Abstract
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Name of diploma thesis: Evaluation of activity of potential antibacterial substances throught the use microdilution broth metod

Background
Aim of this diploma work was research of activity of potential antibacterial substances. Research of antibacterial substances is one of the most important factor in pharmaceutical industry. The main reason is being the never stopping growth of bacterial resistance.

Methods
The microdilution broth metod was used to test the substances. This metod was used because of low difficulty and low cost. All the steps including the final analising was done by hand.

Results
The substances were divided in groups depending their chemical struction. The most effective was the salicylanilide derivates group. The other groups inhibited growth of bacteria very little or were non-functional. In case of every bacterial stems were analised all substances which were effective.

Conclusion
Depending on the results the most sensitive and the most resistant bacterial stem were choosen. The most sensitive reaction on tested substances had bacterial stem Staphylococcus aureus. The Klebsiella pneumoniae stem was reaching the most resistance. Reasons of effectivity or non effectivity af all groups of substances are talked about in discution chapter.