water

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Supplementary materials

Arsenic Accumulation and Biotransformation Affected by Nutrients (N and P) in Common Blooming-Forming *Microcystis wesenbergii* (Komárek) Komárek ex Komárek (Cyanobacteria)

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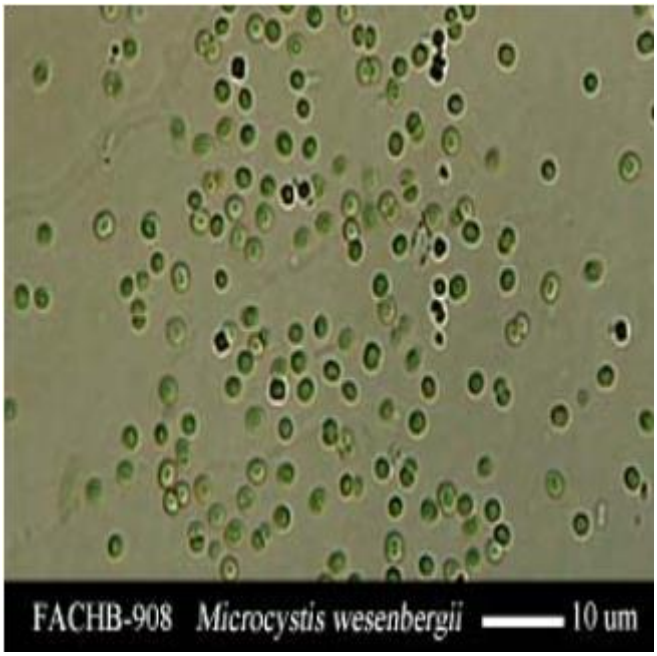

Figure S1. Photograph of *Microcystis wesenbergii* FACHB 908, provided from Institute of Hydrobiology, Chinese Academy of Sciences.

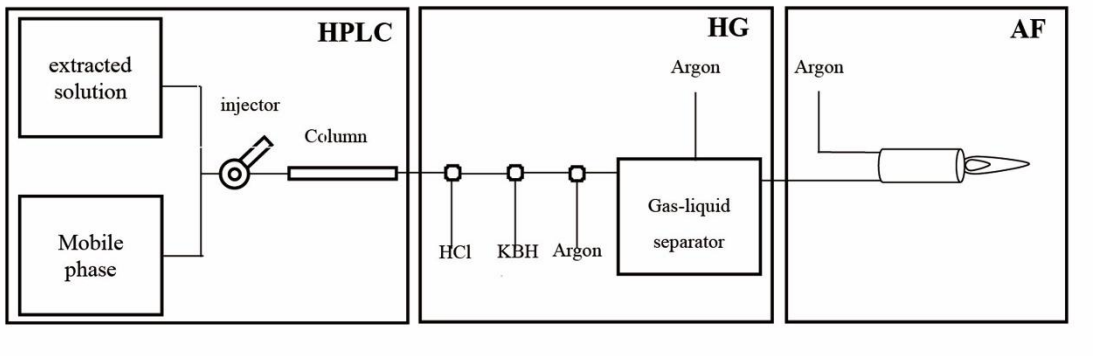

Figure S2. Instrumental scheme of coupled HPLC-HG-AFS.

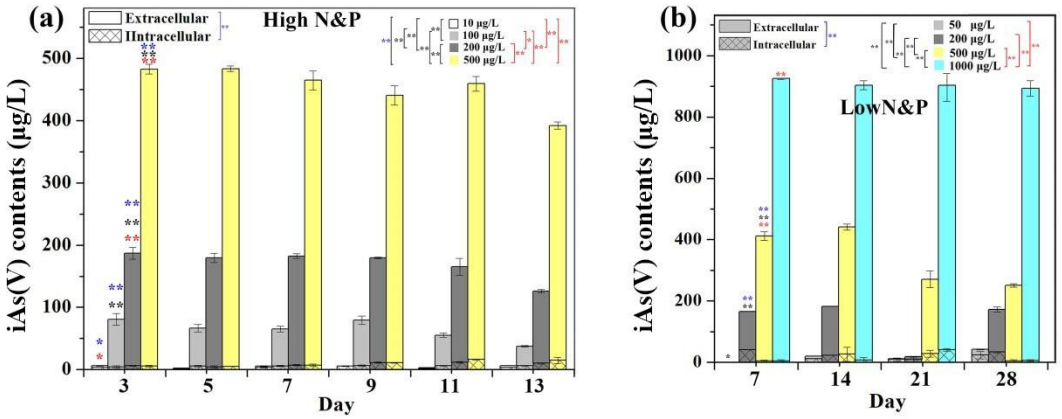

Figure S3. The intracellular and extracellular iAs(V) concentrations varied with incubation time that was exposed with different iAs(V) concentrations under the high (**a**) and low (**b**) nutrient sets. Note: Red and black * on the legend indicated significant variations of intracellular and extracellular iAs(V) concentrations with incubation time, respectively, between each of two groups of ambient iAs(V) concentrations; blue * indicated significant variations between intracellular and extracellular iAs(V) concentrations in four groups of ambient iAs(V) concentrations. Red, black, and blue * on column bars indicated significant variations of intracellular, extracellular, and the total of iAs(V) concentrations with incubation time for each group of ambient iAs(V) concentration. Significance levels below 0.05 (*) and 0.01 (**) are denoted in the figure.

Table S1. Revised experimental condition for the HPLC-HG-AFS shown by Roldán et al. (2016).

HPLC		**HG-AFS**	
column	Hamilton PRPX-100 (250×4.1mm, particle size 10 µm)	Primary current (mA)	27.5
Mobile phases A (mmol/L)	$(NH_4)H_2PO_4$ 2 mmol/L pH 4.6	Boosted (mA)	35
Mobile phases B(mmol/L)	$(NH_4)2HPO_4/(NH_4)H_2PO_4$ 30 mmol/L pH 7.6	HCl (v/v)	5%
Gradient elution program	A: 0–3 min	Flow HCl (mL min)	3.5
	B: 3–9 min	KBH4 (m/v)	1.5%(in 0.4% m/v NaOH)
	A: 9–20 min	Flow KBH4 (mL/min)	3.5
Flow rate (mL/min)	1.0	Argon flow (mL/min)	300
Injection volume (µL)	250	nitrogen (mL/min)	450