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STUDY OF MERCURY CONTENT IN EDIBLE MUSHROOMS

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SUMMARY

The influence of time and temperature of mineralisation of mushrooms was studied for mercury determination by cold vapor atomic absorption. Optimal conditions for a complete mercury recuperation were obtained using a mixture of nitric and sulphuric acid (6 ml HNO_3, 4 ml H_2SO_4) in presence of $KMnO_4$ (3 ml of a 0.44 M solution) at 95 °C for 4 h, with 1 g wet sample. The detection limit of method was 3.2 ng/g. These conditions have shown high reproductibility and accuracy.

Key words: mercury, mineralisation, cold vapor atomic absorption, mushrooms

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