Supplementary Information

Microbial electrochemical treatment of biorefinery black liquor and resource recovery

Xi Chen^{a,b}, Katahira Rui^c, Zheng Ge^b, Lu Lu^{a,b}, Dianxun Hou^b, Darren Peterson^c, Melvin Tucker^c, Xiaowen Chen^{c*}, Zhiyong Jason Ren^{a,b*}

^aDepartment of Civil and Environmental Engineering and The Andlinger Center for

Energy and the Environment, Princeton University, Princeton, NJ 08544 USA

^bDepartment of Civil, Environmental, and Architectural Engineering, University of

Colorado Boulder, Boulder, CO 80309 USA

^cNational Bioenergy Center, National Renewable Energy Laboratory, 15013 Denver West Parkway, Golden, USA

*Corresponding authors:

Chen: Xiaowen.Chen@nrel.gov; Ren: zjren@princeton.edu

Min	Water+0.05% formic acid	Acetonitrile+0.05% formic acid
0.0	99.0%	1.0%
35.0	50.0%	50.0%
42.0	25.0%	75.0%
43.0	99.0%	1.0%
50.0	Method ends	

Table S1. The gradient of water/acetonitrile in the high-performance liquid chromatography eluent.



Figure S1. Time-course current output of the MBRC when feeding with the concentrated black liquor diluted by 5, 10 and 20 times.



Figure S2. Photo of the MBRC reactor. The tubing system showed parallel-loop mode.



Figure S3. The time-course current output of the MBRCs operating in the serial- and parallel-loop mode.



Figure S4. The process flow diagram of the parallel-loop mode MBRC operation.