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## P181. AMATOXIN AND PHALLOTOXIN CONTENT OF *LEPIOTA CRISTATA*

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Despite *Lepiota cristata* has been known as a nontoxic mushroom species, some researchers have reported that this species contains the amatoxins. In this study, the amatoxin and phallotoxin content of the *Lepiota cristata* growing in Turkey have been analysed.

The amatoxins and phallotoxin levels have been measured using the reversed phase high-performance liquid chromatography system. Toxin analyses were carried out for dried *L. cristata*, which were collected from the forests Kastamonu region of Turkey in 2015, as a whole. The alpha amanitin, beta amanitin, gamma amanitin, phalloidin and phallacidine levels have been analysed.

Detection limits have been determined as 2.5 ng/g for amatoxins and phallotoxins. Amatoxin and phallotoxin levels of the mushroom samples have been under the detection limits.

Some researchers have reported that the mushroom species of *Lepiota cristata* contains the amatoxins and it is lethal mushroom species. Conversely, we have found that in this study, *Lepiota cristata* does not contain any amatoxins or phallotoxins (alpha amanitin, beta amanitin, gamma amanitin, phalloidin and phallacidin). New researches about the how toxin content of the *Lepiota cristata* may be useful in order to understand of toxicity of this species.

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