

8 Summary

The aim of my diploma thesis was to purify DNA-binding proteins of *Francisella tularensis* LVS in order to find transcriptional factors potentially involved in its virulence. Purification was performed using either single stranded or double stranded DNA immobilized on cellulose particles. The proteins were identified by means of HPLC system on-line coupled to tandem mass spectrometer ESI QTOF. In addition, concrete information about identified proteins was searched out using free-available prediction algorithms. I successfully identified three *Francisella tularensis* LVS transcriptional factors that are known to be involved in virulence in other pathogenic bacteria.