

## **SUPPORTING INFORMATION**

### **High-rate microbial electrosynthesis using a zero-gap flow cell and vapor-fed anode design**

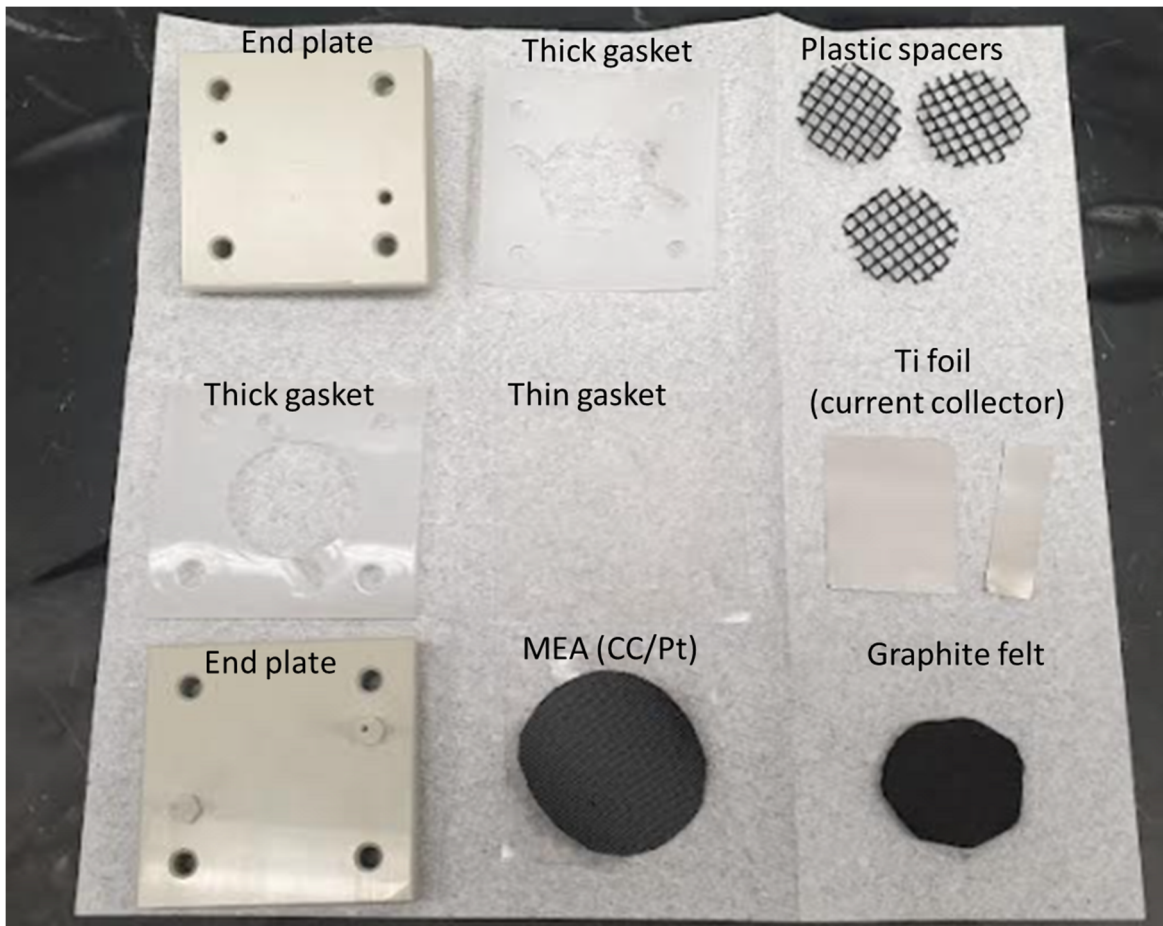
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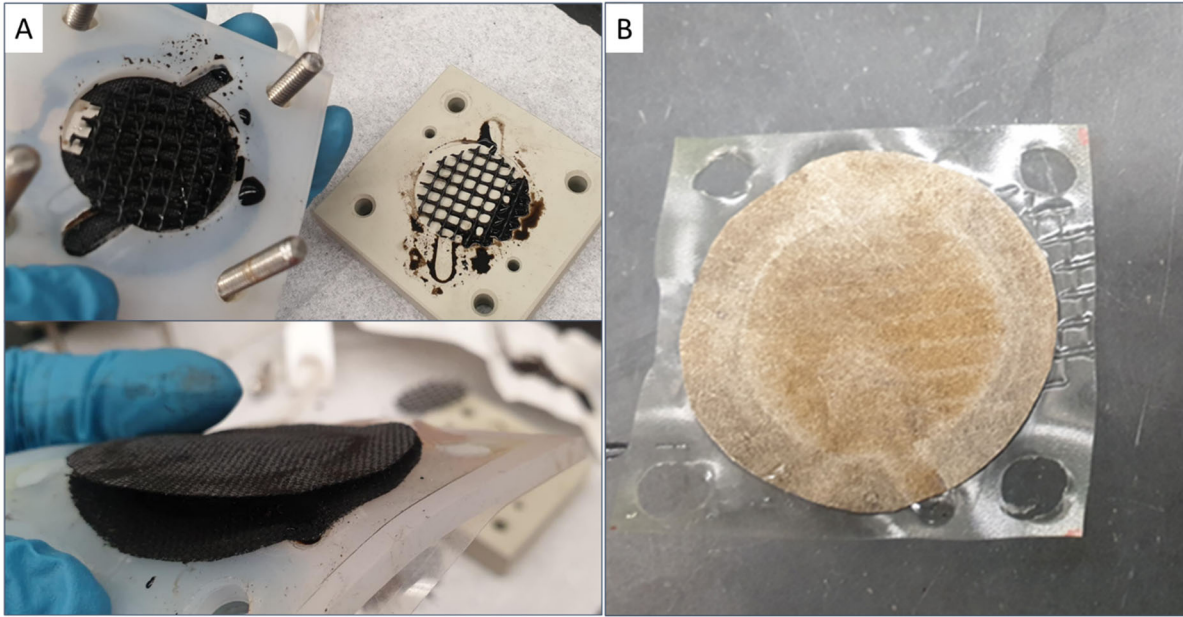
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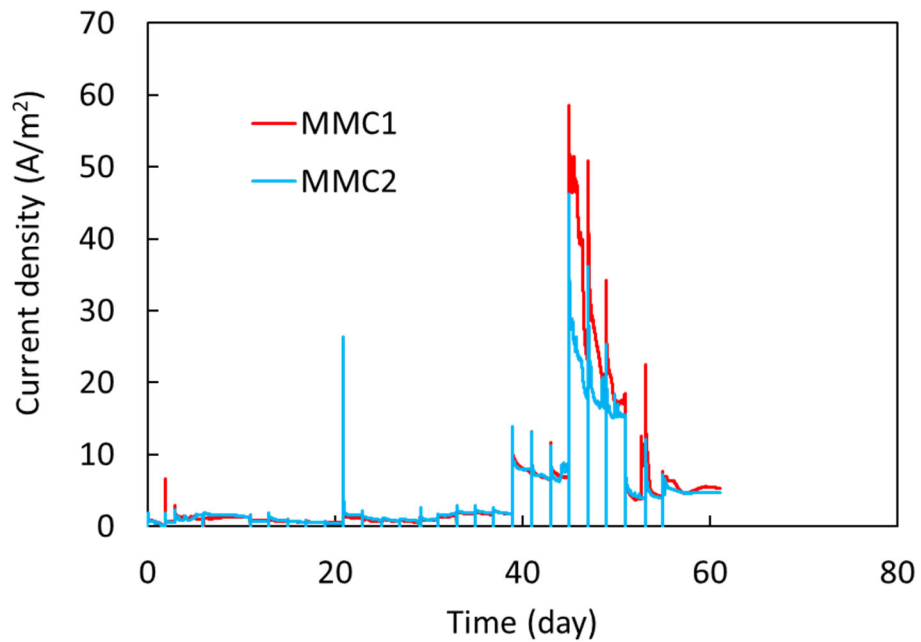
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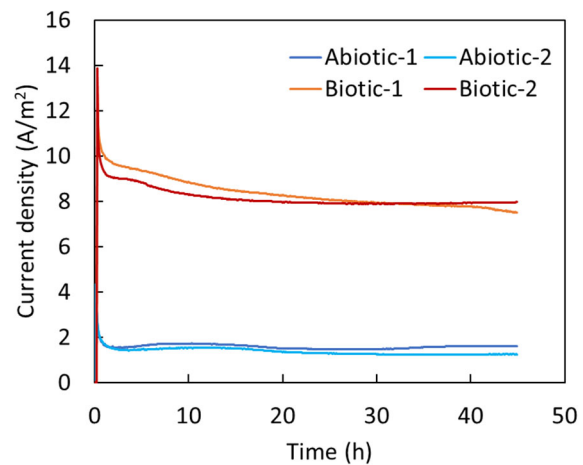
**Fig. S1.** Photographs of the MMC materials used in this study



