

LC/MS/MS profiling of peptides from *Bacillus subtilis*

Eunjung Lee, Jungmo Young, Choonshik Shin, and Yoongho Lim

Bio/Molecular Informatics Center, Konkuk University

TEL: +82-2-450-3760, FAX: +82-2-453-3761

The first gram-positive bacteria whose genome sequencing was finished is *Bacillus subtilis*¹⁾. *B. subtilis* produces many beneficial compounds and especially it is related with chungkookjang. Until now lots of bio-active compounds produced by *B. subtilis* are known, but there is no report about peptides contained in it. We are interested in the peptides of *B. subtilis*. 32 peptides were identified using tandem MS techniques. To collect peptides, ultra filtration and ammonium sulfate salting went first before MS/MS experiments. The peptide sequences determined by MS data were compared to ExPASy database and analyzed with gene sequence for profiling. We report the peptide profiling result.

Reference

1. F. Kunst, N. Ogasawara, I. Moszer, A. M. Albertini, et al., The complete genome sequence of the Gram-positive bacterium *Bacillus subtilis* (1997), *Nature* 390, 249-256.