

# *Microbial production of D-lactic acid from dried distillers grains with solubles*

Article

Accepted Version

Mohd Zaini, N. A. B., Chatzifragkou, A. and Charalampopoulos, D. (2019) Microbial production of D-lactic acid from dried distillers grains with solubles. *Engineering in Life Sciences*, 19 (1). pp. 21-30. ISSN 1618-2863 doi: <https://doi.org/10.1002/elsc.201800077> Available at <https://centaur.reading.ac.uk/79714/>

It is advisable to refer to the publisher's version if you intend to cite from the work. See [Guidance on citing](#).

To link to this article DOI: <http://dx.doi.org/10.1002/elsc.201800077>

Publisher: Wiley

All outputs in CentAUR are protected by Intellectual Property Rights law, including copyright law. Copyright and IPR is retained by the creators or other copyright holders. Terms and conditions for use of this material are defined in the [End User Agreement](#).

[www.reading.ac.uk/centaur](http://www.reading.ac.uk/centaur)

**CentAUR**

Central Archive at the University of Reading

Reading's research outputs online



1 **Figure legends**

2

3 Figure 1: Fermentation profile of *L. coryniformis* in pretreated DDGS hydrolysate in a 100 ml  
4 bioreactor (temperature: 37 °C, pH: 6). OD: Optical density at 600 nm; FAN: Free amino  
5 nitrogen. Data based on two independent fermentation trials and reported as mean ± std. dev.

6

7 Figure 2: Simultaneous saccharification and fermentation (SSF) of alkaline pretreated DDGS by  
8 *L. coryniformis* in a 100 ml bioreactor (temperature 37°C, pH 5) under different fermentation  
9 regimes. 3a: DDGS concentration: 33 g/l; 3b) addition of 11g/l DDGS after 24 hours; 3c)  
10 addition of 22 g/l DDGS after 24 hours. Data based on two independent fermentation trials and  
11 reported as mean ± std. dev.

12

13 Figure 3: Simultaneous saccharification and fermentation (SSF) of alkaline pretreated DDGS by  
14 *L. coryniformis* in a 2 L bioreactor (temperature 37 °C, pH 5); FAN: Free amino nitrogen

