

Production of 1,5-diaminopentane by metabolically engineered *Corynebacterium glutamicum* from renewable feedstock

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Depletion of petroleum resources and environmental problems has been facilitating the production of biomass-driven chemicals and plastics. Among several promising candidates for the synthesis of bioplastics, cadaverine, which is a C5 diamine, attracts scientific and industrial attention since it can be used as a precursor of bio-based nylons. It can be produced from L-lysine by an enzymatic reaction of L-lysine decarboxylase (LDC). In this study, a L-lysine hyper-producing strain of *C. glutamicum* and its recombinant strain were investigated to produce cadaverine from renewable feedstock in bioreactors. Detailed results will be presented in this presentation.