

# Apoptotic Activity of New Oxisterigmatocystin Derivatives from the Marine-Derived Fungus *Aspergillus nomius* NC06

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## Supplementary Information

### Oxisterigmatocystin J (1)

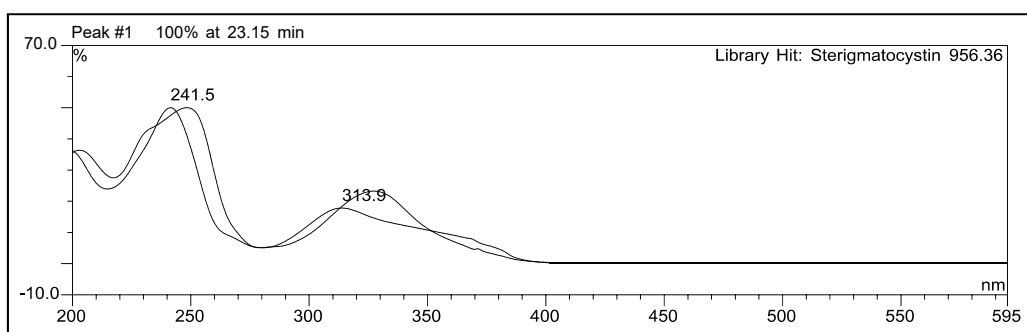


Figure S1. UV spectrum of oxisterigmatocystin J.

