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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.

Jordáková I., Dobiáš J., Voldich M., Poustka

Determination of vinyl chloride monomer in food contact materials by solid phase microextraction coupled with gas chromatography/mass spectrometry

Czech J. Food Sci., 21 (2003): 13-17

The present study concerns the optimisation of the headspace solid phase microextraction (HS/SPME) combined with gas chromatography/mass spectrometry (GC/MS) for the vinyl chloride monomer determination.

Samples of PVC materials were analysed using the Carboxen/Polydimethylsiloxane (CX/PDMS) 75 μm fibre. For this fibre, the achieved limit of detection was 0.05 $\mu\text{g}/\text{kg}$, and that of quantification 0.17 $\mu\text{g}/\text{kg}$, respectively, with RSD 5%. The levels of VCM found ranged from 0.29 to

0.44 mg/kg, in the case of foil, the VCMI content determined was 3.65 mg/kg which means that the maximal limit allowed was exceeded.

Keywords:

migration; solid phase microextraction (SPME); vinyl chloride monomer

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