

New Relief for those suffering from Inflammatory Bowel disease (IBD).

Recently Health Canada has issued a Natural Health Product (NPN) license to **Vitex Nutrition Ltd.** for its product **C-Nag** for managing the symptoms of Inflammatory Bowel Disease. **C-Nag** is a proprietary formula containing N, Acetyl glucosamine and vitamin C.

Inflammatory Bowel disease refers to a number of digestive tract disorders which includes Crohn's disease, ulcerative colitis and irritable bowel syndrome. Crohn's disease, also known as ileitis or regional enteritis, is a chronic inflammatory disease of the digestive tract. Symptoms include abdominal pain and diarrhea, sometimes bloody, caused by inflammation of the intestines. Crohn's disease usually affects the lower part of the small intestine, which is called the ileum. The disease, though, can occur in any part of the gastrointestinal system. Thus, the disorder may affect the large or small intestine, the stomach, the esophagus, or even the mouth. Crohn's can occur at any age. It is most commonly diagnosed in people who are between the ages of 20 and 30. In Canada approximately 170,000 people are being treated for this condition.

How can C-Nag help? In IBD the mucus lining of the gastric intestinal tract (GI) becomes thinner and eventually becomes perforated leading to inflammation. This mucus lining of the GI tract serves mainly as a lubricating and insulating barrier to contain the stomach contents and to allow easy passage of the partly digested food bolus to reach the small intestine and to further facilitate easy passage of the stool through the bowel. This mucus lining is composed mainly of N,acetyl glucosamine, and a healthy body can manufacture adequate amounts of **NAG** to keep pace with the body's demand for this critical structural component.

Normally, the mucosal cells of the digestive tract have a high turnover rate, so that the whole layer of surface cells may be renewed in 3-4 days. In IBD the tissues are damaged by the disease and need repair. This poses extra demands on biosynthetic processes and the body cannot make enough **NAG** to keep pace with the increased demand: In these cases supplemental **NAG** can prove helpful to allow the body to adequately repair the digestive tract lining. And the good news is that **NAG** is entirely harmless: **NAG** is stable, neutral, tasteless, freely water soluble and is readily absorbed from the intestines.

NAG is also plays a role in autoimmune diseases such as multiple sclerosis, type 1 diabetes, rheumatoid arthritis and Nephrotic syndrome as all of these conditions are related to amino sugar abnormalities.

Autoimmune diseases are triggered when receptors on the outside of immune cells called T-helper 1 (Th1) cells start binding "self" antigens rather than pieces of invaders. **NAG** decreases the amount of "binding" which suppresses the autoimmune response.

NAG is not available from our diet, and if taken directly into the stomach in conventional capsules or tablets, stomach acids quickly decompose it into simple glucose. To overcome this problem, **Vitex** incorporates a revolutionary new technology called **DRcaps**, which resist the acid environment of the stomach and delivers **NAG** directly to the small intestine, where it is rapidly absorbed.

Finally **C-NAG**, a natural substance which is part of every cell is now available in a safe, low cost supplement to help relieve the pain and discomfort associated with IBD.

For more information contact www.VitexNutrition.com