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## **FLUXOME® EPA – PURE AND SUSTAINABLE VEGETARIAN OMEGA-3 OIL**

Polyunsaturated fatty acids (PUFA) have been known and recognized by health professionals for several years for their benefits throughout all phases of life. Fluxome has developed a process for production of PUFA by a highly efficient metabolic strain of *Saccharomyces cerevisiae*. Fluxome is today the global leader within development and production through the use of novel bioprocesses. Our first pure PUFA ingredient for the global supplements and functional foods market is Eicosapentanoic acid (EPA) concentrate. Fluxome® EPA is free of any other long-chain PUFA.

The most well-documented long chain PUFA are Eicosapentanoic Acid (EPA), Docosahexaenoic acid (DHA) and Arachidonic acid (ARA). An abundant number of clinical studies have shown PUFA to offer a range of health benefits from the relief in joint and bone conditions such as osteoarthritis to controlling the development of tumors and reducing respiratory disorders. Studies have also shown that the regular consumption of PUFA may reduce appetite and help reduce the accumulation of fat, especially around the abdominal region.

Fluxome recognized the need for development of a safe and secure source of vegetarian PUFA based on a sustainable and price competitive technology. Now, when fish stocks are under pressure globally – and some studies even predict the collapse of commercially exploited fish stocks – Fluxome is proud to pre-sent commercially viable alternative to fish derived EPA oil. With our pure EPA, do our part in easing the pressure on fish stocks, while accommodating the market need for a commercially workable ingredient.

There are very few sources of EPA in the Western diet to begin with, and the declining consumption of dietary sources such as fatty fish and animal organ meats has resulted in the average diet being low in EPA. Some groups, such as vegetarians, have lower blood levels of EPA due to its absence in foods of plant origin. The most convenient way to get the recommended daily dosage is through a focused diet or supplements. However, one of the limiting factors to increasing EPA through increasing fatty fish intake has been the unwanted toxins and pollutants found in fish oil. Sustainable, environmentally friendly Fluxome® EPA is free of toxins and contaminants. Fluxome® EPA is also an option for the vegetarians and people whom are allergic to the fish proteins as it is free from animal products.

An increasing body of evidence indicates that consumption of EPA helps people maintain good mental health, avoid mood swings and mild depression. EPA also has a cardiovascular protection effect as it may reduce the risk of heart disease by reducing platelet aggregation.

Omega-3 supplements continue to grow in popularity year after year. With the dietary deficiency of essential fatty acids, consumers are turning to supplements to balance their diet and, with the renewable and abundant Fluxome® EPA, it is possible to persuade consumers to increase their intake and thus help them to balance their diet.

Fluxome® EPA is truly a product for the 'heart and mind' and a key component in the human diet.