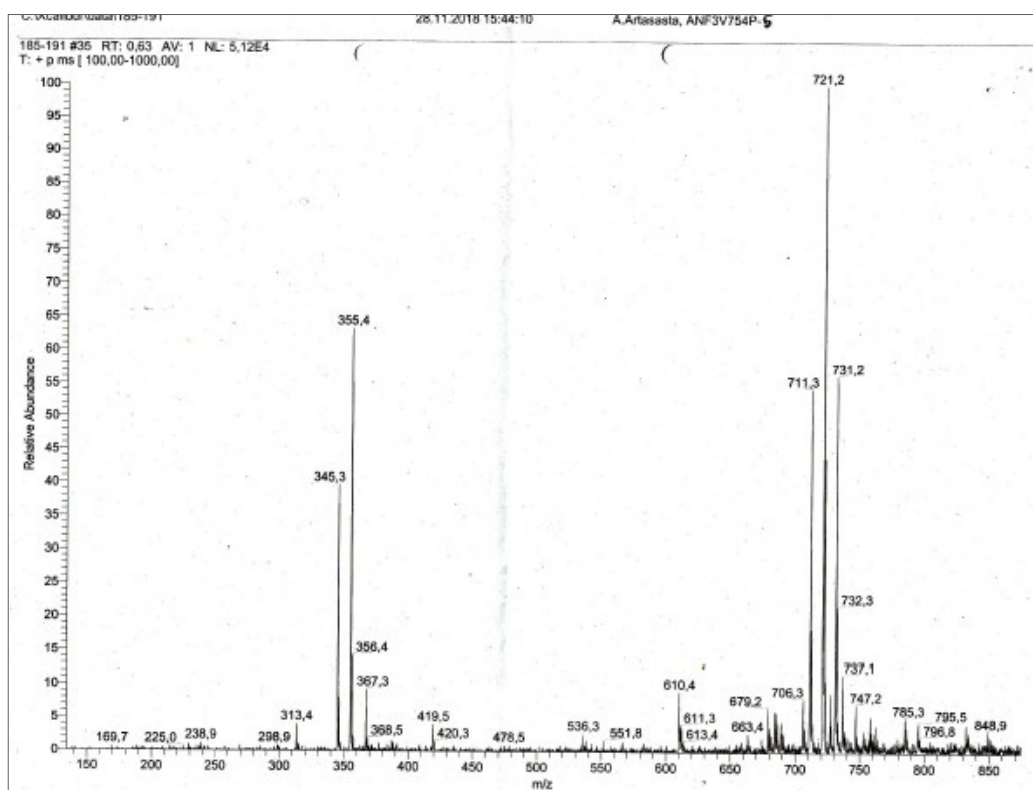
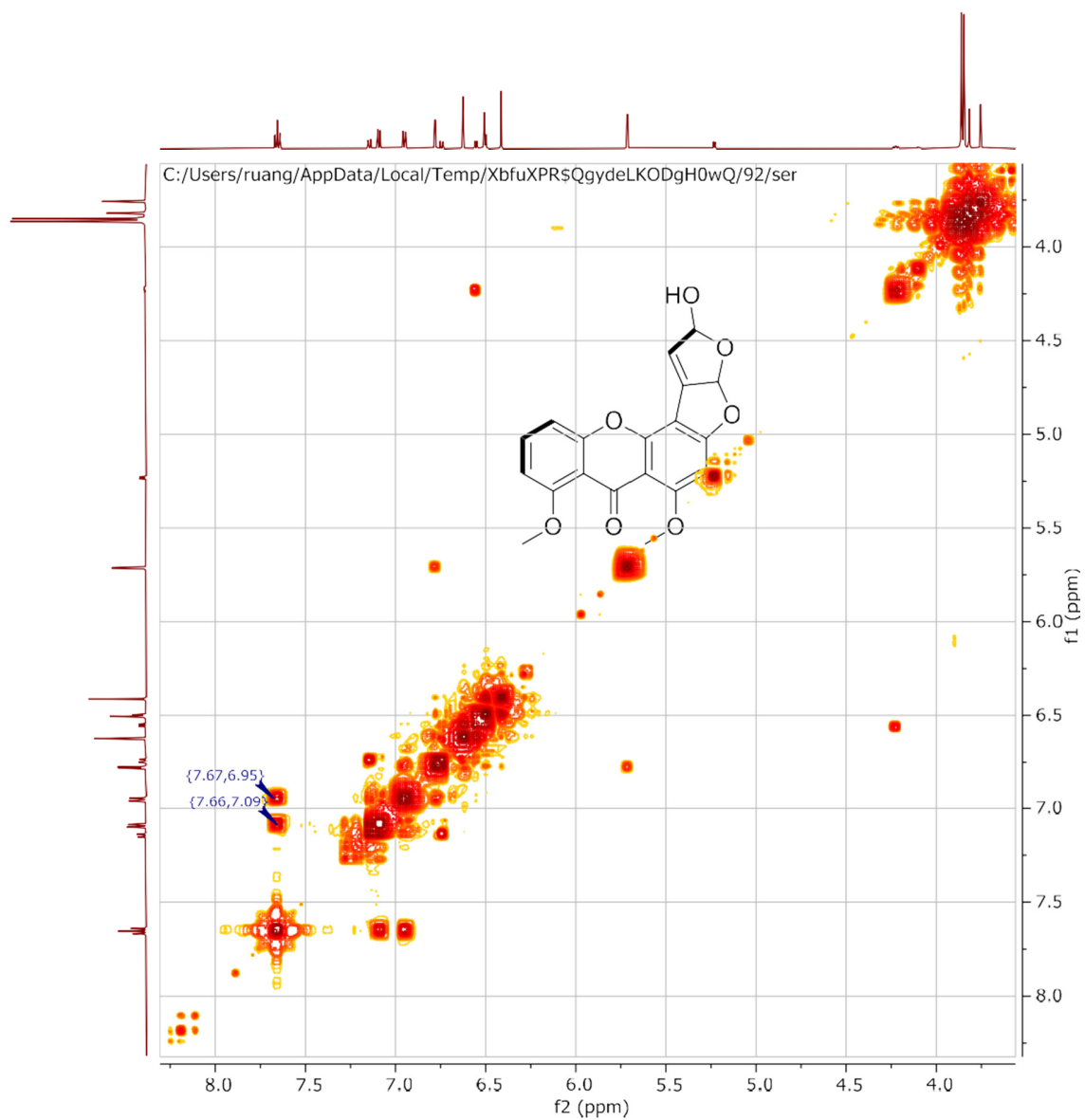
