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**Influence of pre and post emergence salt treatment on fruit yield and active substances of common pumpkin (Cucurbita pepo convar. pepo var. styriaca)**

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| |  |  | | --- | --- | | **Type** | Article | | **Author(s)** | Omidbaigi, R.; Aroiee, H. | | **Pub. year** | 2001 | | **ISSN** | 0253-7125 | | **In** | Journal of Medicinal and Aromatic Plant Sciences (India), ISSN 0253-7125, v. 23(3) p. 399-403; Sep | | **Notes** | figs, tables, 18 ref.; summary (En) | | **Language** | English | | **Keywords** | drug plants +Cucurbita pepo salt tolerance +sterols oils oilseeds +seeds Cucurbitaceae | | **Acc. number** | 593294 | | **Request info** | KIT Library - Available: KIT(D3594) | | |  | | --- | | **Options**   * [Request item](javascript:window.open('http://biblio.kit.nl/scripts/mwimain.dll/144/catalog_direct/request_form_web_mail/accession_number+593294?sessionsearch','viewWin','resizable=yes,scrollbars=no,toolbar=no,height=600,width=700').focus()) * [Order photocopy](javascript:window.open('http://biblio.kit.nl/scripts/mwimain.dll/144/catalog_direct/biblioweb_copyform/accession_number+593294?sessionsearch','viewWin','resizable=yes,scrollbars=no,toolbar=no,height=800,width=700').focus()) * [New search](http://www.kit.nl/smartsite.shtml?ch=FAB&id=1709)   **Services**   * [Export to Refworks](javascript:window.open('http://biblio.kit.nl/scripts/mwimain.dll/144/catalog_direct/biblio_ris_refworks/accession_number+593294?sessionsearch','viewWin','resizable=yes,scrollbars=no,toolbar=no,height=600,width=700').focus()) | |

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| **Abstract** | Effects of increasing salinity on fruit yield, oil content and beta-sitosterol of common pumpkin were studied. The salt treatments (NaCl in solution: 0, 2.5, 5 and 10 g/l) were applied at pre-emergence (seed sowing) and at post-emergence starting from the 4-leaf stage, and were maintained every 8 days until the fruit set stage. Fruit yield was higher when salt was applied in pre-emergence than in post-emergence treatment. Oil content and amount of beta-sitosterol in the oil were higher when salt was applied at pre-emergence at 5 and 2.5 g/l NaCl, respectively, than in other treatments. The lowest shoot dry weight at fruit set and harvest was recorded in both pre- and post-emergence salt treatments with 10 g/l NaCl. Salt had significant effect on the number of seeds per fruit of pumpkin only in pre-emergence treatment. The highest seed number was recorded on the plots which received 5 g/l NaCl. |

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