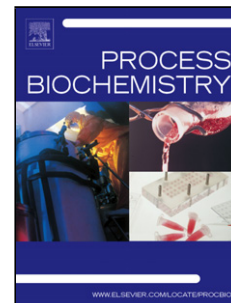


Accepted Manuscript

Title: Acetone-butanol-ethanol production using pH control strategy and immobilized cells in an integrated fermentation–pervaporation process

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PII: S1359-5113(14)00597-2
DOI: <http://dx.doi.org/doi:10.1016/j.procbio.2014.12.006>
Reference: PRBI 10293

To appear in: *Process Biochemistry*

Received date: 7-8-2014
Revised date: 10-12-2014
Accepted date: 15-12-2014

Please cite this article as: Wu H, He A-y, Kong X-p, Jiang M, Chen X-p, Zhu D-w, Liu G-p, Jin W-q, Acetone-butanol-ethanol production using pH control strategy and immobilized cells in an integrated fermentation–pervaporation process, *Process Biochemistry* (2014), <http://dx.doi.org/10.1016/j.procbio.2014.12.006>

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1 Highlights

- 2 • ABE production integrated with pervaporation was enhanced by pH control strategy.
- 3 • Separation performance of pervaporation decreased obviously for membrane fouling.
- 4 • Cell immobilization was effective in reducing the membrane fouling.
- 5 • Solvent productivity in the coupling process increased 138% using immobilized cells.

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