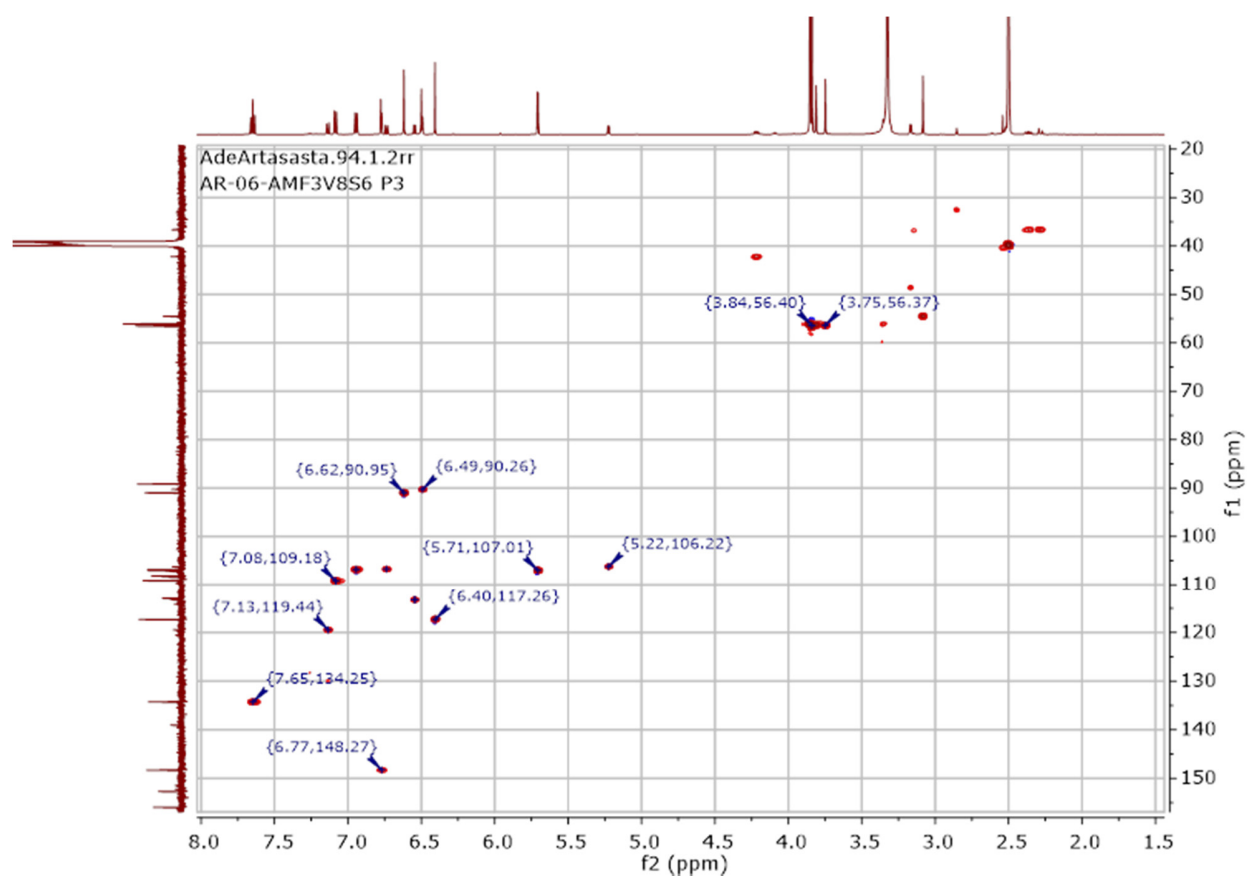


