

# ABSTRACT

**Autor:** Martina Červenková

**Title:** Biochemical identification of *Enterobacteriaceae* – development and comparison of methods.

Bachelor's thesis

Charles University in Prague, Faculty of Pharmacy in Hradec Králové

**Course of study:** medical laboratory technician

**Objective of the thesis:** The topic of the thesis is to describe and simultaneously compare the most important biochemical methods used for diagnosis of *Enterobacteriaceae*. The emphasis is put mainly on the development and progress in the field of microbiology.

**Key findings:** Biochemical tests are now performed mainly automatically. The advantages of the automated form of diagnosis are simplicity, speed, increased sensitivity and accuracy, and a reduced need for sample quantity. The main disadvantages are incomplete database of microorganisms and the inability to test sensitivity to all antibiotics.

**Conclusion:** Despite the far reaching development of molecular biological methods, biochemical tests still have an important role in the identification of *Enterobacteriaceae*.