Supplementary Material

**Rare Earths stick to rare Cyanobacteria: Future Potential for Bioremediation and Recovery of Rare Earth Elements**

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Supplementary Table S1: Maximum adsorption capacity (Qmax, mg Ce3+ g-1 dry mass) and Langmuir adsorption coefficient (K) of the Langmuir model for the adsorption of Ce3+ by different cyanobacteria (n=3)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Qmax | K | R2 |
| *Nostoc sp.* 20.02 | 90.0 ± 11.6 | 0.63 | 0.88 |
| *Synechococus elongatus* UTEX 2973 | 74.1 ± 12.4 | 0.76 | 0.71 |
| *Desmonostoc muscorum* 90.03 | 80.6 ± 13.5 | 0.32 | 0.83 |
| *Calothrix brevissima* SAG 34.79 | 58.9 ± 11.6 | 0.82 | 0.68 |
| *Komarekiella sp.* 89.12 | 80.8 ± 25.2 | 0.28 | 0.53 |

Supplementary Table S2: Adsorption capacity constant (Kf) and intensity constant (n) of the Freundlich model for the adsorption of Ce3+ by different cyanobacteria (n=3)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Kf | n | R2 |
| *Nostoc sp.* 20.02 | 33.0± 9.8 | 3.4 | 0.74 |
| *Synechococus elongatus* UTEX 2973 | 38.3± 6.3 | 5.3 | 0.84 |
| *Desmonostoc muscorum* 90.03 | 24.2± 8.5 | 3.1 | 0.74 |
| *Calothrix brevissima* SAG 34.79 | 27.2± 6.9 | 2.2 | 0.72 |
| *Komarekiella sp.* 89.12 | 25.7± 11.4 | 3.3 | 0.52 |