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# Effects of Inhibitory Compounds Present in Lignocellulosic Biomass Hydrolysates on the Growth of *Bacillus subtilis*

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## Supplementary Materials

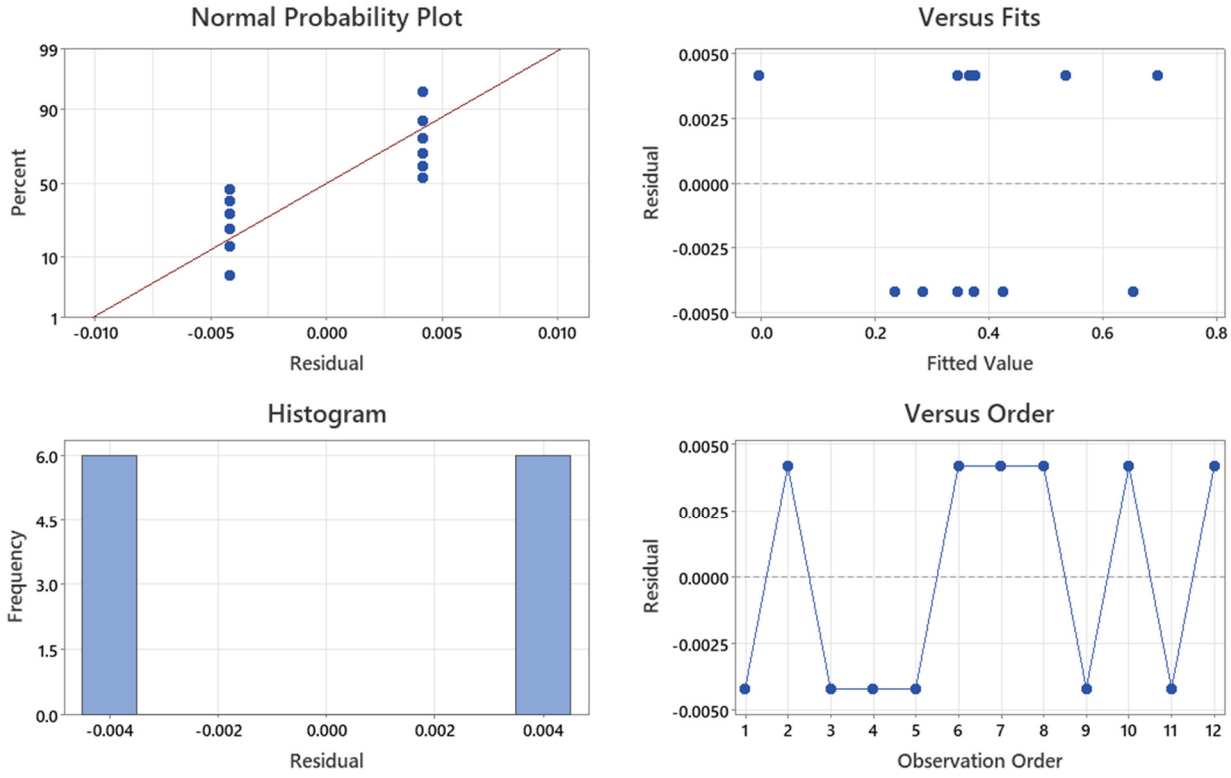


**Figure S1.** Residual plots from Plackett Burman design.

**Table S1.** Coded coefficients of Plackett Burman.

| Term | Effect | Coef | SE Coef | T-Value | P-Value | VIF |
|---|---|---|---|---|---|---|
| Constant | | 0.38583 | 0.00417 | 92.60 | 0.007 | |
| 5HMF | 0.06500 | 0.03250 | 0.00417 | 7.80 | 0.081 | 1.00 |
| Furfural | −0.17167 | −0.08583 | 0.00417 | −20.60 | 0.031 | 1.00 |
| Acetic acid | −0.01167 | −0.00583 | 0.00417 | −1.40 | 0.395 | 1.00 |
| Vanillin | −0.14500 | −0.07250 | 0.00417 | −17.40 | 0.037 | 1.00 |
| Vanillic acid | −0.00167 | −0.00083 | 0.00417 | −0.20 | 0.874 | 1.00 |
| Benzoic acid | −0.23833 | −0.11917 | 0.00417 | −28.60 | 0.022 | 1.00 |
| 4HBA | −0.01833 | −0.00917 | 0.00417 | −2.20 | 0.272 | 1.00 |
| TFA | 0.03833 | 0.01917 | 0.00417 | 4.60 | 0.136 | 1.00 |
| Syring | −0.11500 | −0.05750 | 0.00417 | −13.80 | 0.046 | 1.00 |
| PCA | −0.02167 | −0.01083 | 0.00417 | −2.60 | 0.234 | 1.00 |

**Table S2.** Analysis of variance from Plackett Burman.

| Source | DF | Adj SS | Adj MS | F-Value | P-Value |
|---|---|---|---|---|---|
| Model | 10 | 0.381483 | 0.038148 | 183.11 | 0.057 |
| Linear | 10 | 0.381483 | 0.038148 | 183.11 | 0.057 |
| 5HMF | 1 | 0.012675 | 0.012675 | 60.84 | 0.081 |
| Furfural | 1 | 0.088408 | 0.088408 | 424.36 | 0.031 |
| Acetic acid | 1 | 0.000408 | 0.000408 | 1.96 | 0.395 |
| Vanillin | 1 | 0.063075 | 0.063075 | 302.76 | 0.037 |
| Vanillic acid | 1 | 0.000008 | 0.000008 | 0.04 | 0.874 |
| Benzoic acid | 1 | 0.170408 | 0.170408 | 817.96 | 0.022 |
| 4HBA | 1 | 0.001008 | 0.001008 | 4.84 | 0.272 |
| TFA | 1 | 0.004408 | 0.004408 | 21.16 | 0.136 |
| Syring | 1 | 0.039675 | 0.039675 | 190.44 | 0.046 |
| PCA | 1 | 0.001408 | 0.001408 | 6.76 | 0.234 |
| Error | 1 | 0.000208 | 0.000208 | | |
| Total | 11 | 0.381692 | | | |