Figure S2. MS spectrum of oxisterigmatocystin J with  $m/z$  ion of  $[M + H]^+$  355.4.

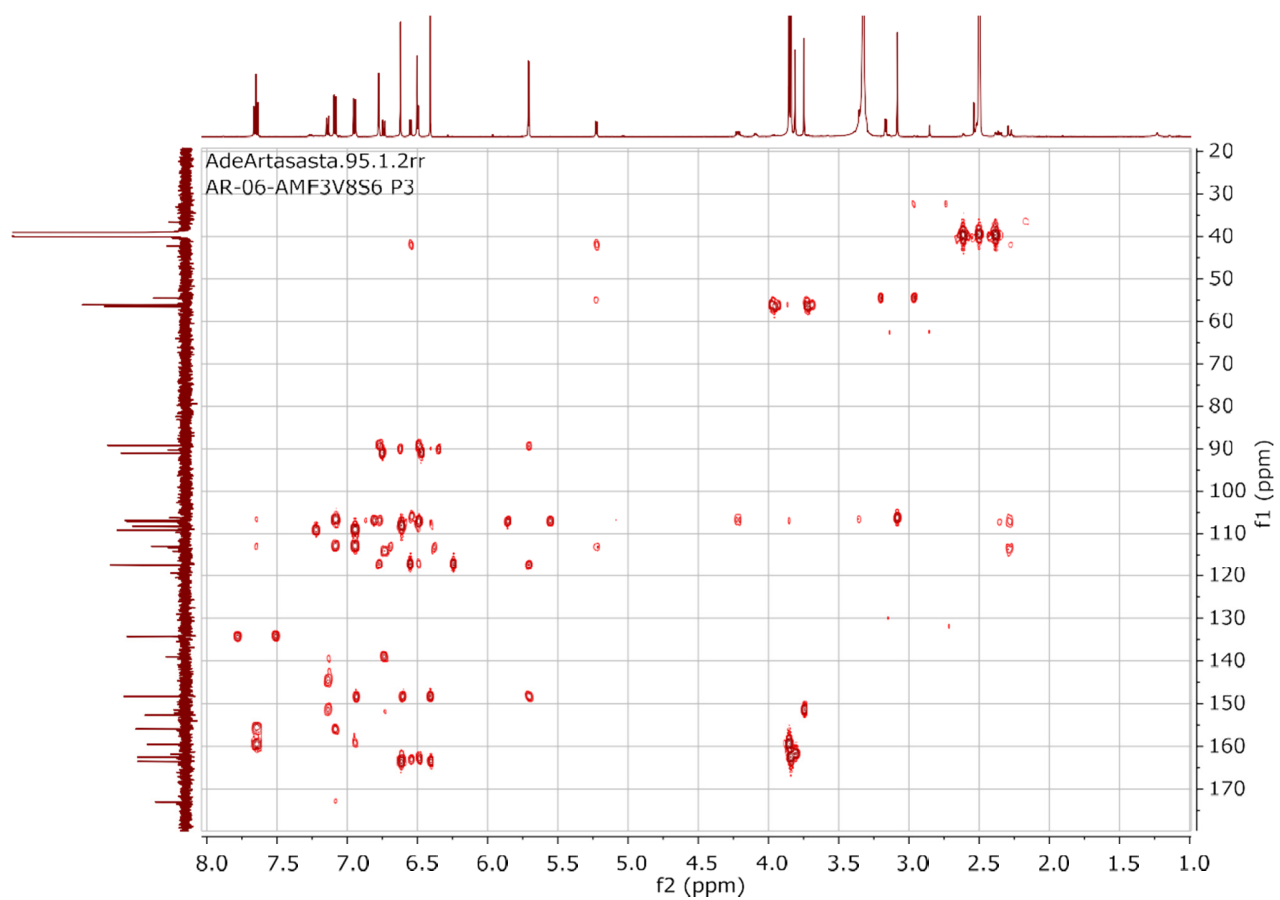




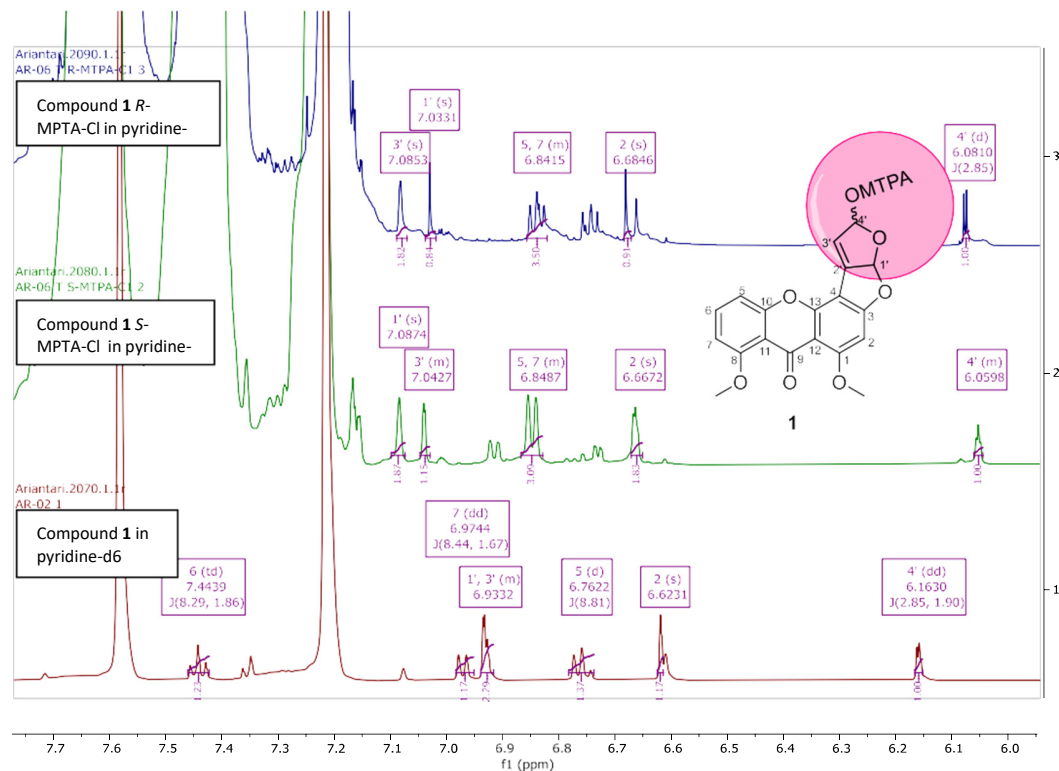
**Figure S4.** COSY spectrum of oxisterigmatocystin J; proton correlations were shown in black thick bonds.



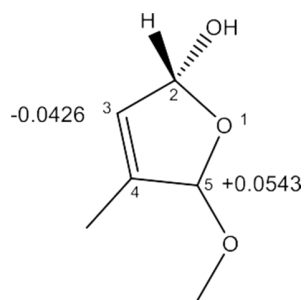
**Figure S5.** HSQC spectrum of oxisterigmatocystin J.



**Figure S6.** HMBC spectrum of oxisterigmatocystin J.



Protons	H-1'	H-3'
( <i>S</i> )	7.0874	7.0427
( <i>R</i> )	7.0331	7.0853
$S-R =$		
( <i>S</i> ) –	+0.0543	-0.0426
( <i>R</i> )		



(2*R*)-5-methoxy-4-methyl-2,5-dihydrofuran-2-ol

**Figure S7.** Mosher results for oxisterigmatocystin J (**1**), spectral assignments were confirmed by <sup>1</sup>H-<sup>1</sup>H COSY.

## Oxisterigmatocystin K (2)

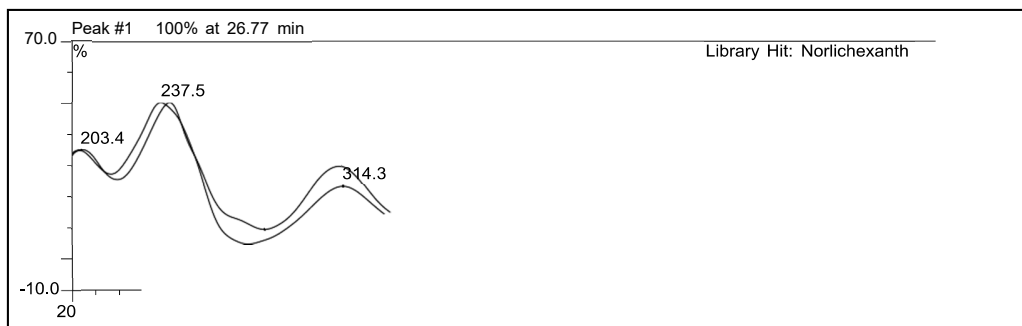


Figure S8. UV spectrum of oxisterigmatocystin K.

