

No. 1410

Study on a Bacterium Which Could Emulsify and Assimilate Petroleum

NOBUYOSHI NAKAJIMA¹, KOHJI ISHIHARA²

¹Department of Nutritional Science, Faculty of Health and Welfare Science, Okayama Prefectural University

²Department of Life Science, Faculty of Science, Okayama University of Science

Summary

A marine bacterium, which could grow in the condition of higher concentration of sodium chloride (~20%), was isolated from the subtropical-sea water in Japan. The gram-positive-rod bacterium had an ability to emulsify and assimilate petroleum in the medium anaerobically. It was considered that the bacterium had produced the potent biosurfactant and was resemble to be *Oceanobacillus iheyensis*.