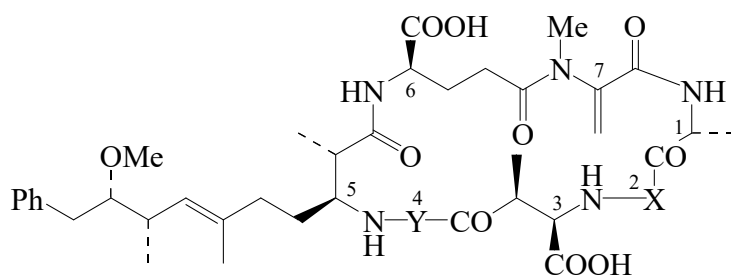




>>Entry Name: Cyanoginosin



Cyanoginosin	LA	X = L-Leu, Y = L-Ala
	LR	X = L-Leu, Y = L-Arg
	YR	X = L-Tyr, Y = L-Arg
	YA	X = L-Tyr, Y = L-Ala
	YM	X = L-Tyr, Y = L-Met
	RR	X = Y = L-Arg
	LAba	X = L-Leu, Y = L-MeAla
	FR	X = L-Phe, Y = L-Arg
	AR	X = L-Ala, Y = L-Arg

General Statement: Peptide toxin complex

Source/Synthesis: Prod. by *Microcystis aeruginosa*

Biological Use/Importance: Serine-threonine phosphatase inhibitor. Hepatotoxin; causes death to cattle

Other Data: Similar to Nodularin [JJV70-Z](#)

Hazard & Toxicity: Highly toxic, LD₅₀ 0.056 mg/kg (mice)

>>Variant: Cyanoginosin LA

Synonym(s): Aeruginosin. Microcystin LA. Toxin BE 4

CAS Registry Number: 96180-79-9

Molecular Formula: C₄₆H₆₇N₇O₁₂

Molecular Weight: 910.075

Accurate Mass: 909.484773

Percentage Composition: C 60.71%; H 7.42%; N 10.77%; O 21.10%

Physical Description: No phys. props. reported

>>Variant: Cyanoginosin LR

Synonym(s): Akerstox. Microcystin LR. Toxin BE 2. Toxin T 17. Toxin I(MA)

CAS Registry Number: 101043-37-2

Molecular Formula: C₄₉H₇₄N₁₀O₁₂

Molecular Weight: 995.183

Accurate Mass: 994.54877

Percentage Composition: C 59.14%; H 7.49%; N 14.07%; O 19.29%

Physical Description: No phys. props. reported

UV: [neutral] λ_{max} 238 (ε 33000) (MeOH) (Derep)

Sigma: M5407

>>Derivative: 1-D-Leucine analogue

Synonym(s): [D-Leu¹]Microcystin LR. [D-Leu¹]Cyanoginosin LR

Molecular Formula: C₅₂H₈₀N₁₀O₁₂

Molecular Weight: 1037.264

Accurate Mass: 1036.59572

Percentage Composition: C 60.21%; H 7.77%; N 13.50%; O 18.51%

Biological Source: Isol. from *Microcystis* RST9501

Physical Description: Amorph. solid