Murein-Hydrolyzing Activity of Flagellin FlaA of *Listeria monocytogenes*

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Abstract

In this preliminary report we show that a 29 kDa surface protein of *Listeria monocytogenes* EGD removed from cells with 4 M LiCl has peptidoglycan (murein) hydrolyzing activity, as revealed by zymographic analysis using *Bacillus subtilis* murein and heat-killed *Micrococcus luteus* cells casted in the gel. Following two-dimensional electrophoresis, the protein was electroblotted to PVDF membrane and its identity (FlaA) was revealed by sequencing. Peptidoglycan hydrolysing activity of FlaA purified by FPLC on Mono-S Sepharose against labelled *Escherichia coli* murein was demonstrated.

Key words: *Listeria monocytogenes*, flagellin, FlaA, motility, autolysin

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