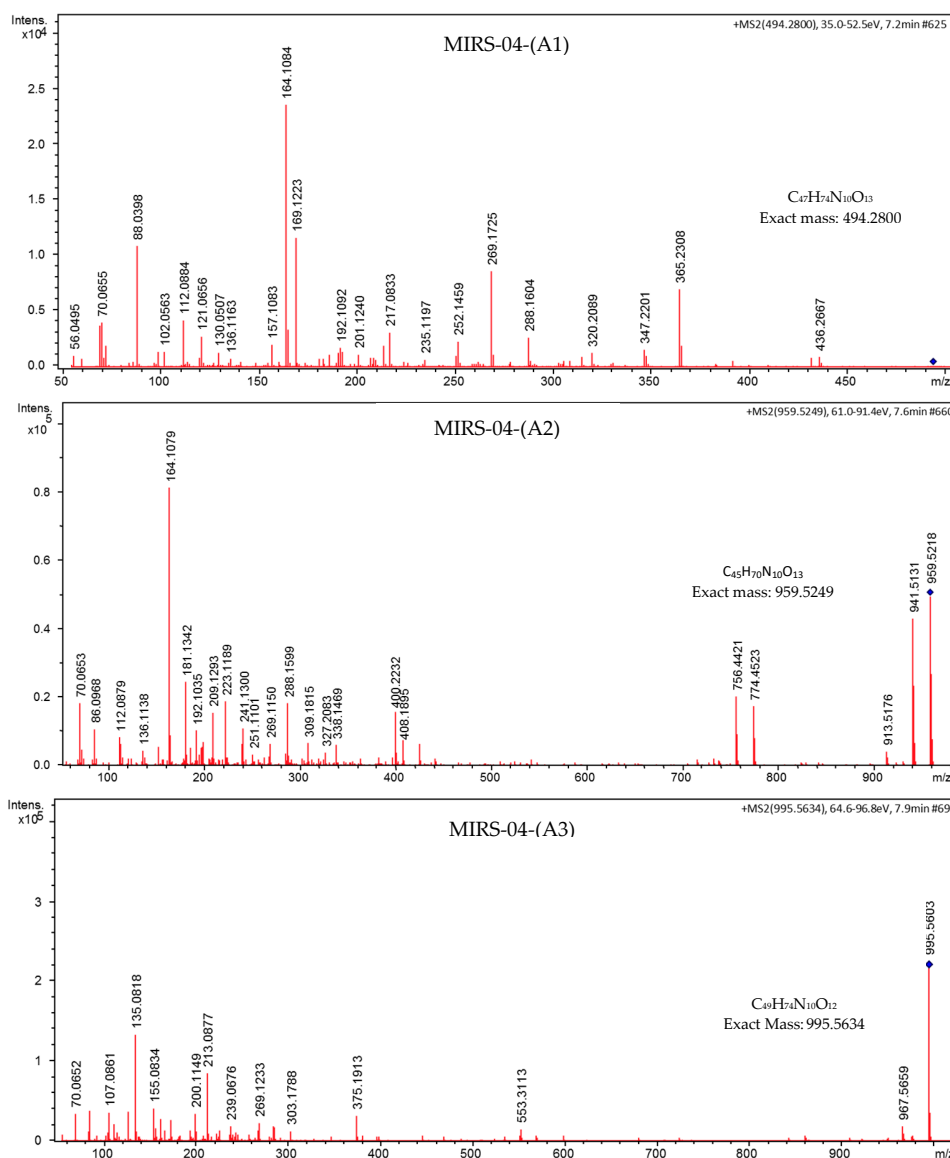


Supplementary materials: Toxicity of Cyanopeptides from Two *Microcystis* Strains on Larval Development of *Astyanax altiparanae*

