

Materials and Methods:

Table S5. Mass-spectrometry operating parameters for the analysis of cyanotoxins.

| Cyanotoxin | Retention Time | Mass-to-charge ratio (m/z) transition | Cone (V) | Collision energy (V) |
|--------------------|-----------------------------------|---|----------|----------------------|
| Microcystin-LR | 10.24 15.91 (gradient 1 and 2) | 995.5>135.05 | 50 | 30 |
| | | 995.5>599.2 | 50 | 30 |
| Cylindrospermopsin | 3.85 | 415.9>176 | 20 | 80 |
| | | 415.9>194 | 20 | 80 |
| | | 415.9>336.1 | 20 | 20 |

Results:

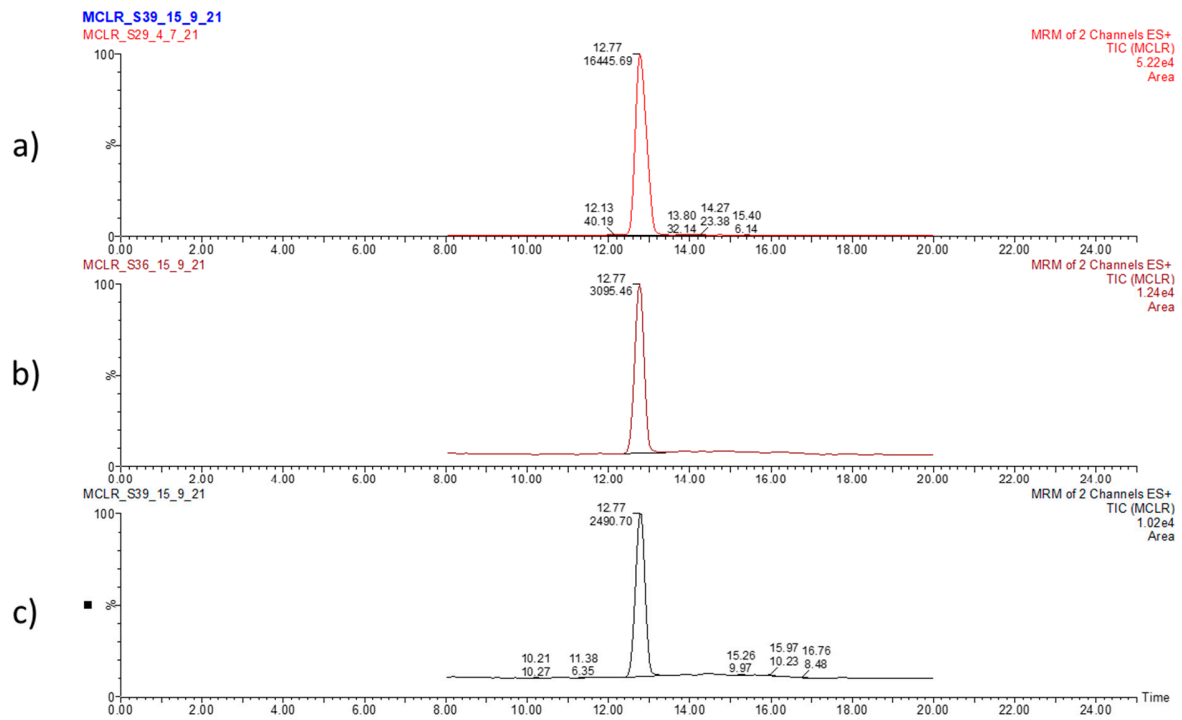


Figure S1: LC-MS chromatogram displaying elution time of MC-LR and peak area in Control (a), sunlight 5h (b) and sunlight 12h (c) in dried *M. aeruginosa* biomass. Values correspond to elution time (12.77 min) and relative abundance of MC-LR.