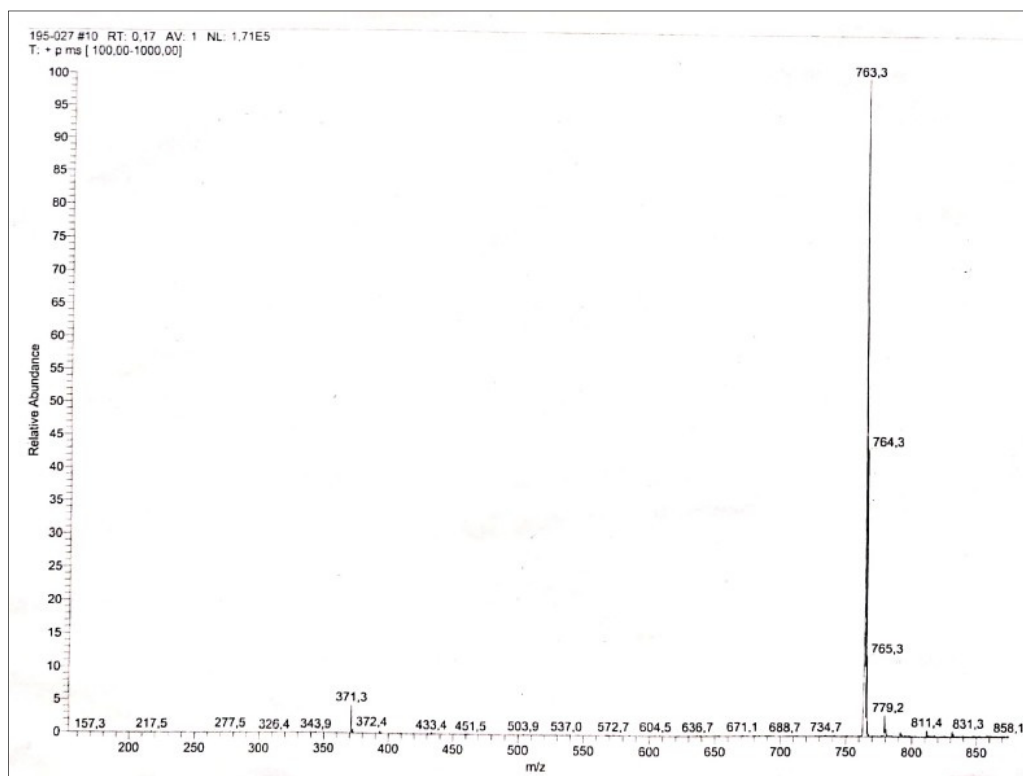


Figure S9. Mass spectrum of oxisterigmatocystin K with m/z ion of  $[M + H]^+$  371.3.