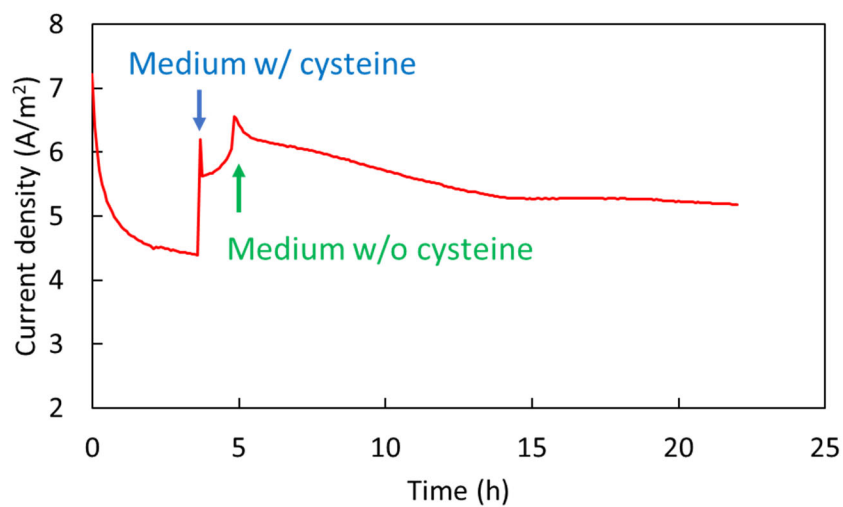
**Fig. S2.** Photographs of the vapor-fed anode materials after long-term operation. (A) Corrosion of the platinized carbon cloth with an observation of black-color liquid production and (B) no corrosion or apparent change of the platinized titanium felt.



**Fig. S3.** Current density profiles produced from each MES system.



**Fig. S4.** Current density profiles during one cycle operation with and without biofilm on the cathode of MES medium.



**Fig. S5.** Changes in current density profile after L-cysteine (an oxygen scavenger) was added into the MES medium.