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**The significance of aspartate on NAD(H) biosynthesis and ABE fermentation in *Clostridium acetobutylicum* ATCC 824**

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**Table S1** Effect of tryptophan on ABE fermentation performance of *C. acetobutylicum* ATCC 824.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tryptophan  (g/L) | Acetone  (g/L) | Ethanol  (g/L) | Butanol  (g/L) | Acetic acid  (g/L) | Butyric acid  (g/L) |
| 0 | 5.90 ± 0.14 | 0.80 ± 0.13 | 11.18 ± 0.21 | 1.54 ± 0.04 | 1.0 ± 0.34 |
| 1.0 | 5.53 ± 0.06 | 2.86 ± 0.11 | 10.52 ± 0.06 | 1.67 ± 0.08 | 0.84 ± 0.11 |
| 1.5 | 5.37 ± 0.18 | 2.42 ± 0.08 | 10.26 ± 0.13 | 1.93 ± 0.20 | 1.03 ± 0.13 |
| 2.0 | 5.02 ± 0.04 | 2.11 ± 0.04 | 10.04 ± 0.17 | 1.98 ± 0.13 | 1.27 ± 0.06 |