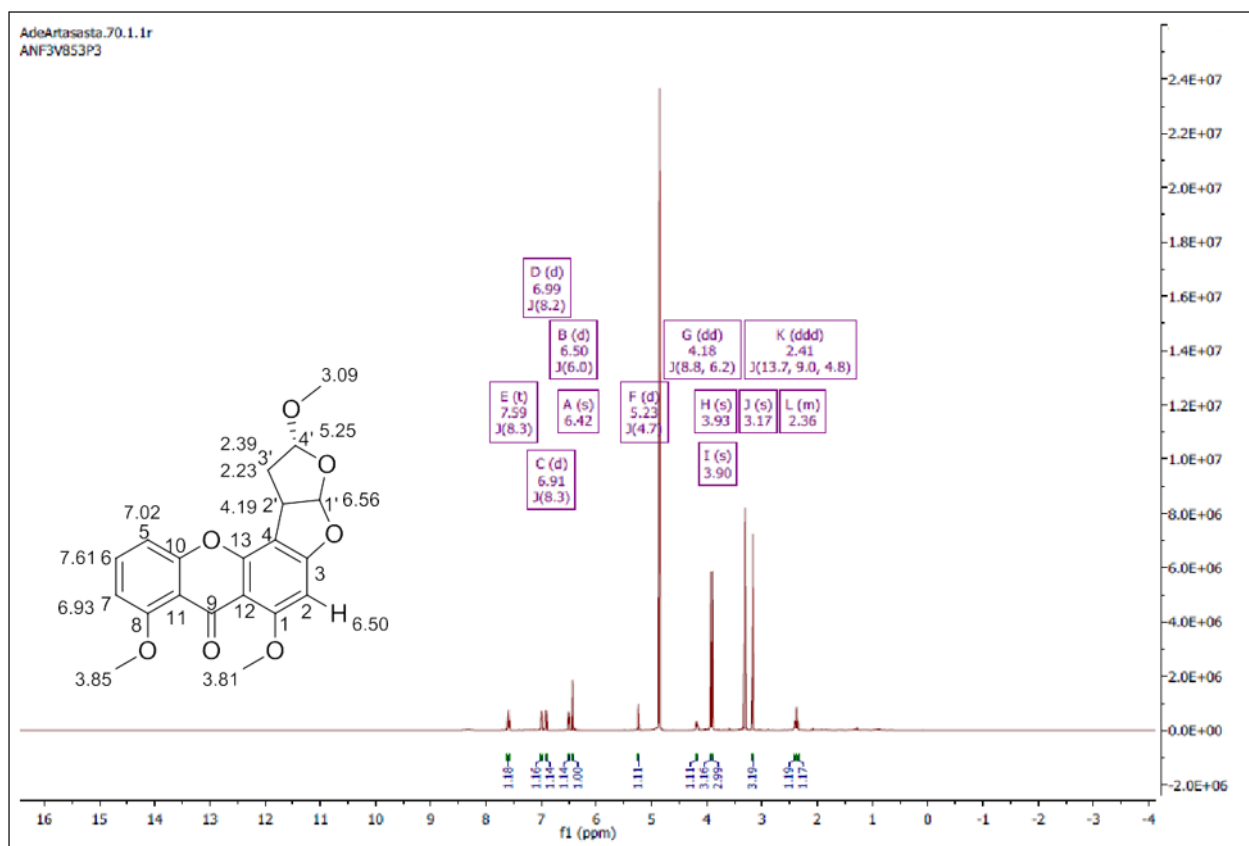
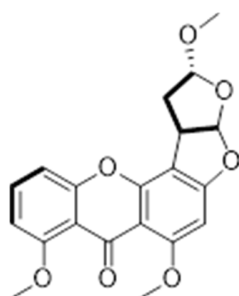
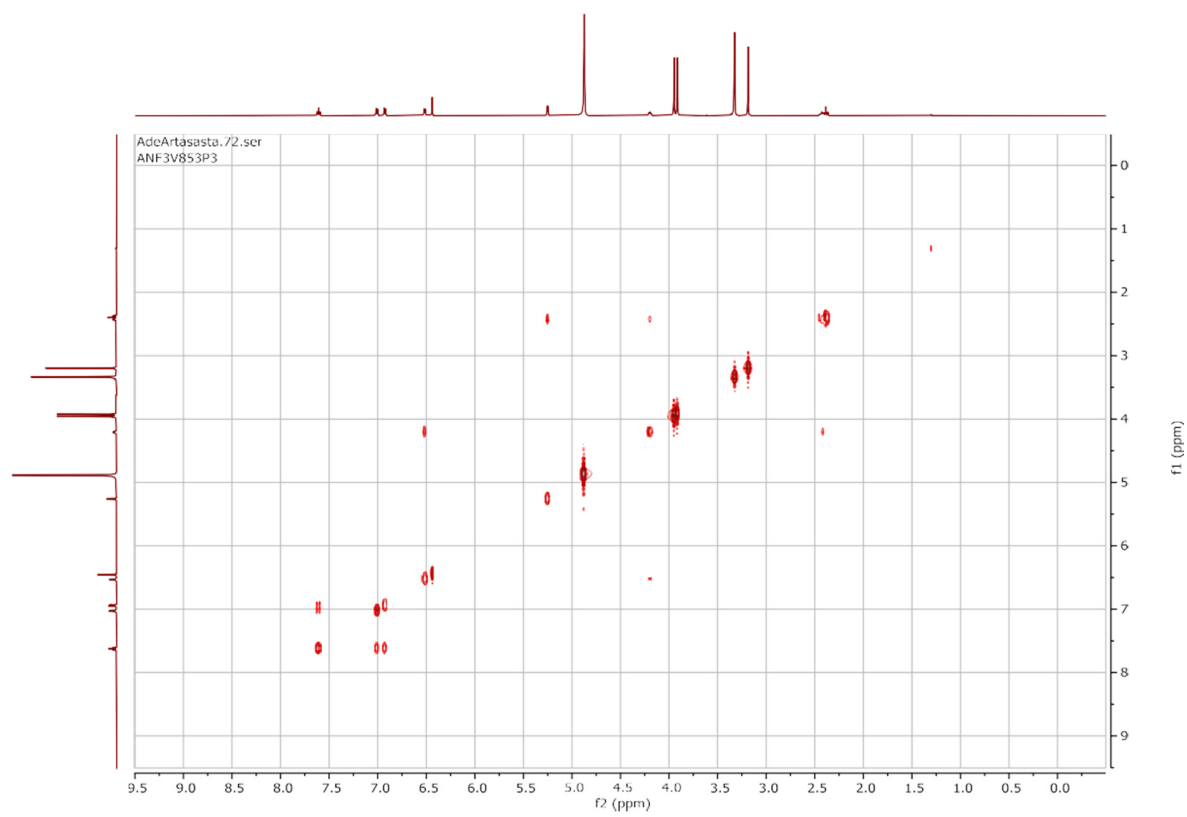
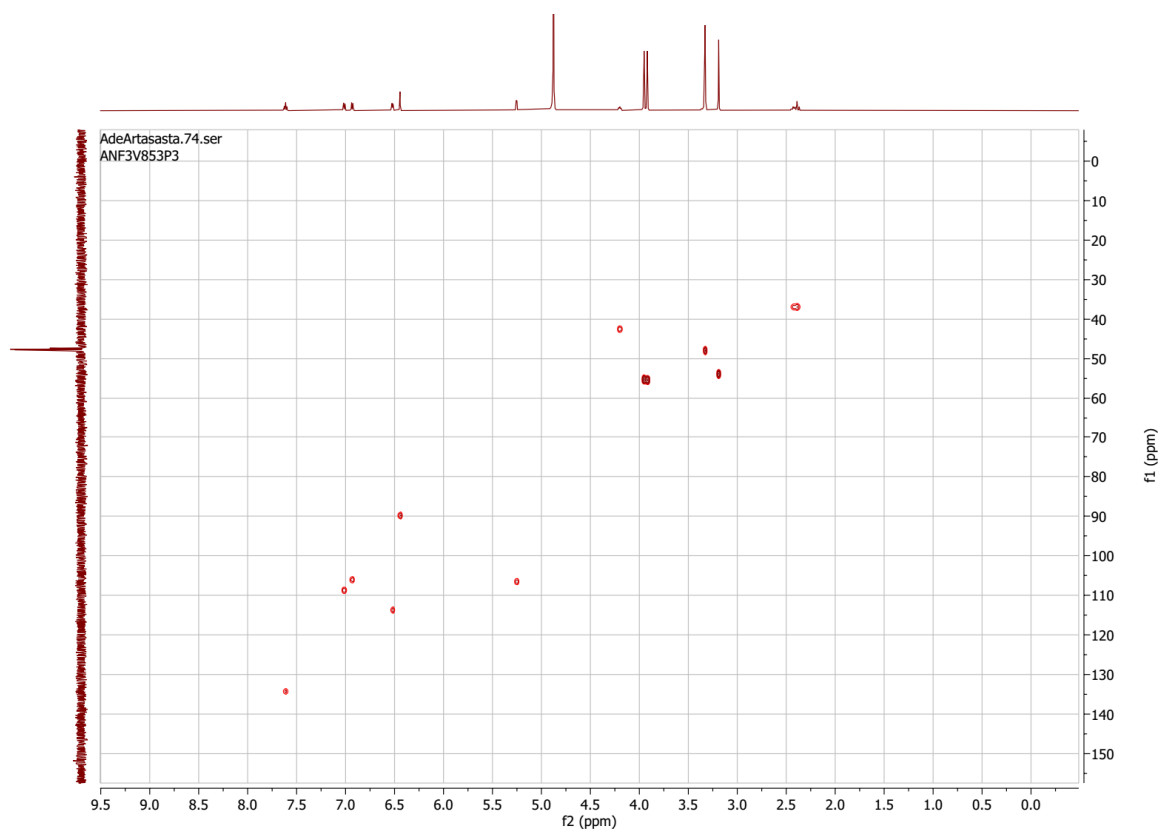


