Additional Information for Publication

**Tolerance and Metabolic Response of *Pseudomonas taiwanensis* VLB120 towards Biomass Hydrolysate Derived Inhibitors**

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1. **Evaluation of different carbon sources for growth by *P. taiwanensis* VLB120**

Additional file 1: Figure S1. Growth profile of *P. taiwanensis* VLB120 in different carbon source (A) and mixed carbon sources (B). Growth rate (C) was calculated from growth curves. Aerobic cultivations were carried out in 24-well clear bottom microplate (EnzyScreen, Heemstede, The Netherlands) working volume 750 µL at 30 °C, 225 rpm. Error bars are the standard deviation of three biological replicate cultures. Abbreviations: glucose (glc), sodium benzoate (SB), sodium acetate (SA), galactose (gal), glycerol (gly) and xylose (xyl).

1. **Effect of biomass hydrolysate derived inhibitors on *P. taiwanensis* VLB120**

Additional file 1: Figure S2. Growth curve of *P. taiwanensis* VLB120 in the presence of furfural, 5-HMF, levulinic acid, formic acid, acetic acid and vanillin. Aerobic cultivations were carried out in 24-well clear bottom microplate (EnzyScreen, Heemstede, The Netherlands) working volume 750 µL at 30 °C, 225 rpm. Concentration: [g L-1]. Error bars are the standard deviation of three biological replicate cultures.

1. **Impact of inhibitory compounds on specific glucose uptake rate**

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Additional file 1: Figure S3. Growth of *P. taiwanensis* VLB120 in minimal media supplemented with 4 g L-1 of glucose in the presence of 2 g L-1 acetic acid (A), levulinic acid (B), furfural (C), or vanillin (D) and in the absence of inhibitory compound (E). The experiments were performed in 1.3-L bioreactors (SARTORIOUS ®) with 0.5 L working volume. The temperature, stirrer speed and pH were set at 30 °C, 800 rpm and 7.0, respectively. Cultures were supplied with air at a flow rate of 1 slpm, and minimum dissolved oxygen saturation level was 40%. Error bars indicate standard deviations of three independent cultures. CDW, cell dry weight. (I) glucose phase, (II) gluconate phase.

1. **Venn diagram**



Additional file 1: Figure S4. Venn diagram illustrating number of significantly (>20%) increased metabolites that overlap between different conditions.

1. PCA loading plot



Additional file 1: Figure S5. Score plots of principal component analysis (PCA) of *P. taiwanensis* VLB120 metabolites under various inhibitory test.

1. **Heat map based on LC-MS data**



Additional file 1: Figure S6. Heatmap of metabolites extracted from *P. taiwanensis* VLB120 under different stress conditions. Metabolites abundance differences were clustered according to trends measured across all biological replicates (n = 3).