueckii Rosell-187, a strain selected and isolated by Dr Bogdanov in the '50s
- Soy, widely known for its health benefits and chosen for its nutritional qualities
- Gastro-AD[®] has been tested in 600 people
- Gastro-AD[®] contains natural elements of soybean, molecules resulting from fermentation (peptides, microbial metabolites etc.) and *L. delbrueckii* Rosell-187
- Gastro-AD[®] is entirely of biological origin, without any alkalizing, local anesthetic and/or spasmolytic agents



The prevalence of heartburn is **10-20% worldwide**, and **higher in westernized countries**.

16% of **Canadians** experience heartburn regularly.

42% of **Americans** have experienced heartburn at least once.

The number of **Norwegians** experiencing at least one acid reflux attack per week has risen from 11.6% to 17.1% in just over a decade.

Restored well-being! (2),(3),(4),(5)

Reduction of heartburn	86 % of patients
Appetite regained	83 % of patients
Lessening of vomiting	60 % of patients
Reduction of gastric discomfort	58 % of patients

 ${\bf Gastro-AD}^{\circ}$ provides relief from major heartburn symptoms by neutralizing gastric acidity. $^{\rm (6)}$

Lallemand Ingredients



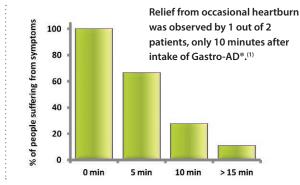
As a good source of complete protein, soy is an **alternative to animal based proteins.**

Soy is cholesterol-free, gluten-free and lactose-

free. Health benefits of fermented soy products, such as tempeh, natto, miso etc., include: relief of heartburn and stomach discomfort, cholesterol-lowering and anti-allergenic effects, and reduction of menopausal symptoms.

Gastro-AD[®] contains **Identity Preserved** (IP) Non-GMO soy.

Quick relief!



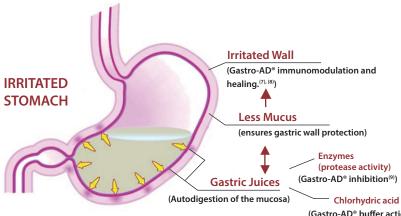


ALLEMAND

PRODUCT GUIDE Gastro-AD®

GASTRO-AD®- MECHANISM OF ACTION

- **Bioactive Compounds** (Released anti-nutritional factors)
- L. delbrueckii Rosell-187
- Soy proteins, peptides, amino acids, microbial metabolites...



(Gastro-AD[®] buffer action)

Gastro-AD°

RECOMMENDED USAGE

Gastro-AD® is available in the form of powder or tablets Recommended intake when occasional heartburn occurs: Powder: 1g, 2-6 times per day, or as needed to control

symptoms

When heartburn occurs frequently (more than twice a week) and is accompanied by other symptoms, it is recommended to consult a doctor

LALLEMAND'S COMMITMENTS



Lallemand is a specialist in yeast and bacteria, and has years of experience in specialty fermentation

Lallemand ensures the quality, safety and efficacy of its products

Gastro-AD® is controlled at all stages of production (non-GMO certification, Lactobacillus delbrueckii Rosell-187 strain selection, fermentation monitoring and quality control of the Gastro-AD® powder)

Lallemand has perfected a manufacturing process which allows to assure perfect mastery from the primary ingredients right to the phyto-fermented product

References

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- 6. Hirata, Y, Uchida, A. Clinical Effects of Gastro-AD for Gastritis Patients. Japanese Journal of Medicine and Pharmaceutical Science 49(4): 597-601. (2002)
- 7. Wallace TD., Bradley S., Buckley ND., Green-Johnson JM. Interactions of Lactic Acid Bacteria with Human Intestinal Epithelial Cells: Effects on Cytokine Production. Journal of Food Protection 66(3): 466-472. (2003) Easo JG, Measham JD, Munroe J, Green-Johnson JIM. Immunostimulatory actions of Lactobacilli: Mitogenic induction of antibody production and spleen cell proliferation by Lactobacillus delbrueckii ssp. bulgaricus and Lactobacillus acidophilus. Food and Agricultural Immunology14:73-83. (2002)
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Normally, our stomach lining is protected from the effects of **gastric** juices (HCL & Proteolytic enzymes) by the mucosal barrier.

Certain factors can alter the mucosal barrier: certain food (spicy, greasy and fried foods, citrus fruits,

etc), hypersecretion of HCl, stress, alcohol, tobacco, H. pvlori, etc.

The stomach acid and proteinases are indiscriminate in their activity and can degrade the stomach lining when the mucosal barrier is altered.

Heartburn: Burning sensation in the lower part of the chest, acid or bitter taste in the throat or mouth.

GERD (Gastroesophageal Reflux Disease) : The acidified liquid contents of the stomach back up into the esophagus. Symptoms are heartburn, regurgitation and nausea. GERD may damage the lining of the esophagus, and cause inflammation.

Gastritis - Inflammation of the stomach mucosa.

Gastroduodenal ulcer – Small sore on the mucosa of the stomach or duodenum, caused by a very strong acid attack and/or an infection by a pathogenic bacteria H. pylori.

> Non-GMO Gluten-free Vegan **Dairy-free Kosher** Halal

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2018-07-17

Health Lallemand Ingredients