15

16

17

18

19

20

21

22

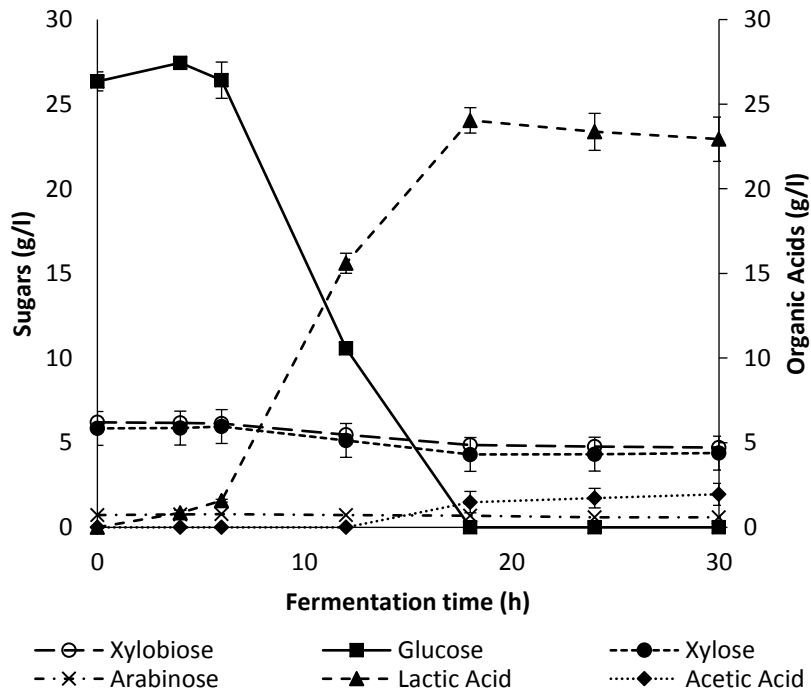
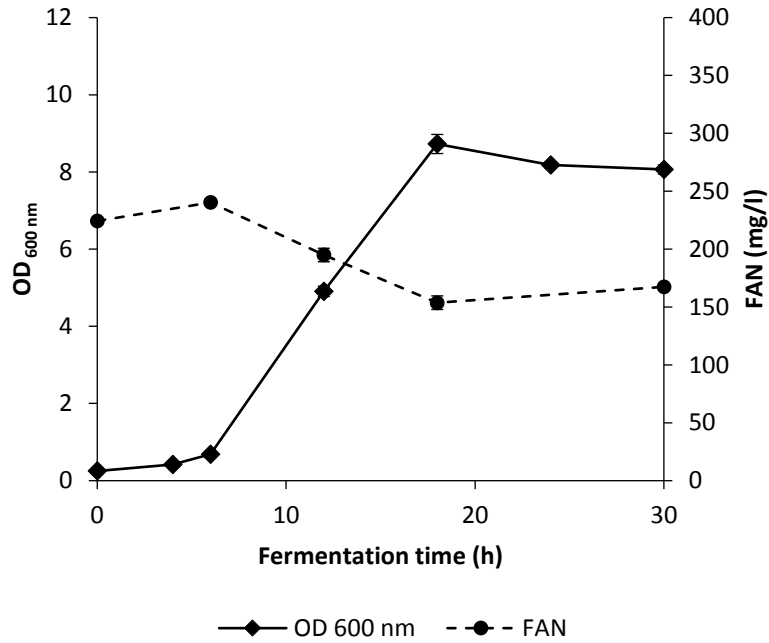
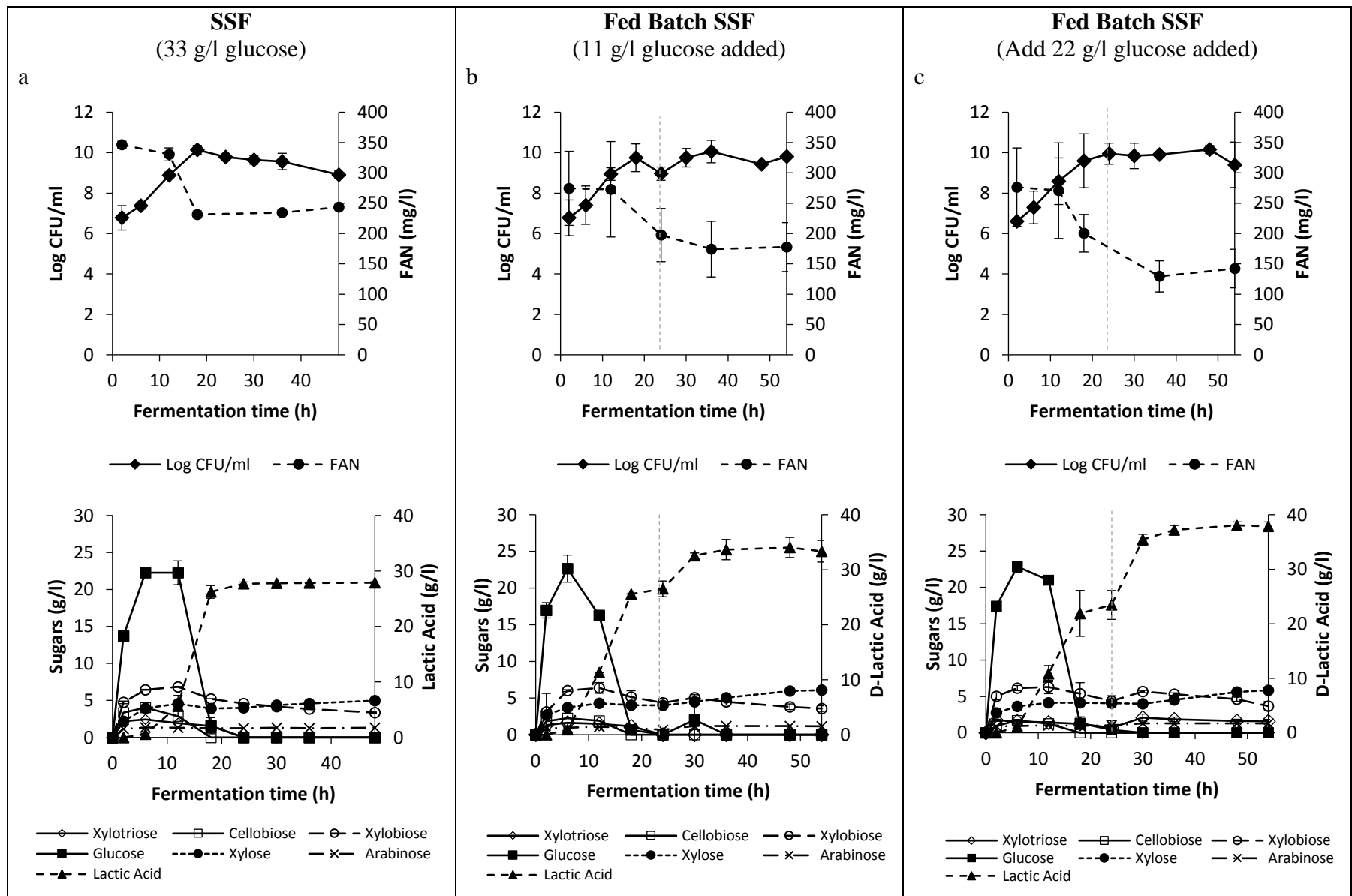


