



PRODUCT INFORMATION SHEET

Beta glucans are polysaccharides that occur in many plants – including certain types of fungi and baker's yeast. These beta glucans can, among other things, vary in terms of backbone structure, molecular mass, and solubility. Any slight variation in molecule characteristics may affect the bioactivity and the health promoting effects.

Fluxome® Beta Glucan

Fluxome® Beta Glucan is a nutraceutical blend consisting of natural beta glucans produced by fermentation.

The active component in Fluxome® Beta Glucan is beta (1,3-1,6) –D-glucan, which implies that the beta glucans are characterized by a glycosidic beta-1,3: beta-1,6 linkage. This type of beta glucan is also known as *Lentinan* and has a long history of use in dietary supplements.

Fluxome® Beta Glucan has been clinically proven to enhance the immune system in a large number of studies (see box).

Unique product characteristics

Any damage to the beta glucan molecule significantly lowers its ability to activate the immune systems of humans.

The unique fermentation technology and production platform of Fluxome® Beta Glucan enables the delivery of active beta glucans, in which the triple helix structure has been protected from damage usually caused by chemical process steps such as solvent extraction. Fluxome offers a completely consistent product, which is produced in a closed environment without the risk of contamination from heavy metals, pesticides and other undesired elements.

Fluxome® Beta Glucan contains completely intact beta glucans with the capacity to increase effect levels considerably.

Fluxome's product consequently has a guaranteed immune stimulating effect, when consumed in accordance with the recommended dosage.

Dosage and application

All studies conducted with Fluxome® Beta Glucan indicate that the oral intake of a recommended dosage of 1 g of the product per day provides the optimal immune enhancing effect. A daily dosage contains 1 mg of pure bioactive material.

Fluxome® Beta Glucan is supplied in a blended powder form for inclusion in dietary supplement formulations. The product is a ready-to-use blend directly applicable in tablets, capsules and nutritional powders.

Clinical documentation

Human clinical studies

- Absorption study
 - Fluxome® Beta Glucan is absorbed in the blood when consumed orally.
- Double blind, placebo controlled study
 - Fluxome® Beta Glucan stimulates B-cell proliferation, and is thus immune stimulating
- Double blind, placebo controlled study
 - Fluxome® Beta Glucan improves quality of life, even for healthy individuals.
- Open labeled, single group, in-home study
 - Fluxome® Beta Glucan improves quality of life for fatigued individuals.
- Human ex-vivo studies
 - Fluxome® Beta Glucan contains beta glucans with intact triple helical form, and thus exhibits a genuine immune response.

Cellular in vitro systems

- Fluxome® Beta Glucan showed immune response in typical mice cell line systems, which was much higher than that of other commercial beta glucan products.

Animal studies

- Fluxome® Beta Glucan leads to immune stimulation and B-cell production both in mice and rats.