



## 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**

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### **Subscription**

# **Czech J. Food Sci.**

**Poustka J., Hajšlová J.,  
Holadová K., Nováková**

# **Potential of liquid chromatography–atmospheric pressure chemical ionisation tandem mass spectrometry for determination of fosetyl-aluminium residues in dried hops**

Czech J. Food Sci., 22 (2004): 24-28

New analytical procedure for the determination of fosetyl-aluminium in hop cones (also called "hops") was developed. Liquid chromatography–atmospheric pressure chemical ionisation tandem mass spectrometry (LC–APCI-MS/MS) allowed a highly selective determination of this fungicide which facilitated the sample preparation. The sufficiently low detection limit (1 mg/kg of dried hops) with the acceptable method

recovery 76%— at the level of 10 mg/kg) complies with the need to inspect the observance of maximal residual limit 100 mg/kg. The application of LC-MS technique thus provided an effective way of fosetyl-aluminium determination in the complex hops matrix.

### **Keywords:**

fosetyl-aluminium; pesticide residues; hops analysis; liquid chromatography; mass spectrometry

[ [fulltext](#) ]

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