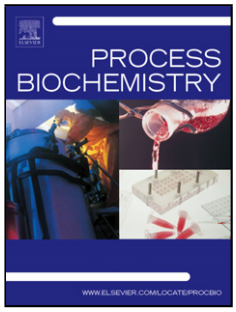

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Back-extraction of butanol from coacervate phase using Winsor III microemulsion

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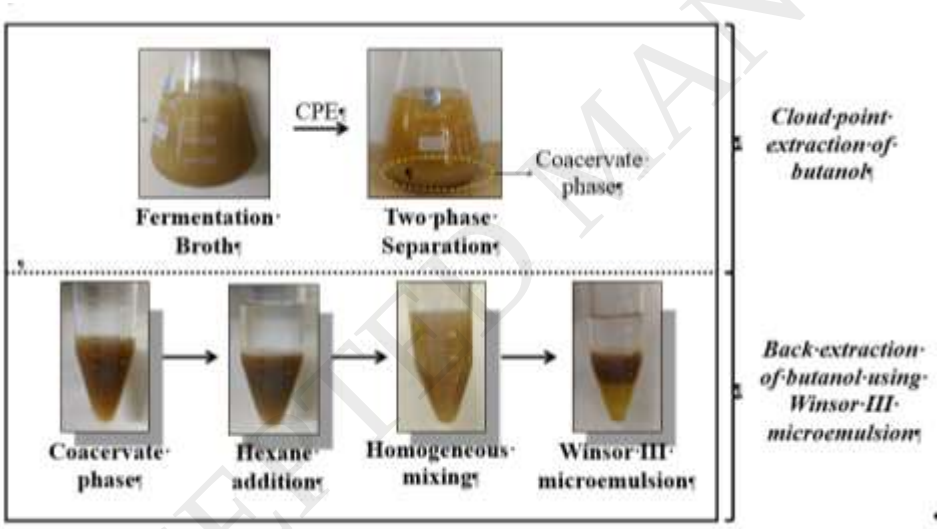
Graphical Abstract



Highlights:

- Back-extraction efficiency achieved for butanol 94.6 - 99.7% (w/v)
- Back-extraction efficiency achieved for L62 97-9 - 99.9% (wt%)
- Surfactant was successfully reused for 3 runs without affecting its performance
- Energy requirement was 4-5 times less than the conventional distillation.