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[home](#) [page](#) [about us](#) [contact](#)

[us](#)

Table of Contents

IN PRESS

CJFS 2014

CJFS 2013

CJFS 2012

CJFS 2011

CJFS 2010

CJFS 2009

CJFS 2008

CJFS 2007

CJFS 2006

CJFS 2005

CJFS 2004

CJFS 2003

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.

Tomczyńska-Mleko M.:

Structure and stability

of ion induced whey protein aerated gels

Czech J. Food Sci., 31 (2013): 211-216

The microstructure and stability of aerated whey protein gels were determined. Foamed whey protein gels were obtained using a novel method applying a simultaneous gelation and aeration process. Whey protein gels were produced at different protein concentrations and pH by calcium ion induction at ambient temperature. Two concentrations of calcium ions were used: 20 and 30mM to produce foamed gels with different microstructure. Foamed gels obtained at 30mM Ca^{2+} were composed of thick strands and irregular, large air bubbles. For these gels, larger syneresis and bubble size reduction were observed. Fine-stranded, small bubble size aerated gels obtained at 20mM Ca^{2+} were very stable during storage. Decreased protein concentration and increased pH of the gels resulted in an increased bubble size.

Keywords:

foam; globular protein; microstructure;
syneresis; Turbiscan

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