

Production of 5-Aminovaleric acid from metabolically engineered *Corynebacterium glutamicum*

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5-Aminovaleric acid (5AVA) is an important five-carbon platform chemical especially for synthesis of polymers and other industrially valuable chemicals. Employment of *davB* *davA* gene has been successful for enzymatic conversion of L-lysine to 5AVA. *Corynebacterium glutamicum*, an efficient L-lysine producing microorganism, is a highly promising platform to develop of direct fermentative production of 5AVA using L-lysine as a precursor for 5AVA. In this report, metabolic engineering was done in *C. glutamicum* to enhance the fermentative production of 5AVA from glucose. This work was supported by the Technology Development Program to Solve Climate Changes on Systems Metabolic Engineering for Biorefineries from the Ministry of Science and ICT through the National Research Foundation of Korea [NRF-2012M1A2A2026556 and NRF-2012M1A2A2026557]