### Title (English)
**Expression, purification and crystallization of Leader peptidase I from *Escherichia coli***

### Abstract
The secretory pathway, in which proteins are exported from the cytoplasm into the periplasm, is essential for the viability of bacteria. One component in the pathway is leader peptidase I. In this project a truncated leader peptidase I, LepB_V77, from *Escherichia coli, E. coli*, has been expressed and purified. Activity assays have been performed as well as crystallization screens. The protein was purified using immobilised metal affinity chromatography, IMAC. Purification resulted in a pure protein solution with EcLepB_V77 but low yield. Crystals were obtained in several conditions. The activity assay did not result in any reliable data.

### Keywords
Leader peptidase I, LepB, *Escherichia coli*, protein purification, immobilized metal affinity chromatography, crystallization

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