Journal of Author: Keyword(s): Dairy Science® Go HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS Year: Vol: Page: Journal of Dairy Science Vol. 76 No. 10 2878-2885 © 1993 by American Dairy Science Association ® This Article Microencapsulating Properties of Whey Full Text (PDF) Proteins. 2. Combination of Whey Proteins Alert me when this article is cited Alert me if a correction is posted with Carbohydrates Services Similar articles in this journal S. L. Young 1 , X. Sarda 1 , and M. Rosenberg 1 Alert me to new issues of the journal Download to citation manager ¹ Department of Food Science and Technology, University of California, Davis, C Get Permissions Davis 95616-8598 Citing Articles Anhydrous milk fat was effectively microencapsulated by spray drying Citing Articles via HighWire in wall systems consisting of combinations of whey protein with with Citing Articles via Google Scholar carbohydrates lacking surface-active properties. Whey proteins were effective emulsifiers in the presence of these carbohydrates and Articles by Young, S. L. enabled microencapsulation even at a concentration of 5% (wt/wt), Articles by Rosenberg, M. respectively. All combinations of whey proteins and carbohydrates gave Search for Related Content microencapsulation yields higher than 96%. The carbohydrates limited PubMed the extractability of the core by a solvent. Microencapsulation Articles by Young, S. L.

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efficiencies were up to 93% when whey proteins were partially replaced by carbohydrates. The microencapsulating properties of wall solutions

of whey proteins and commercial encapsulating agents consisting of carbohydrates were superior to those of only the carbohydrates. In all cases, spherical capsules were obtained in which the milk fat was physically well isolated from the environment. Combinations of whey proteins and carbohydrates were effective and functional microencapsulating agents.

Key Words: anhydrous milk fat • carbohydrates • microencapsulation • whey proteins

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