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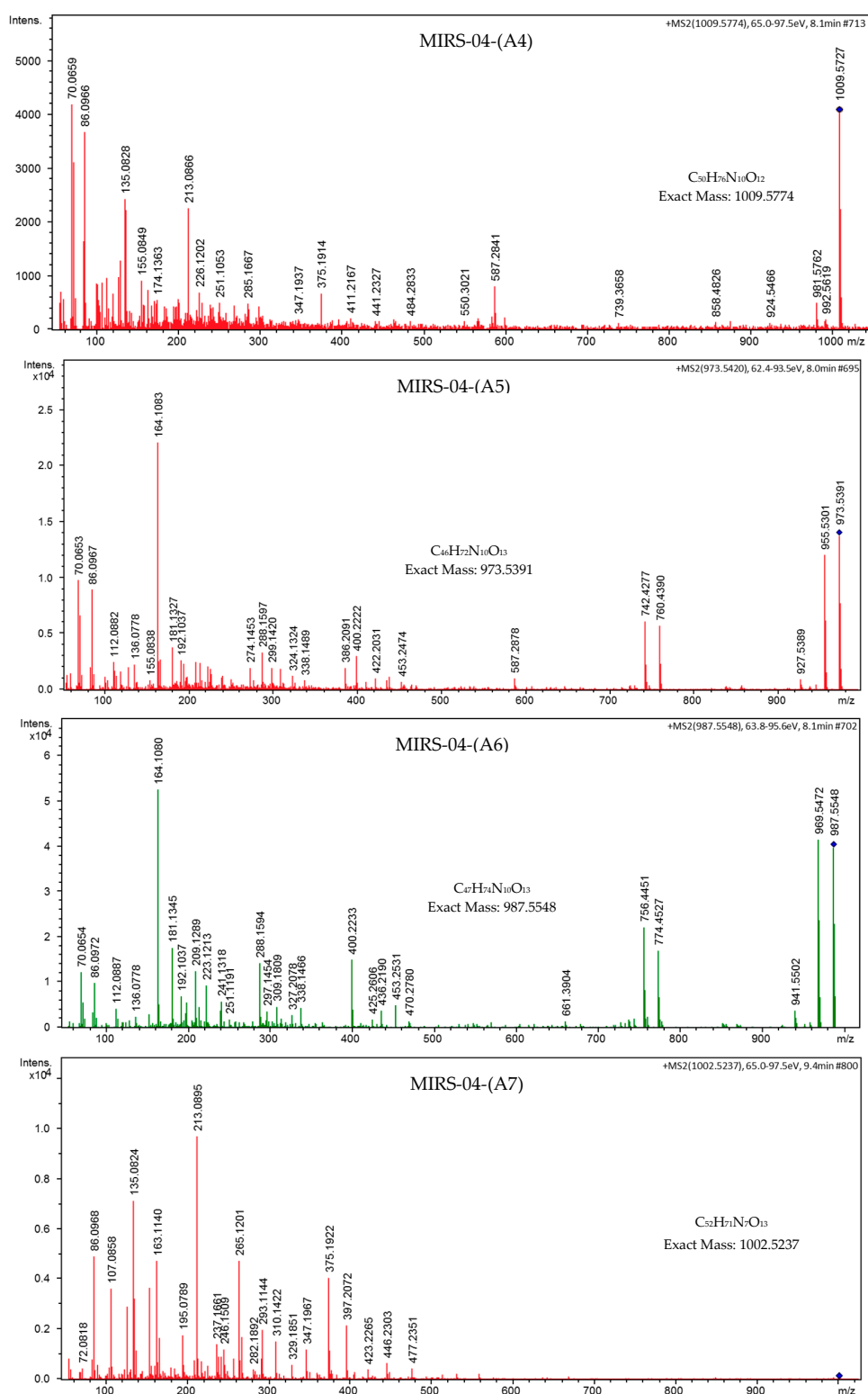


Figure S1. MS² spectra ions products of the compounds identified in strain MIRS-04 extract. The mass spectra follow the sequence of the peaks identified in the chromatogram for the extract of strain MIRS-04. The mass spectra are presented and quoted in Figure 1 in the text. Peak A1= [M+2H]²⁺ *m/z* 494.2800 (micropeptin K139), Peak A2= [M+H]⁺ *m/z* 959.5249 (micropeptin 959), Peak A3= [M+H]⁺ *m/z* 995.5634,

Peak A4= $[M+H]^+$ m/z 1009.5774 (microcystin HilR), Peak A5= $[M+H]^+$ m/z 973.5391 (micropeptin 973),
Peak A6 = $[M+H]^+$ m/z 987.5548 (micropeptin B) and Peak A7= $[M+H]^+$ m/z 1002.5237 (microcystin-LY).

