The Possible Benefits of NanoTek Chitosan, a Dietary Supplement

- May support enhanced detoxification of Herxheimer's reactions*
- Promotes the growth of most species of friendly bifidobacteria and lactobacilli
- Helps prevent lipid peroxidation, and promotes the activity of antioxidant enzymes*
- Potentially protects against toxins, including mercury, carbon tetrachloride, and dioxins*
- Potentially provides support for normal blood sugar regulation*
- May have immunostimulative effects*

Description

NanoTek Chitosan contains chitosan oligosaccharides as well as a small amount of chitosan. Chitosan oligosaccharide has a much smaller molecular size than chitosan, and can absorb into the bloodstream. Both are derived from chitin, which is found in the exoskeletons of crustaceans such as shrimp, lobster or crab.

Chitosan is an aminopolysaccharide that is chemically similar to cellulose. Chitosan oligosaccharides (CO) are manufactured from chitosan by an enzymatic process, resulting in a much smaller molecular size that is more easily absorbed by the body. Chitosan itself is more of a fiber and contributes to detoxification in the GI tract, whereas CO supports detoxification in blood and other tissues.*

In a small clinical trial of people being treated for Borrelia and experiencing Herxheimer's reactions, NanoTek Chitosan improved Herxheimer's symptoms by the end of one week.* In subjects with pain, 100% reported significant improvement (in half of these, the pain completely resolved), and of those with sleep disturbances, 75% reported sleeping more deeply and waking up more well rested.*

The research on chitosan oligosaccharides is extensive, and shows it has great potential to benefit health. Chitosan oligosaccharides can promote the growth of friendly bifidobacteria and lactobacillus. Unlike fructooligosaccharides (FOS), which promote the growth of only three probiotic strains, chitosan oligosaccharide supports almost all bifido- and lactobacillus species.

Chitosan oligosaccharide has been shown to protect the liver from damage by carbon tetrachloride in mice, and to protect against mercury toxicity.* It can promote the activity of antioxidant enzymes and help prevent lipid peroxidation, helping to protect mice poisoned with dioxin. It has also shown potential to support microbial balancing and other immune functions, and may help support normal blood sugar levels.*

Investigated and utilized for many years by Akira Matsunaga, M.D., Ph.D., chitosan

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itself is considered a superior health substance in Japan, because it has a broad effect on all of the body’s systems. Dr. Matsunaga found that it strengthened those who were weak, made healthy patients healthier, and improved common daily complaints and the quality of life.* He found that chitosan did not target only one organ, but effectively supported the functioning of all of the body’s systems and organs.*


Both chitosan and chitosan oligosaccharide are extremely safe. Even at a chitosan oligosaccharide intake of 2000 mg/kg in rats, which extrapolates to more than 135,000 mg per day for an average-weight adult human, researchers could not find a potential adverse effect or toxicity.

Serving Size: 2 Vegetarian Capsules
Servings Per Container: 30

Amount Per Serving:
Proprietary Blend

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<thead>
<tr>
<th>Amount</th>
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<tr>
<td>Chitosan Oligosaccharide and Chitosan (shrimp, crab, lobster)</td>
<td>1200</td>
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Other ingredients: Hydroxypropyl methylcellulose, cellulose, L-leucine.

Suggested Use: As a dietary supplement, 1 capsule three times daily or 2 capsules two times daily on an empty stomach, or as directed by a healthcare practitioner.

WARNING: Avoid this product if you are allergic to shellfish, pregnant or lactating. If used long-term, additional supplementation with fat soluble vitamins and essential fatty acids is recommended.

References

Lee HW, Park YS, Jung JS, Shin WS. Chitosan oligosaccharides, dp 2-8, have prebiotic effect on the Bifidobacterium bifidum and Lactobacillus sp. Anaerobe. 2002 Dec;8(6):319-24.
Shon YH, Park IK, Moon JS, Chang HW, Park IK, Nam KS.

Unpublished study, Steven W. Hines N.D., N.E., Hope Clinics International.

Allergy Research Group®
2300 North Loop Road, Alameda, CA 94502
Phone: 800-545-9960 or 510-263-2000
Fax: 800-688-7426 or 510-263-2100
www.AllergyResearchGroup.com

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