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Effects of Tween 80 on fermentative butanol production from alkali-pretreated switchgrass

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Highlights

- Addition of Tween 80 enhances the fermentative biobutanol production.
- SSF with 5% solid loading produced 12.3 g/L ABE with a bioconversion yield of 0.28 (g-ABE/g-sugar).
- Above 5% solid loading, the solvent yield of SSF sharply decreased.
- SHF could process high solid loading but with a decreased overall bioconversion yield.

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