Figure 1



24

25

Figure 2

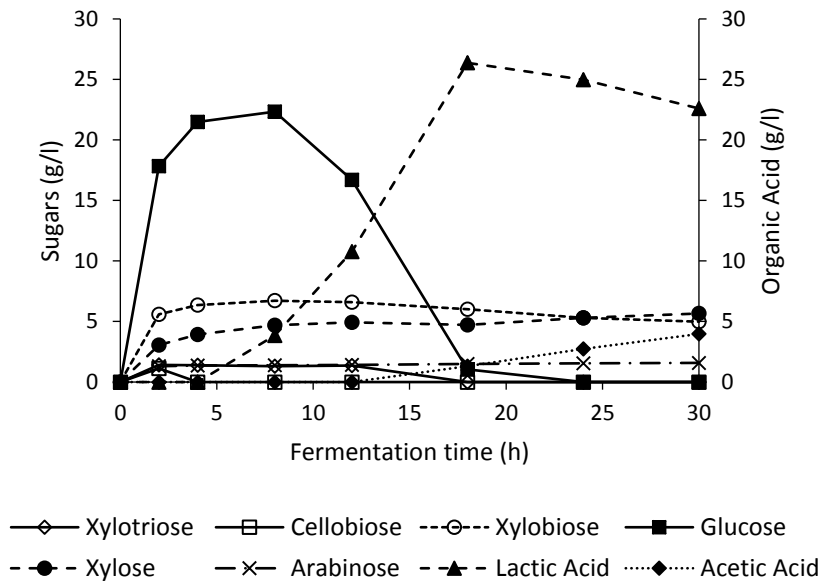
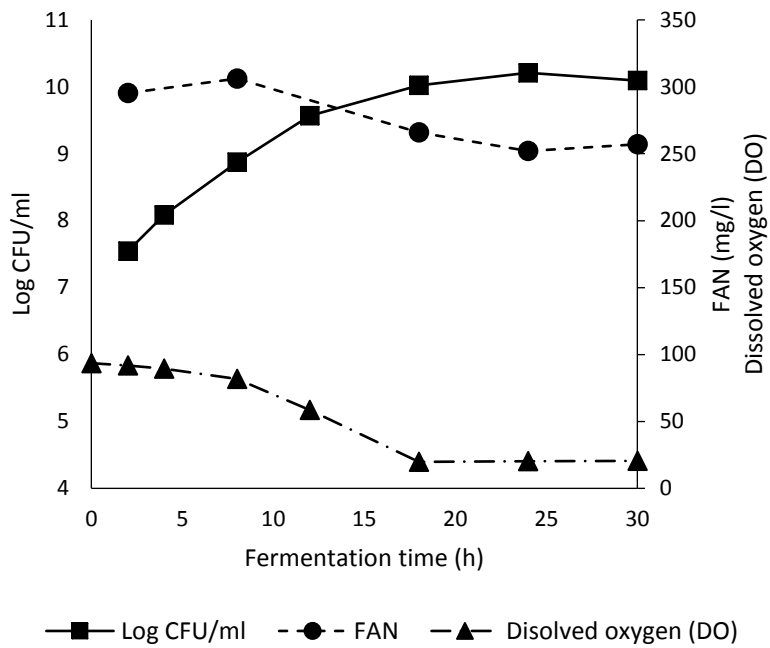


Figure 3