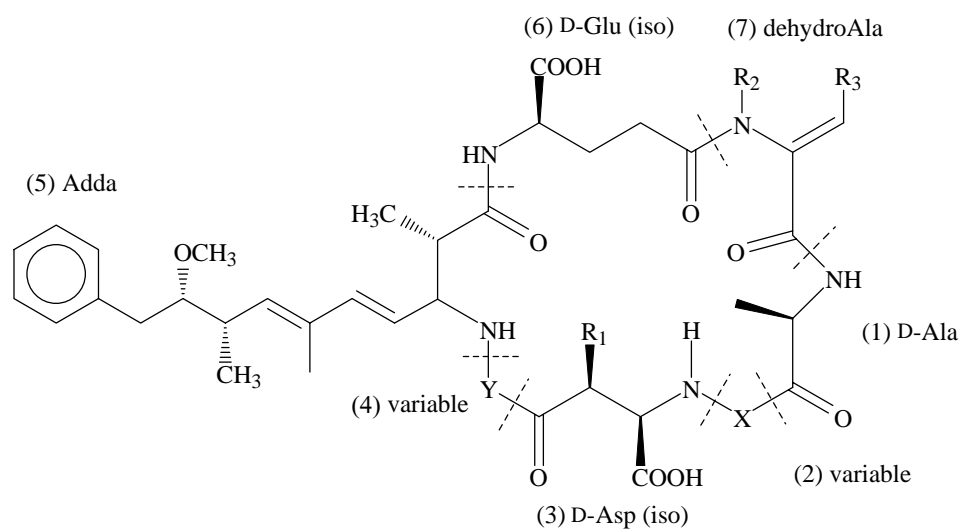


**Monoclonal Antibody to Microcystins (Adda selective) (AD4G2)
(Prod. No. ALX-804-585)**

Chemical Structure of Microcystins and their derivatives:



Microcystin Derivatives	R ₁ (3)	X (2)	Y (4)	R ₂ (7)	R ₃ (7)
Microcystin-LR	CH ₃	Leu	Arg	CH ₃	H
Microcystin-RR	CH ₃	Arg	Arg	CH ₃	H
Microcystin-YR	CH ₃	Tyr	Arg	CH ₃	H
Microcystin-LA	CH ₃	Leu	Ala	CH ₃	H
Microcystin-LW	CH ₃	Leu	Trp	CH ₃	H
Microcystin-LF	CH ₃	Leu	Phe	CH ₃	H
Microcystin-WR	CH ₃	Trp	Arg	CH ₃	H
Microcystin-LY	CH ₃	Leu	Tyr	CH ₃	H
3-Demethylmicrocystin-LR	H	Leu	Arg	CH ₃	H
3-Demethylmicrocystin-RR	H	Arg	Arg	CH ₃	H
3-Demethylmicrocystin-HTyrR	H	homoTyr	Arg	CH ₃	H
3-Demethyl-7-dehydrobutyrine-microcystin-RR	H	Arg	Arg	H	CH ₃

Cross-Reactivity Pattern:

Microcystin Derivatives	Cross-Reactivities [%] (molar)	Detection Limit [µg/L]
Microcystin-LR	100	0.04
[Asp ³]-Microcystin-RR	109	0.03
Microcystin-RR	70	0.07
Microcystin-YR	129	0.04
Nodularin	163	0.03
Microcystin-LY	103	0.06
Microcystin-LF	69	0.14
Microcystin-LW	84	0.09
Microcystin-LA	66	0.06
Adda	27	0.09
N-Acetyl-Adda	25	0.14
N-Acetyl-Adda-methylamide	99	0.02

Literature Reference:

Generic microcystin immunoassay based on monoclonal antibodies against Adda:
A. Zeck, et al.; *Analyst.* **126**, 2002 (2001)