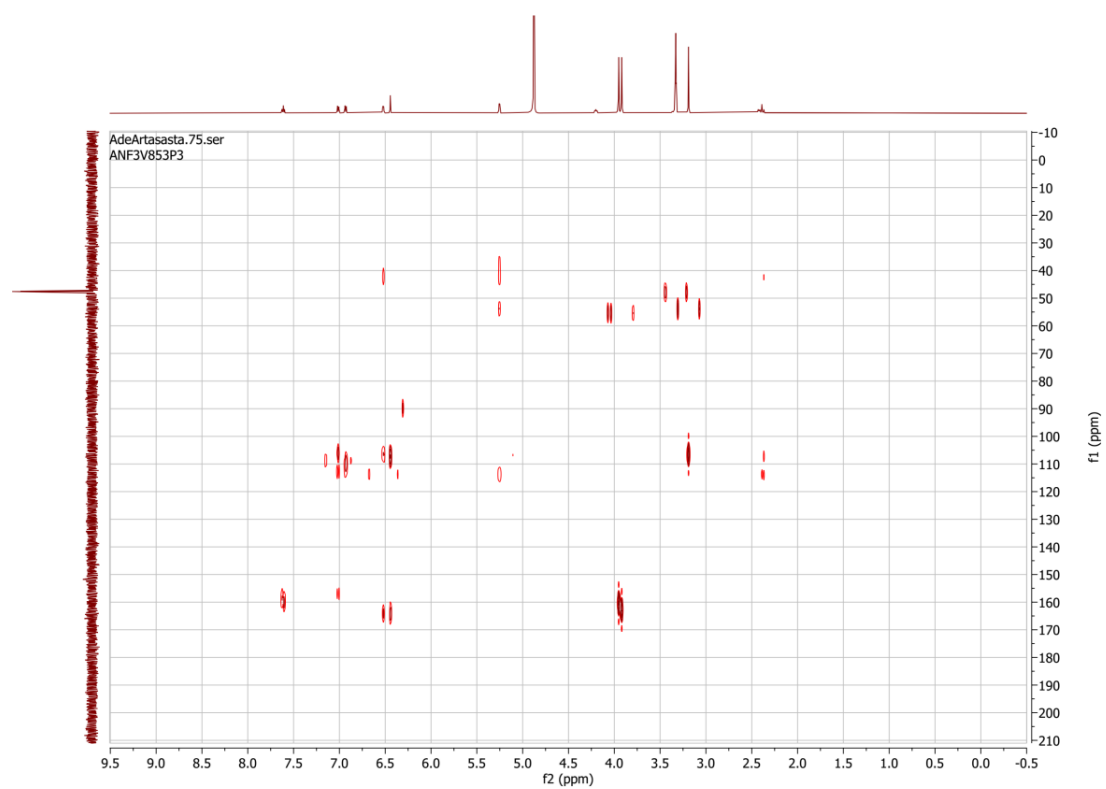
Figure S10. <sup>1</sup>H-NMR spectrum of oxisterigmatocystin K.



**Figure S11.** COSY spectrum of oxisterigmatocystin K; proton correlations were shown in black.



**Figure S12.** HSQC spectrum of oxisterigmatocystin K.



**Figure S13.** HMBC spectrum of oxisterigmatocystin K.

### Oxisterigmatocystin L (3)

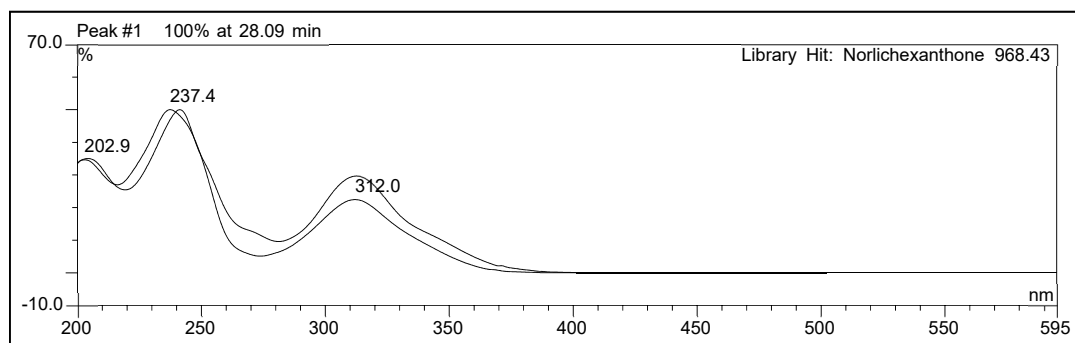


Figure S14. UV spektrum of oxisterigmatocystin L.

