Supporting Information

Characterization of a regulator *pgsR* on endogenous plasmid p2Sip and its complementation for poly-(γ-glutamic acid) accumulation in *Bacillus amyloliquefaciens*

Yibin Qiu, [†,§] **Yifan Zhu,** [†,§] **Yatao Zhang,** [†,§] **Yuanyuan Sha,** [†,§] **Zongqi Xu,** [†,§] **Sha Li,** [†,§] **Xiaohai Feng,** [†,§] **Hong Xu** [*,†,§]

[†] *State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing 211816, China*

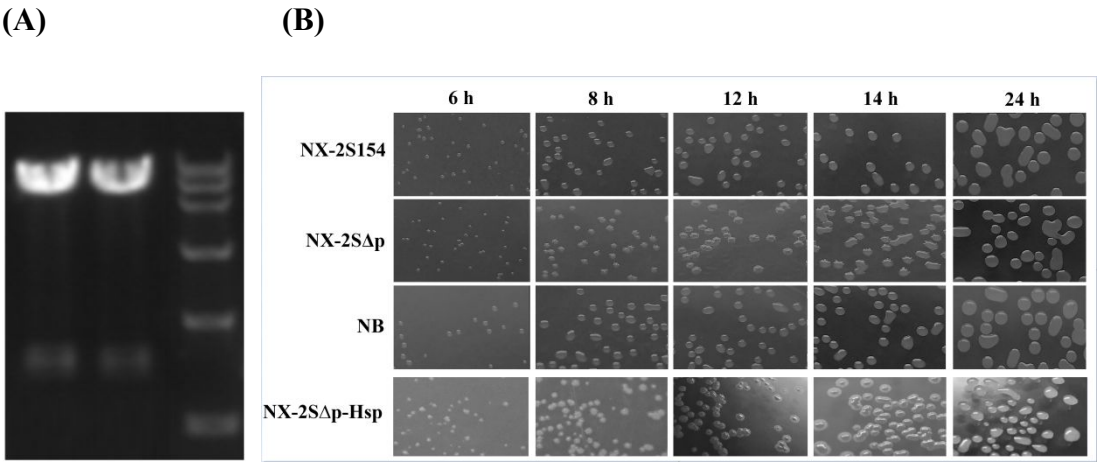
[§] *College of Food Science and Light Industry, Nanjing Tech University, Nanjing 211816, China*

* Corresponding Author at Nanjing Tech University, Nanjing 211816, China

Tel/Fax: +86-25-58139433

E-mail address: xuh@njtech.edu.cn (Hong Xu)

Figures



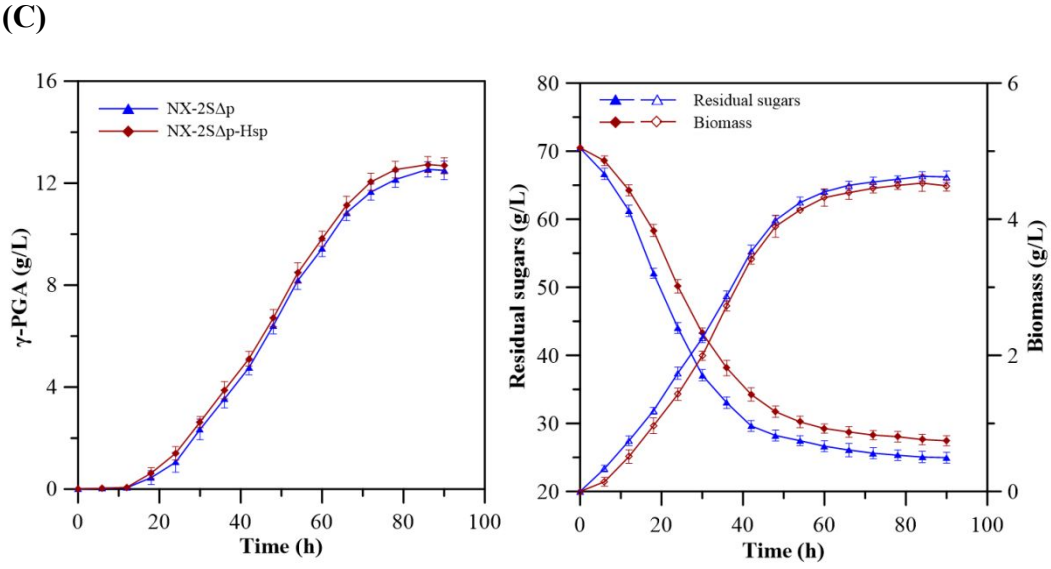


Figure S1. Functional analysis of *hsp* expression on γ-PGA synthesis in NX-2SΔp. (A) Restriction analysis of recombinant plasmid pNX-*hsp*. Lanes 1 and 2: pNX-*hsp* digested with SpeI and NotI; (B) γ-PGA colony morphologies of the different derivatives. NX-2S154, the parent strain; NX-2SΔp, the plasmid-cured strain; NB, the *pgsR* cassette harbored strain;NX-2SΔp-Hsp, Overexpression of the *Hsp* gene in the plasmid-cured strain. (C) Kinetics of γ-PGA fermentation from raw inulin extract by different NX-2SΔp and NX-2SΔp-Hsp. Blue symbols denoted biomass and residual sugars of NX-2SΔp, and red symbols denoted biomass and residual sugars of NX-2SΔp-Hsp.