## **Supporting Information**

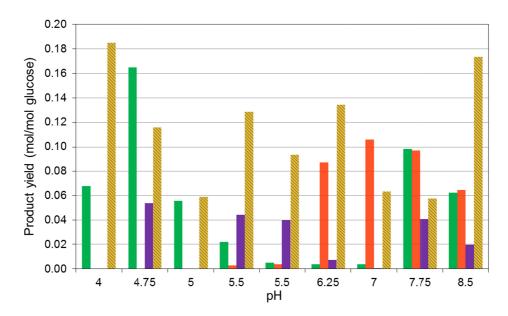
## Metabolic energy-based modelling explains product yielding in anaerobic mixed culture fermentations

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## **Results for minor products**

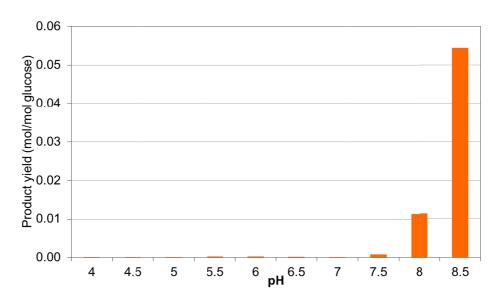
The results obtained for the prediction of minor products concentrations are not very valuable. They do not permit to obtain final conclusions as the model has not enough precision. We include here the comparison between the results obtained for the concentrations of these products by Temudo et al. 2007 [1] and the results predicted by the model.



**Figure A** Experimental steady state yields for minor products as reported by Temudo et al. 2007 [1] (at 20 hours of HRT for pH  $\leq$  5.5 and at 8 hours of HRT for pH  $\geq$  5.5). Yields of:  $\blacksquare$  lactate;  $\blacksquare$  succionate;  $\blacksquare$  propionate;  $\blacksquare$  glycerol.

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**Figure B** Model simulation results on the influence of pH on ■ succionate yield.

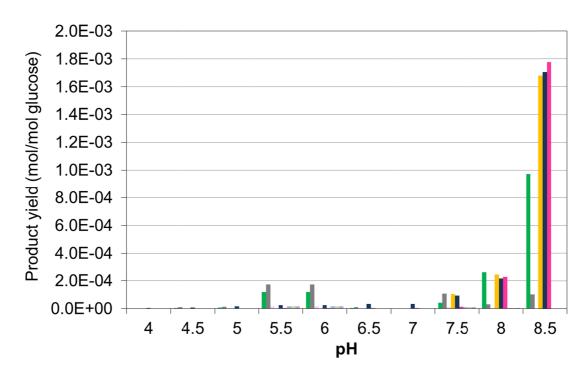


Figure C Model simulation results on the influence of pH on minor products. Yields of: ■ lactate; ■ acetoacetate; ■ acetone; ■ oxaloacetate; ■ malate; ■ fumarate; ■ acetaldehyde; ■ butyraldehide; ■ butanol.

## References

1. Temudo MF, Kleerebezem R, van Loosdrecht MCM. Influence of the pH on (open) Mixed Culture Fermentation of Glucose: A Chemostat Study. Biotechnol Bioeng. 2007;98(1):69-79.