

ICAR- CIFTEQ® PUFA concentrate-: For Cardio Vascular Wellbeing

Salient features

- Dietary marine ω -3 PUFA intake leads to low incidence of ischemic heart disease
- There is an inverse relation between PUFA intake and mortality from coronary heart disease
- Also capable of attenuating COVID-19 related pulmonary and cardiovascular complications
- Maintains the cardiovascular functions
- Reduces circulating cholesterol levels

Advantages

- ✓ Plays a vital role in human diet by altering physiological functions
- ✓ Development of fetal brain and visual development
- ✓ Delays the loss of immunologic functions
- ✓ Increases the strength of teeth and bones



Process

Dr. R. Anandan, Dr. Suseela Mathew

Technology /

Biochemistry and Nutrition Division

Product

ICAR-Central Institute of Fisheries Technology, Cochin

developed by

kranandan@rediffmail.com

Year

2011

*Source of
funding*

*More
information*

ICAR

Status of commercialization: Commercialized

Anandan, R., Mathew, S., Sankar, T.V., Viswanathan Nair, P.G. 2007. Protective effect of n-polyunsaturated fatty acids concentrate on isoproterenol-induced myocardial infarction in rats. *Prostaglandins Leukot Essent Fatty Acids*.76 (3):153-8.

Dhandapani, N., Ganesan, B., Anandan, R., Jeyakumar, R., Rajaprabhu, D., Ezhilan, R.A. 2007. Synergistic effects of squalene and polyunsaturated fatty acid concentrate on lipid peroxidation and antioxidant status in isoprenaline-induced myocardial infarction in rats. *African Journal of Biotechnology*.; 6: 1021-1027

Obulesu, T., Mathew, S., Lakshmanan, P. T., Krishna, G., Lakra, W. S., Anandan, R. 2014. Salubrious Effects of Dietary Supplementation of Squalene and n-3 Polyunsaturated Fatty Acid Concentrate on Mitochondrial Function in Young and Aged Rats. *Fishery Technology*; 51:98-101

Chatterjee, N.S., Singh, A., Vishnu, K.V., Ajeeshkumar, K.K., Anandan, R., Kumar A.K., Mathew, S. 2020. Authentication of Two Bio-Active Fish Oils by Qualitative Lipid Profiling Using Semi-Targeted Approach: An Exploratory Study. *J AOAC Int*. Jan 1; 103(1):78-82.

Mohanty, B.P., Ganguly, S., Mahanty, A., Sankar, T.V., Anandan, R., Chakraborty, K., Paul, B.N., Sarma, D., Dayal S.J., Venkateshwarlu, G., Mathew, S., Asha, K.K., Karunakaran, D., Mitra, T., Chanda, S., Shahi, N., Das, P., Das, P., Akhtar, M.S., Vijayagopal, P., Sridhar, N. 2016. DHA and EPA Content and Fatty Acid Profile of 39 Food Fishes from India. *Biomed Res Int*. 2016:4027437.

Anandan, R., Jacob, M.R., Fazil, T.S., Ravishankar, C.N. and Mathew, S., 2021. Is Marine ω -3 Long Chain Polyunsaturated Fatty Acids Intake, Natural Remedial Measure for Combating Global COVID-19 Pandemic?: A Mini-Review. *SSR Inst. Int. J. Life Sci*.7:2749-2753

Technology transferred to: M/s. Kokkarako Poultry farm, Palakkad. and KVK, Ernakulum