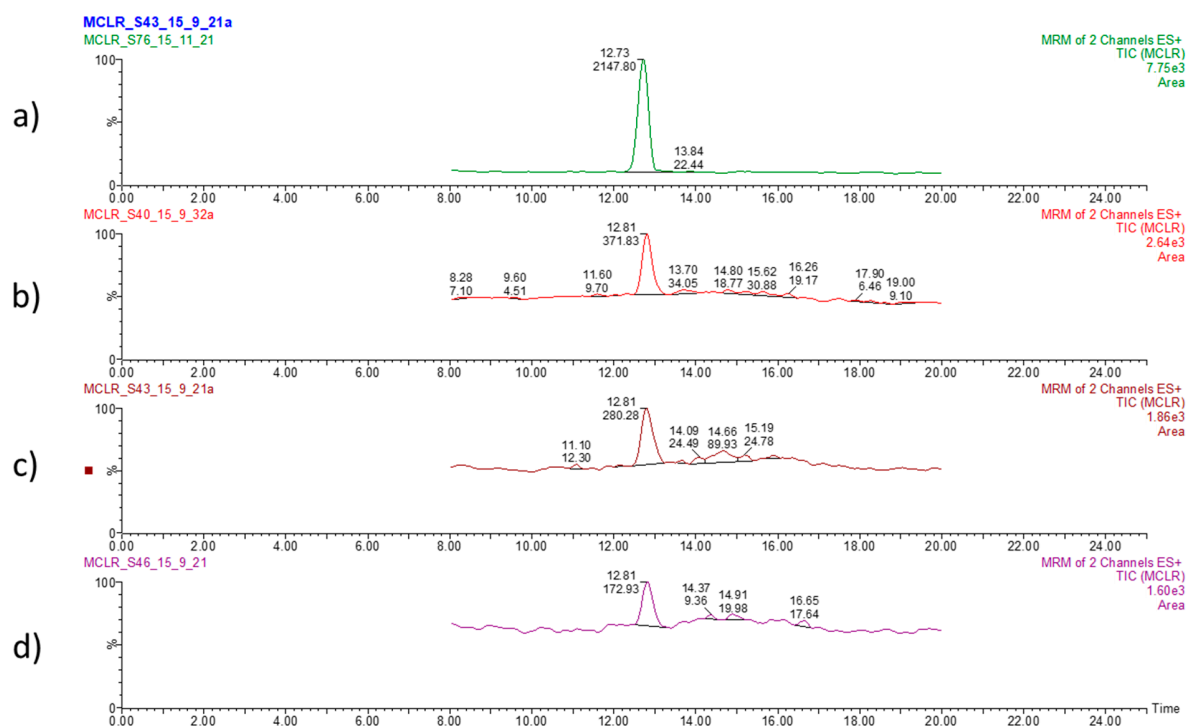


Figure S2: LC-MS chromatogram displaying elution time of MC-LR and peak area in Control (a), sunlight 2h (b), 5h (c) and (d) in hydrated *M. aeruginosa* biomass. Values correspond to elution time (12.81 min) and relative abundance of MC-LR.

