



Product information

Food
ingredient

Marine Lactic Acid Bacteria™ (ML)

Product Summary

Marine Lactic Acid Bacteria is a food ingredient made from sterilized powder of lactic acid bacteria (*Lactococcus lactis* subsp. *lactis* BF3) isolated from the intestinal tract of male salmon.

Obtained Halal and Kosher certification.

Safety data

- Acute oral toxicity test
- Reverse mutation test

Efficacy data

- Acid resistance, bile resistance, salt resistance
- Antioxidant property (protective effect against cytotoxicity of hydrogen peroxide)
- Macrophage immune activation effect, anti-inflammatory effect
- Effects on the intestinal flora of mice fed a high-fat diet

Patents

- Lactic acid bacteria (Patent No. 5697788: Japan)
- Intestinal flora improving agent (Patent No. 6152231: Japan)
- Intestinal flora improver containing lactic acid bacteria (Patent No. 6902767: Japan)

■ Paper

- *In vitro* evaluation of the fermentative, antioxidant, and anti-inflammation properties of *Lactococcus lactis* subsp. *lactis* BF3 and *Leuconostoc mesenteroides* subsp. *mesenteroides* BF7 isolated from *Oncorhynchus keta* intestines in Rausu, Japan.
JOURNAL OF FUNCTIONAL FOODS 11:269–277 (2014)
- Protective effects of heat-killed *Lactococcus lactis* subsp. *lactis* BF3, isolated from the intestine of chum salmon, in a murine model of DSS-induced inflammatory bowel disease.
Bioscience of Microbiota, Food and Health 35(3):137–140 (2016)

■ Conference presentation

- Properties of lactic acid bacteria derived from the intestinal tract of chum salmon caught in Rausu
The 2014 autumn meeting of the Japanese Society of Fisheries Science
- Preventive effect of *Lactococcus lactis* subsp. *lactis* BF3 derived from the intestinal tract of Rausu chum salmon on DSS-induced IBD mice
The 2015 autumn meeting of the Japanese Society of Fisheries Science

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