SUPPORT FOR ENHANCED DIGESTIVE COMFORT & FUNCTION

Pancreatin Select™ provides synergistic support for enhanced digestion with meaningful levels of HCl plus gastric acid precursors, concentrated pepsin and a high quality pancreatic enzyme blend. These ingredients work together to help initiate the breakdown of proteins and bound minerals in the stomach, and to promote healthy digestive comfort and function in both gastric and intestinal environments.

Of the many factors that contribute to compromised digestive capacity, insufficient stomach acid (hypochlorhydria, achlorhydria) and diminished pancreatic enzyme production are two of the most common and widespread (in most people, aging alone is a primary cause of both deficiencies). Both achlorhydria and pancreatic insufficiency are associated not only with impaired digestion but with complications such as malnutrition and small intestinal bacterial overgrowth (SIBO). Supplemental HCl, along with pepsin and pancreatic enzymes, can help boost the body’s natural ability to break down and metabolize food in the critical early stages of digestion following a meal. The ingredients in Pancreatin Select™ have been suggested to help support healthy digestion and nutrient absorption, to inhibit the growth of pathogenic microbes and to improve digestive comfort overall.

BETAINE HCl and GLUTAMIC HCl are sources of hydrochloric acid, a key component of gastric juice. Naturally secreted by parietal cells located in the gastric lining, HCl creates the acidic environment necessary to activate the conversion of pepsinogen into pepsin, initiating protein digestion in the stomach. HCl is also necessary to cleave minerals from their substrate and to kill foodborne microorganisms. Hypochlorhydria, typically marked by symptoms of indigestion, gas and bloating, impairs protein digestion and leads to imbalances of gut microflora, pathogenic microbial overgrowth and assorted micronutrient deficiencies—notably of calcium, iron, B6, B12 and folic acid.

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Hydrochloric acid is a powerful solvent (one of only six strong acids on Earth) and must be bonded to a carrier molecule such as betaine, a methyl donor, or the amino acid glutamine for use in supplements. Betaine HCl is the most widely used form of supplemental hydrochloric acid, whereas glutamic HCl has been reported to be gentler on the stomach. Both work together in Pancreatin Select™ to offer synergistic support for a healthy gastric pH.

PANCREATIN 4X is a concentrated blend of pancreatic proteases, lipases and amylases intended to help facilitate the breakdown of proteins, fats, and carbohydrates, respectively. Supplemental pancreatic enzymes help to offset reduced enzymatic output by the exocrine pancreas, an organ which is strained by modern diets high in processed foods and low in enzyme-rich raw and fermented foods. Diets high in sugars and starches similarly overstress the endocrine pancreas, which must constantly produce hormones needed to balance blood glucose levels. Pancreatic insufficiency, common in celiac disease and other digestive disorders, is a major cause of nutrient malabsorption. Taking pancreatic enzymes augments the body's natural output, promoting the thorough breakdown of nutritional components in chyme entering the duodenum. For patients with pancreatic insufficiency, weak digestion or food sensitivities, supplementation with pancreatic enzymes can help enhance nutrient uptake as well as gastrointestinal comfort. The pancreatin 4X concentrate used in Pancreatin Select™ is derived from a French porcine source.

PEPSIN is a proteolytic gastric enzyme activated in the low pH environment generated by the release of HCl. Pepsin is responsible for the hydrolysis of proteins into peptides, increasing the amount of molecular surface area accessible to pancreatic proteases and enabling complete digestion. Pepsin and HCl play a further role in gut-mediated immune defense, protecting the body from pathogenic microbes that enter the body via oral ingestion.

AMMONIUM CHLORIDE is a classical acidulant and a source of chloride ions that helps support HCl activity.

VITAMIN B6 (pyridoxine) is a required cofactor in the production of hydrochloric acid and provides essential support for protein and amino acid metabolism.

REFERENCES

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