



Figure S1. Procedures of different EPS extraction methods.

Table S1. Comparison of different EPS extraction methods.

| Extraction Method | Extraction Sources | Degree of cell lysis | EPS content compared to centrifugation and ultrasound [‡] | Ref. |
|--|--|----------------------|--|---------|
| Heating (40 °C) | <i>Shewanella oneidensis</i> MR-1/ <i>Geobacter sulfurreducens</i> PCA and <i>Geobacter soli</i> GSS01 | Low | High | [1,2] |
| H ₂ SO ₄ | <i>Shewanella oneidensis</i> MR-1/anaerobic ammonium oxidation | High | Relatively high | [1,3] |
| EDTA | <i>Shewanella oneidensis</i> MR-1/activated sludge/anaerobic ammonium oxidation/ <i>Geobacter sulfurreducens</i> PCA and <i>Geobacter soli</i> GSS01 | Low | Relatively high (humic substance and DNA) | [1,2,4] |
| NaOH | <i>Shewanella oneidensis</i> MR-1 | High | Relatively high | [1] |
| Formaldehyde/ NaOH | activated sludge/anaerobic ammonium oxidation | Low | Relatively high (carbohydrate, protein and uronic acid) | [3,4] |
| CER | <i>Shewanella oneidensis</i> MR-1/activated sludge/anaerobic ammonium oxidation | Low | high | [3–5] |
| CE | activated sludge | Low | Relatively high (carbohydrate, protein and uronic acid) | [4] |
| Ethanol | activated sludge | Low | Relatively low | [4] |
| Heating -Na ₂ CO ₃ | anaerobic ammonium oxidation | Low | High (proteins) | [3] |

[‡]: In parentheses are the relative benefits of the method for extracting certain components of EPS.

References

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