METABOLIC ACTIVITY
OF Tuber aestivum/Tuber uncinatum Vittad. MYCELLIUM

Key words: cellulase, laccase, lipase, protease, Tuber aestivum/uncinatum, xylanase

Summary

Truffle have long been appreciated for their culinary value. However, knowledge about their biochemical activity is still insufficient. Therefore, the aim of this study was to preliminarily assess the enzymatic activity of two forms of summer truffle (Tuber aestivum Vittad.). The results showed that studied fungi of the genus truffle (Tuber spp.) – T. aestivum and T. uncinatum secrete extracellular enzymatic proteins with activities of: laccase, protease lipase, cellulase and xylanase. The high activity of the enzyme was observed between 10th and 20th day of truffle cultivation in liquid culture. Higher activity of all tested enzymes was detected in the culture of T. aestivum. Significant differences observed in the level and kind of enzymatic activity might indicate different metabolic activity of studied forms of summer truffle.