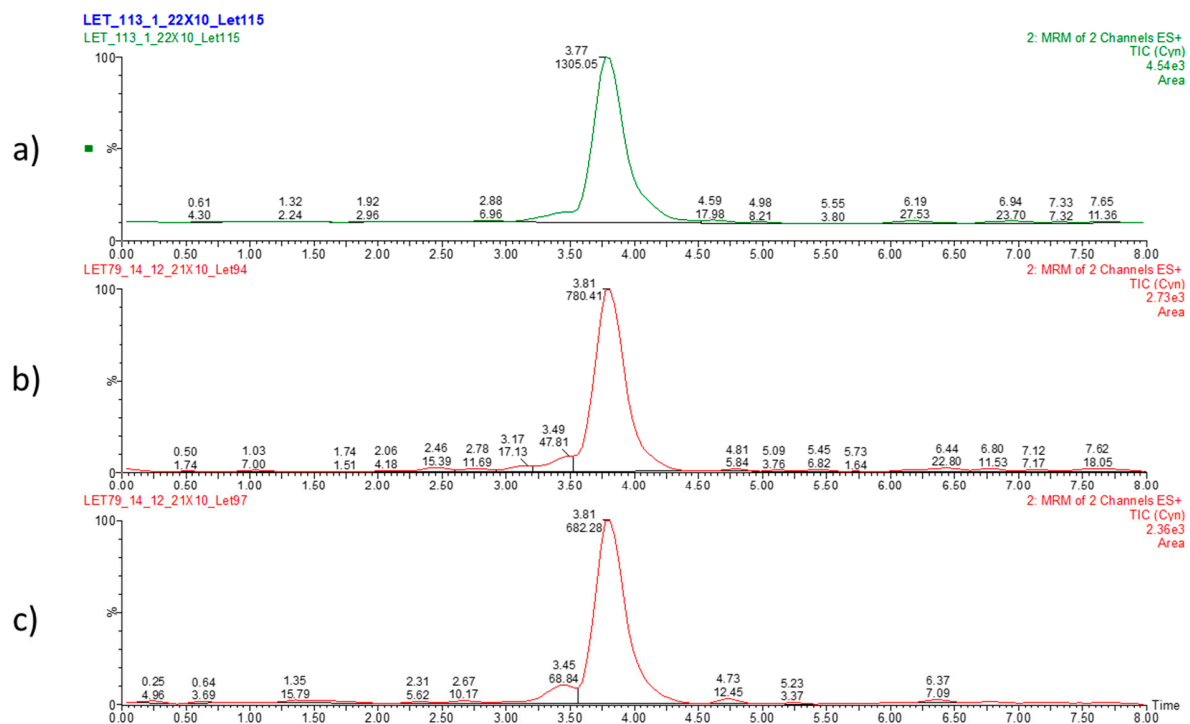


Figure S3: LC-MS chromatogram displaying elution time of CYN and peak area in Control (a), 50°C 12h (b) and UV 2h (c) and in dried *C. ovalisporum* biomass. Values correspond to elution time (3.81 min) and relative abundance of CYN.

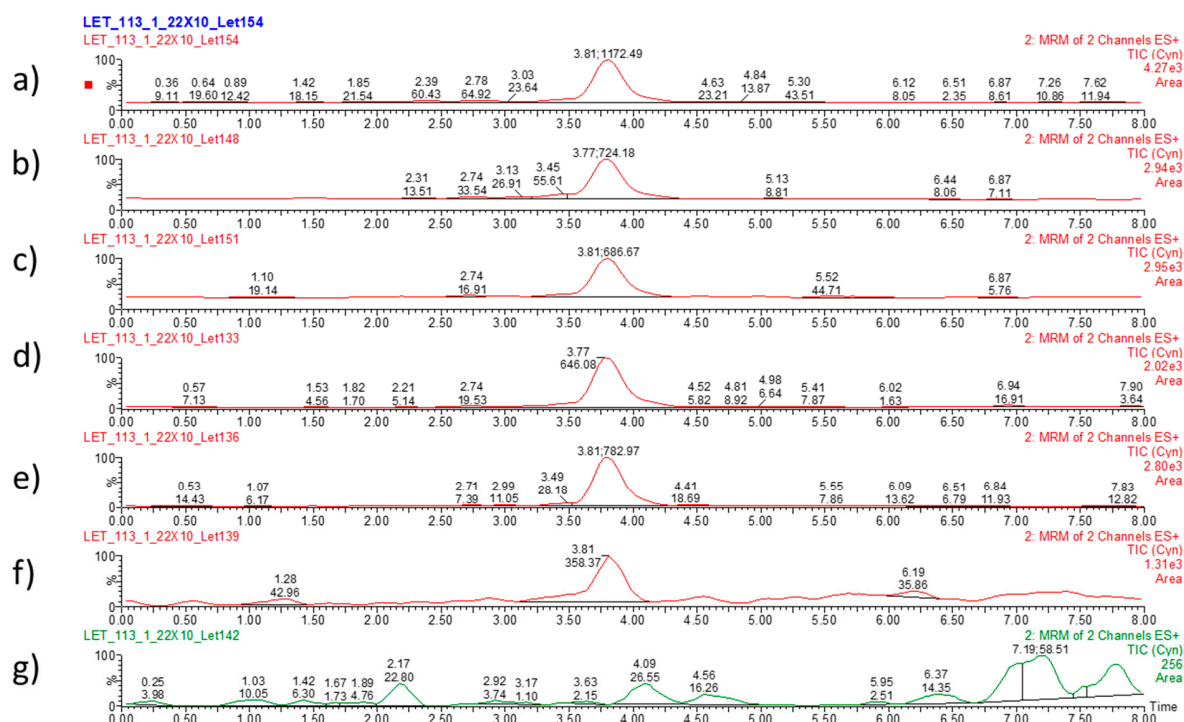


Figure S4: LC-MS chromatogram displaying elution time of CYN and peak area in Control (a), sunlight 5h (b) and 12h (c), 50°C 12h (d), UV 2h (e), 5h (f) and 12h (g) and in hydrated *C. ovalisporum* biomass. Values correspond to elution time (3.81 min) and relative abundance of CYN.