

Peptide profiling of *Corynebacterium glutamicum*

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Corynebacterium glutamicum produces many amino acids such as L-lys, L-glu, L-gln, L-orn, L-phe, L-trp, and L-tyr. Because it does not put endotoxin out, it can be used for food-grade¹⁾. In addition, it is known that its metabolic pathways are simpler than that of *E. coli*. However, most proteins in *C. glutamicum* are not found outside. Therefore, we are interested in the peptides produced by *C. glutamicum* which are investigated using LC/MS/MS analysis. Since this microorganism is useful for producing anti-cancer drugs and detergents, the peptide profiling may help us discover novel bio-active materials.

Reference

1. Wittmann C, Kim HM, Heinzle E. Metabolic network analysis of lysine producing *Corynebacterium glutamicum* at a miniaturized scale (2004), *Biotechnol Bioeng*, 87(1), 1-6.