



Available Issues Ja	<u>panese</u>			
Author:	ADVAN	NCED	Volume	Page
Keyword:	Sear	Search		
	Add to Favorite/Citation Articles Alerts	Ą	Add to Favorite Publication	ıs É

<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

Food Science and Technology International, Tokyo

Vol. 3 (1997), No. 2 pp.134-144

[PDF (2677K)] [J

Microstructure of Fish Meat Emulsion with Addition

Teruo NAKAYAMA¹⁾ and Hiroko TOMITA¹⁾

1) Faculty of Bioresources, Mie University

(Received: September 3, 1996)

Fish meat emulsion was prepared from egg-yolk, very low-lipid sa prepared through grinding or suspending in weak alkaline solution). The microstructures of the oil droplet surface and myofibrillar matri Polytron homogenization, the myofibrils were shattered to a much s meat emulsion, according to the original smaller fragment size. The formed by the myofilaments spread apart from the shattered myofib emulsion. The mesh size of this structure was smaller in the ground-the suspended-meat one and corresponded to the oil droplet size. emulsion, the oil droplet size was smaller at oil ratio 1.1 to sardine

1.6. In the non-fish conventional emulsion, the viscosity increase didroplets to the egg-yolk matrix was not sufficient to prevent irreversinduced by coalescence. In fish meat emulsion, the network structure showed a remarkable increase in viscosity and held the oil droplets application of high shear rates to prevent the coalescence and exhilt thixotropy.

Keywords: fish meat emulsion, microstructure, egg-yolk, oil drople



Downlo

To cite this article:

Teruo NAKAYAMA and Hiroko TOMITA, **Microstructure of Addition of Egg-Yolk** *FSTI*. Vol. **3**, 134-144. (1997) .

doi:10.3136/fsti9596t9798.3.134