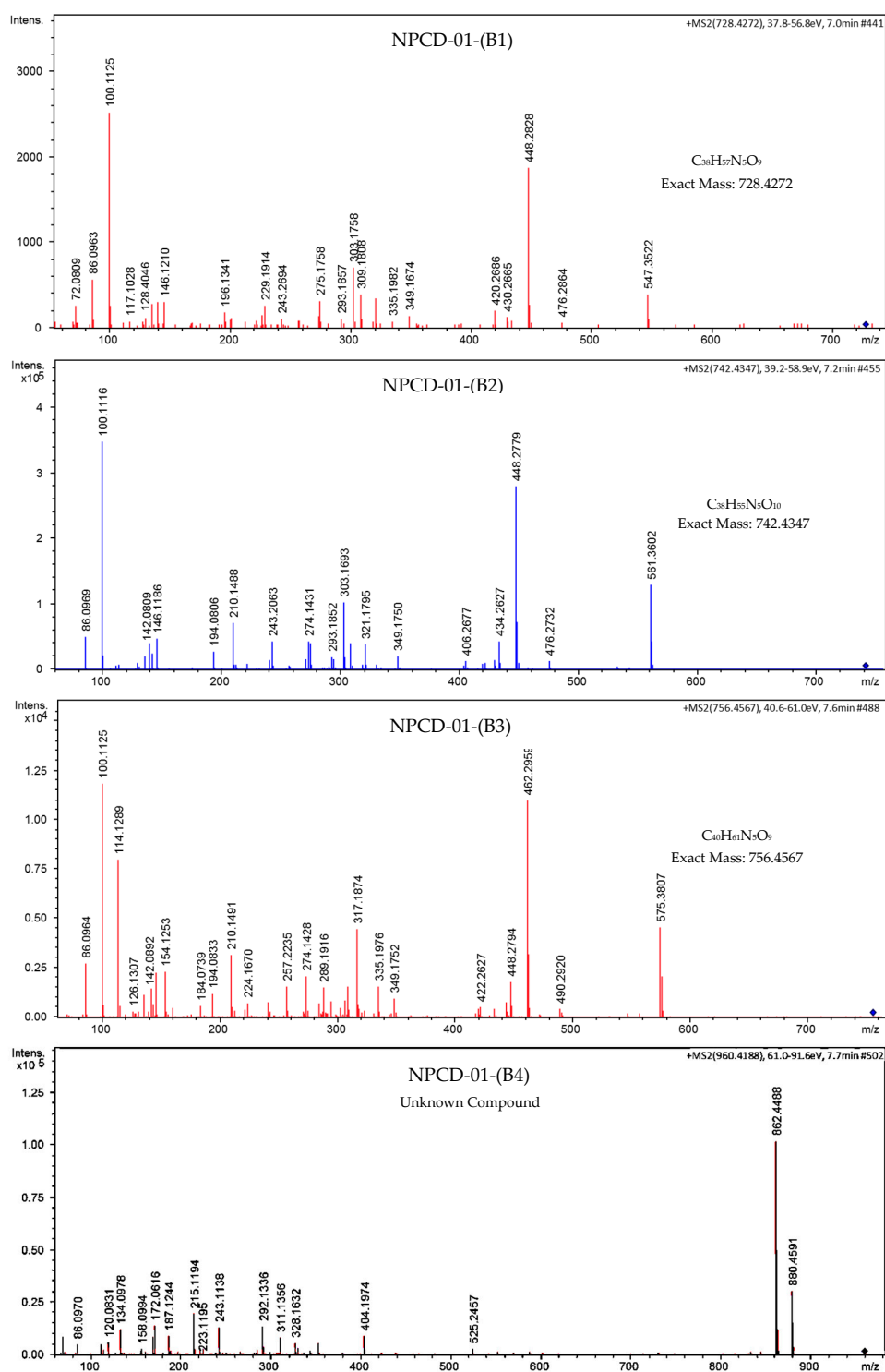


Figure S2. MS² spectra ions products of the compounds identified for the extract of strain NPCD-01. The mass spectra follow the sequence of the peaks identified in the chromatogram for the strain NPCD-01. The mass spectra are quoted as shown in Figure 1 in the text: Peak B1 = [M+H]⁺ *m/z* 728.4272 (microginin FR1), Peak B2 = [M+H]⁺ *m/z* 742.4347 (microginin FR2/FR4), Peak B3 = [M+H]⁺ *m/z* 756.4567 (microginin SD 755) and Peak B4 = [M+H]⁺ *m/z* 960.4188 unknown compound.

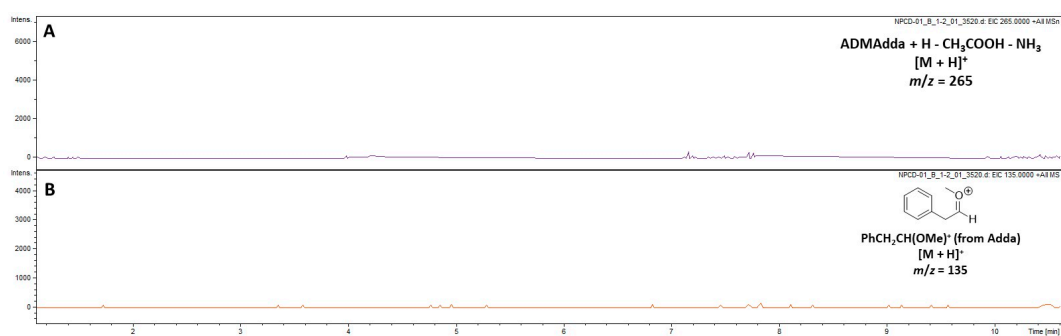


Figure S3. QTOF ESI+ Extracted ion chromatograms (EIC) of (A) ADMAdda + H - CH₃COOH - NH₃ (m/z = 265) and (B) PhCH₂CH(OMe)⁺ (m/z = 135) (from Adda), confirming the absence of MCs in the water-soluble extract of NPCD-01 strain.