

[Available Issues](#) | [Japanese](#)>> [Publisher Site](#)
 Author: [ADVANCED](#) | Volume Page
 Keyword: |

[TOP](#) > [Available Issues](#) > [Table of Contents](#) > Abstract

ONLINE ISSN : 1881-3984

PRINT ISSN : 1344-6606

Food Science and Technology Research

Vol. 7 (2001) , No. 4 pp.300-302

[\[PDF \(123K\)\]](#) [\[References\]](#)
Preparation of W/O/W Emulsions at Low Emulsifier Concentrations
[Yuri HASEGAWA](#)¹⁾, [Hanaho IMAOKA](#)¹⁾, [Shuji ADACHI](#)¹⁾ and [Ryuichi MATSUNO](#)¹⁾
1) Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University

(Received: March 7, 2001)

(Accepted: August 1, 2001)

W/O/W emulsions were prepared using low concentrations of emulsifiers in the oily and outer aqueous phases, and the formation of the emulsions were evaluated by the encapsulation efficiency of a fluorescent marker in the inner aqueous phase. W/O/W emulsions were produced even at low emulsifier concentrations, although the standard deviation of the encapsulation efficiency immediately after preparation became larger as the emulsifier concentration decreased. Long-term stability of the emulsions with no emulsifier was unsatisfactory, although emulsions with a lipophilic emulsifier only in the oily phase were stable for 30 days with a decrease in the encapsulation efficiency of less than around 5%. Emulsifier species also significantly affected the formation of W/O/W emulsions.

Keywords: [W/O/W emulsion](#), [low emulsifier concentration](#), [encapsulation efficiency](#)
[\[PDF \(123K\)\]](#) [\[References\]](#)
Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

To cite this article:

Preparation of W/O/W Emulsions at Low Emulsifier Concentrations Yuri HASEGAWA, Hanaho IMAOKA, Shuji ADACHI and Ryuichi MATSUNO, *FSTR*. Vol. 7, 300-302. (2001) .

doi:10.3136/fstr.7.300

JOI JST.JSTAGE/fstr/7.300

Copyright (c) 2007 by Japanese Society for Food Science and Technology



[Japan Science and Technology Information Aggregator, Electronic](#)

