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Food Science and Technology International, Tokyo

Vol. 1 (1995), No. 1 pp.58-64

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Freeze-Drying of Soybean Protein Solution Containi Effects of Freezing Conditions on Drying Rate

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Solutions of soybean protein with and without added oil were freez measured drying-rate was analyzed using the uniformly retreating is obtain the coefficient of vapor permeability, K. The drying-rate was the solution was frozen without supercooling, and the vapor permea proportional to the cooling rate. An uncontrollable supercooling oc cooling rate resulting in a texture for the frozen sample along with a The addition of oil induced a relatively uniform ice structure throug drying rate was low but almost remained constant until about 90% was freeze-dried. The relationship between the supercooling and th confirmed by the temperature distribution in the drying sample and of the dried sample.

Keywords: freeze-drying, supercooling, drying rate, vapor permea ice structure

[PDF (2072K)] [References]

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To cite this article:

Teruhiko HOSHINO and Kozo NAKAMURA, **Freeze-Drying Solution Containing Added Oil: Effects of Freezing Condition** Vol. 1, 58-64. (1995).

doi:10.3136/fsti9596t9798.1.58