Supplementary materials

Mostafa M. S. Ismaiel1*, Yassin M. El-Ayouty1, Saad A. Abdelaal2, Hoda A. Fathey1

1 Department of Botany and Microbiology, Faculty of Science, Zagazig University, Zagazig 44519, Egypt.

2 Nuclear Research Center, Egyptian Atomic Energy Authority, P.O. Box, 13759, Cairo, Egypt.

* Corresponding author; e-mail: mostafamsami@yahoo.com; permanent address: Department of Botany and Microbiology, Faculty of Science, Zagazig University, Zagazig, 44519, Egypt.

Tel: +2 0111 7373167
Fax: +2 055 2308213
**Fig. S1.** Microscopic images of the free-form of algae investigated for their biosorption efficiency of uranium (in immobilized form). A, *Scenedesmus* sp.; B, *Nostoc* sp. The images captured with iScope microscope (Euromex iScope series, Holland) with digital camera (CAMERA CMEX 5).

**Fig. S2.** Immobilized algal cells; A, *Nostoc* sp.; B, *Scenedesmus* sp.
**Table S1. Composition of algal culture media**

| Modified Watanabe medium (El-Nawawy et al., 1958) (g.l⁻¹) |
|-----------------------------------------------------------|
| 0.3 g K₂HPO₄, 0.20g MgSO₄.7H₂O, 0.20g K₂SO₄, 0.1g CaCO₃, 2.0g glucose, 0.20 ml of 1% FeCl₃ solution (freshly prepared), and 1.0 ml of micronutrient solution. |
| The micronutrient solution was prepared (g.l⁻¹) as: |
| 2.80 g H₃BO₄; 0.22g ZnSO₄.7H₂O; 0.08g CuSO₄.5H₂O; 1.80g MnCl₂ and 0.02g H₂MoO₃.H₂O, and made up to 1000 ml by distilled water. The pH of the medium was adjusted to 7.4. |

| BG11 medium (Stanier et al., 1971) (g.l⁻¹) |
|------------------------------------------|
| 1.5g NaNO₃, 0.4g K₂HPO₄, 0.75g MgSO₄.7H₂O, 0.36g CaCl₂.2H₂O, 0.06g citric acid, 0.06g ferric ammonium citrate, 0.01g EDTA-Na₂, 0.2g Na₂CO₃, and 1ml of trace metal solution. |
| The trace metal solution was prepared (g.l⁻¹) as: |
| 2.86g H₃BO₄, 1.81g MnCl₂.4H₂O, 0.22g ZnSO₄.7H₂O, 0.39g NaMoO₄.5H₂O, 0.08g CuSO₄.5H₂O, and 0.05g Co(NO₃)₂.6H₂O. The pH of the medium was adjusted to 7.1. |