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Czech Journal of

**FOOD SCIENCES** 

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**

- AuthorsDeclaration
- Instruction to Authors
- Guide for Authors
- CopyrightStatement
- Submission

### For Reviewers

- Guide for Reviewers
- ReviewersLogin

#### **Subscription**

### Czech J. Food Sci.

E. Zelená, M. Holasová, F. Zelený, V. Novotná, A. Landfeld, M. Houška:
Effect of Sulphur
Fertilisation on
Lycopene Content and
Colour of Tomato
Fruits

Czech J. Food Sci., 27 (2009): S80-S84

The effects of different sulphur (S) fertilisers (ammonium, sodium, potassium and calcium sulphates) in combination with nitrogen (N) on plant growth, yield and quality of fruits were investigated in two dwarf cultivars Proton and Sejk. Single N, applied as ammonium nitrate, stimulated growth of plants and significantly increased yield of fruits, but did not change content of lycopene as well as colour parameters ( $a^*$ ,  $b^*$  and  $L^*$ ) and decreased significantly S content in fruits. All S fertilisers significantly increased S and lycopene content in fruits (up to 39% in cv. Sejk and 92% in cv.

tomato puree, namely parameter *a*\*. The earlier cv. Šejk responded better to S supply than cv. Proton, which showed a negative yield effect esp. on variants where higher S doses were applied. Sodium sulphate undesirably significantly enhanced Na content of fruits in both cultivars.

#### **Keywords:**

tomatoes; lycopene; colour; sulphur; nitrogen; fertilisation

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