

# Pancreas Natural Glandular

## *Beef, Lamb, or Pork*



(Hypoallergenic)

Pork: Item no. 51640, 60 Capsules

Pork: Item no. 51650, 720 Capsules

Beef: Item no. 51620, 90 Capsules

Lamb: Item no. 51630, 90 Capsules

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### **The Possible Benefits of Pancreas Natural Glandular, a Dietary Supplement**

- Provides enzymes and other factors that can enhance and support digestion\*
- May support and modulate the immune function\*
- May support blood glucose within normal levels\*

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### **Description**

Glandular tissue can be a rich source of enzymes and other factors that promote specific gland-related metabolism and physiological function.\* Pancreas Glandular supports digestion, blood glucose within normal levels, and potentially the immune system.\*

Clinical evidence established many years ago that oral glandular therapy with appropriately processed material may have important benefits.\* In the early 1900s, William Berkeley discovered a chemical process for making a pancreatic extract which proved to be of great value in supporting blood glucose within normal levels. The benefit of the oral ingestion of this simple extract of whole pancreas was largely forgotten after other methods and substances became popular, starting in the 1920s.

In 1906, John Beard, Professor of Embryology at the University of Edinburgh, proposed that the pancreatic proteolytic enzymes represent the body's main immune system weapon. A small number of researchers have continued to investigate this theory, including Dr.

Nicholas Gonzalez, who did a retrospective review of 1306 patients who had been treated over a 20-year period by an unconventional practitioner using enzyme therapy along with adjunctive dietary and nutritional support. In 1999, Dr. Gonzalez published a 2-year, unblinded, 1-treatment arm, 10-patient, pilot prospective case study, involving the use of porcine lyophilized pancreas in capsule form, as well as other measures.

Recent evidence demonstrates that orally ingested pancreatic proteolytic enzymes are acid stable, pass intact into the small intestine, absorb through the intestinal mucosa into the bloodstream and recycle back to the pancreas.

NutriCology glandular products are produced from government inspected, range-grazed animals raised in New Zealand, without the use of pesticides, hormones and antibiotics. New Zealand has had no occurrences of Bovine Spongiform Encephalopathy (BSE) or a number of other livestock diseases. All glandulars are subject to in-process as

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well as finished product testing. These tests include microbial contamination to assure acceptable total bacteria counts and absence of pathogenic bacteria.

The proper preparation of the glandulars is essential to insure the value of the product. Properly processed glandular material is effective because the biologically active components such as enzymes, soluble proteins, natural lipid factors, vitamins, minerals and hormone precursors are not eliminated or destroyed. Our glandulars are lyophilized (freeze-dried), which means the glands are quickly frozen at the time of collection and subjected to a high vacuum to remove moisture by direct

vaporization from the frozen state. The process by which the gland is collected and converted to dry powder is the key to minimize degradation and maintain the levels of active components of the tissue. Our Pancreas Natural Glandulars contain excellent levels of naturally-occurring digestive factors, amylase, protease and lipase, as well as precursors to these enzymes, which are not presently assayable. The fats are not removed in the process because they contain important soluble vitamins, minerals and cofactors. Additionally, removal of fat by one of the available methods, for example, alcohol extraction, would degrade the material.

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Serving Size: 1 Capsule

Servings Per Container: 60, 90, or 720

**Amount Per Serving:**

Pancreas gland (Bovine, Ovine or Porcine) 425 mg

Other ingredients: Hydroxypropyl methylcellulose, cellulose, silicon dioxide, L-leucine.

**Suggested Use:** As a dietary supplement, 1 capsule three times daily taken ½ to 1 hour before each meal, or as directed by a healthcare practitioner.

**Note:** Pancreas Natural Glandular products from lamb, pork and beef can be used in a dietary rotation plan by those who are highly sensitive.

**Caution:** Glandulars should be avoided by pregnant women, nursing mothers and children.

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**References**

Gonzalez NJ, Isaacs LL. Evaluation of pancreatic proteolytic enzyme treatment of adenocarcinoma of the pancreas, with nutrition and detoxification support. *Nutr Cancer* 1999;33(2):117-24.

Layer P, Keller J, Lamnkisch aP. Pancreatic enzyme replacement therapy. *Curr Gastroenterol Rep* 2001 Apr;3(2):101-8.

Schibli S, Durie PR, Tullis ED. Proper usage of pancreatic enzymes. *Curr Opin Pulm Med* 2002 Nov;8(6):542-6.



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