

Food Science	e and Technology I FSTI	International, Tok
Available Issues Japan	lese	
Author:	ADVANC	ED Volume Page
Keyword:	Search	
	Add to Favorite/Citation Articles Alerts	Add to Favorite Publications

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

Food Science and Technology International, Tokyo

Vol. 2 (1996), No. 4 pp.258-264

Effects of Low Pressure Storage on Various Taste C Substances and Hardness of Ume Fruit

<u>Kentaro KANEKO¹</u>, <u>Chikao OTOGURO²</u>, <u>Sachiko ODAKE³</u>, <u>Kuniko AIDA¹</u>

1) Laboratory of Food Science, Koriyama Women's Junior Col.

- 2) Yamanashi Industrial Technology Center
- 3) Faculty of Living Science, Yamanashi Women's Junior Colle,

(Received: June 17, 1996)

After treatment with about 200 ppm hypochlorite solution, ume fru *Prunus mume* Sieb. et Zucc.) was soaked in water, 5% NaCl or lactate or ashed kelp as a hardener. The fruit was stored at a press After 6 months, we analyzed the organic acids, free sugars (sugars) (amino acids), inorganic cations and pectic substances in the ume f the hardness, and the yeasts and lactic acid bacteria were examined were obtained: (1) Yeasts and lactic acid bacteria were not detecte

a hardener obviously softened. Though ume fruit with a hardener ge hardness, the fruit stored in water decreased slightly more than tha NaCl. (3) Ume fruit with Ca lactate contained lactic acid produced lactate to Ca ion and lactic acid. However, organic acids in ume fru decomposed during storage. (4) Though sucrose was resolved to g sugars in ume fruit decomposed to any compound except the sugar acid in fresh ume fruit was asparagine which represented 93.3% of The ratio of asparagine in stored ume fruit was almost the same as t addition, amino acids in ume fruit were considered not to decompc Because the Ca content in the alcohol-insoluble substances prepare Ca lactate or ashed kelp increased, Ca in both hardeners was thou components such as pectic substances. (7) With storage, ume fruit 0.05 N hydrochloric acid-soluble pectin (HSP) to total pectin and soluble-pectin (WSP) ratio. Though the HSP in ume fruit with Ca the degree of decrease was less than that of the fruit without a hard WSP ratio did not increase. Furthermore, ume fruit with ashed kell in HSP ratio than the fruit with Ca lactate, and the WSP was less th From these results, it was found that under low pressure storage, the resolved to glucose and fructose, the taste components in ume fruit Furthermore, it was found that ashed kelp has an ability about equa maintain the hardness of ume fruit during storage. However, it was mechanism for maintaining hardness might differ each case.

Keywords: <u>ume fruit</u>, <u>low pressure</u>, <u>amino acids</u>, <u>sugars</u>, <u>organic a</u> <u>hardness</u>

[PDF (780K)] [References]

Downlo

To cite this article:

Kentaro KANEKO, Chikao OTOGURO, Sachiko ODAKE, Kyc AIDA, Effects of Low Pressure Storage on Various Taste Co Substances and Hardness of Ume Fruit *FSTI*. Vol. 2, 258-264