

Agricultural Journals

Czech Journal of FOOD SCIENCES

home page about us contact

Table of	
Contents	

us

IN PRESS

CJFS 2014

CJFS 2013

CJFS 2012

CJFS 2011

CJFS 2010

CJFS 2009

CJFS 2008

CJFS 2007

CJFS 2006 CJFS 2005

CJFS 2003

CJFS 2004

CJFS 2002

CJFS 2001

CJFS Home

Editorial Board

For Authors

- Authors
 Declaration
- Instruction to Authors
- Guide for Authors
- Copyright Statement
- Submission

For Reviewers

- Guide for Reviewers
- Reviewers
 Login

Subscription

Czech J. Food Sci. Cao R., Xue Ch.-H., Liu Q., Xue Y.:

chemical, and sensory assessment of Pacific oysters (*Crassostrea* gigas) stored at different temperatures

Czech J. Food Sci., 27 (2009): 102-108

The changes were studied in microbiological, chemical, and sensory properties of Pacific oysters stored at 10° C, 5° C, and 0° C. Pseudomonas (22%) and Vibrionaceae (20%) species were dominant in raw oysters. The dominant bacteria found in the spoiled samples were *Pseudomonas* regardless of the storage temperature. During storage, rapid increases in aerobic plate count (APC) values of the samples stored at 10° C and 5° C were observed, while no obvious lag phases were detected. With the samples stored at 0° C, a decrease in APC value during the first 4 days and a lag phase of about 6 days were observed. The APC values of the samples stored at 10° C, 5° C, and 0°

6, 10, and 18, respectively. All the tested samples stored at different temperatures revealed a slight decrease in pH and a significant increase of total volatile basic nitrogen (TVB-N) during storage. The average TVB-N concentration of about 22.0 mg N/100 g was observed at the end of the shelf-life as determined by APC. Combined with the sensory assessments, the shelf-life of 6– 7, 10– 11, and 17– 18 days for oysters stored at 10° C, 5° C, and 0° C, respectively, was determined.

Keywords:

Pacific oyster; microbial flora; quality assessment; shelf-life

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