**Frontiers in Bioengineering and Biotechnology**

**Supplementary Material**

**Transcriptome profiles of high-lysine adaptation reveal insights into osmotic stress response in *Corynebacterium glutamicum***

Jian Wang1, Jian Yang1, Guoxin Shi1, Weidong Li1, Yun Ju2, Liang Wei3, Jun Liu3,4, Ning Xu3,4\*

1 College of Biological and Agricultural Engineering, Jilin University, Changchun 130022, China,

2 School of Food Engineering and Biotechnology, Tianjin University of Science and Technology, Tianjin 300457, P. R. China.

3 Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, Tianjin 300308, China,

4 Key Laboratory of Systems Microbial Biotechnology, Chinese Academy of Sciences, Tianjin 300308, China

Running title: Transcriptome profiles for high-lysine stress response in *C. glutamicum*

\* Corresponding authors:

[xu\_n@tib.cas.cn](mailto:xu_n@tib.cas.cn)



Figure S1. Effects of proline or arginine addition on protecting cells against high-lysine stress. 160 g/L lysine was used to mimic osmotic stress that occurs during the fermentation process.