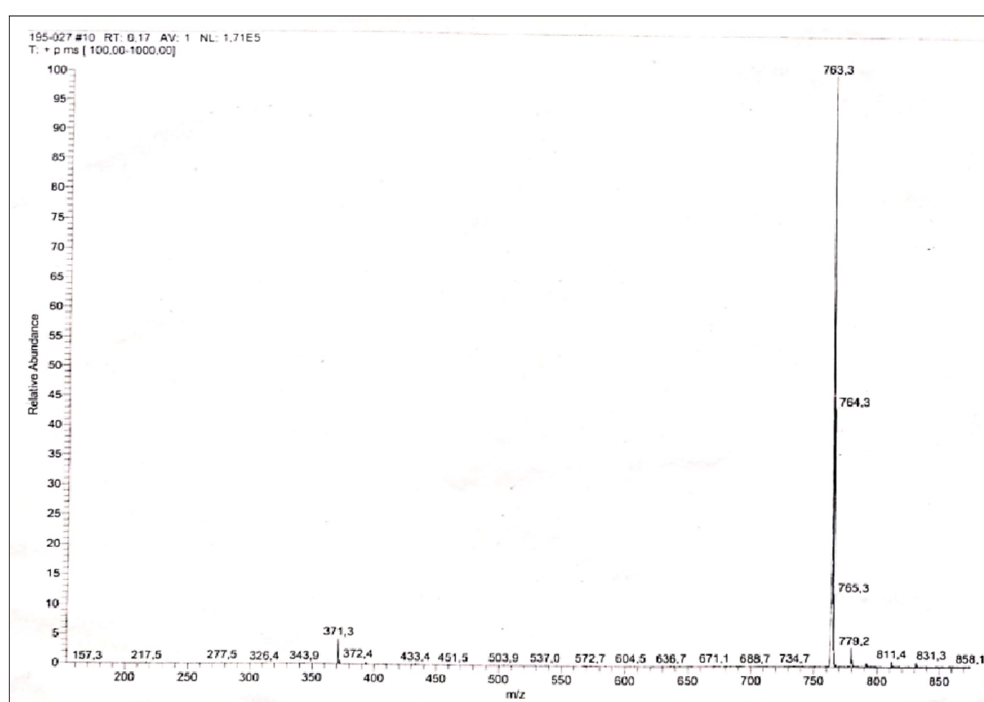


Figure S15. Mass spektrum of oxisterigmatocystin L with  $m/z$  ion of  $[M + H]^+$  371.3.

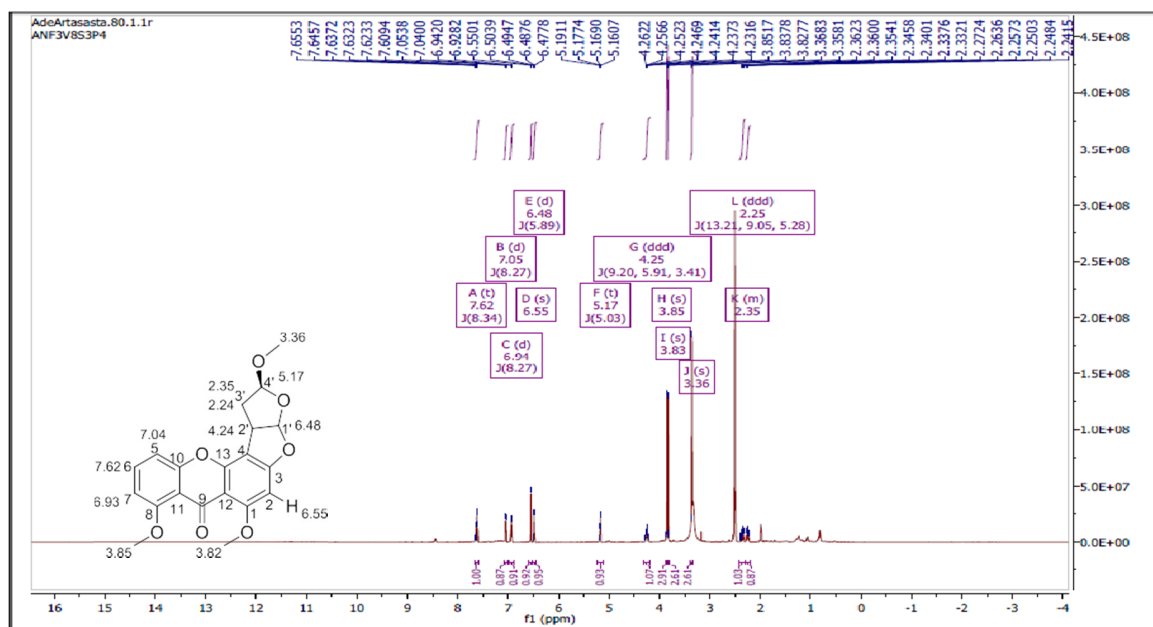
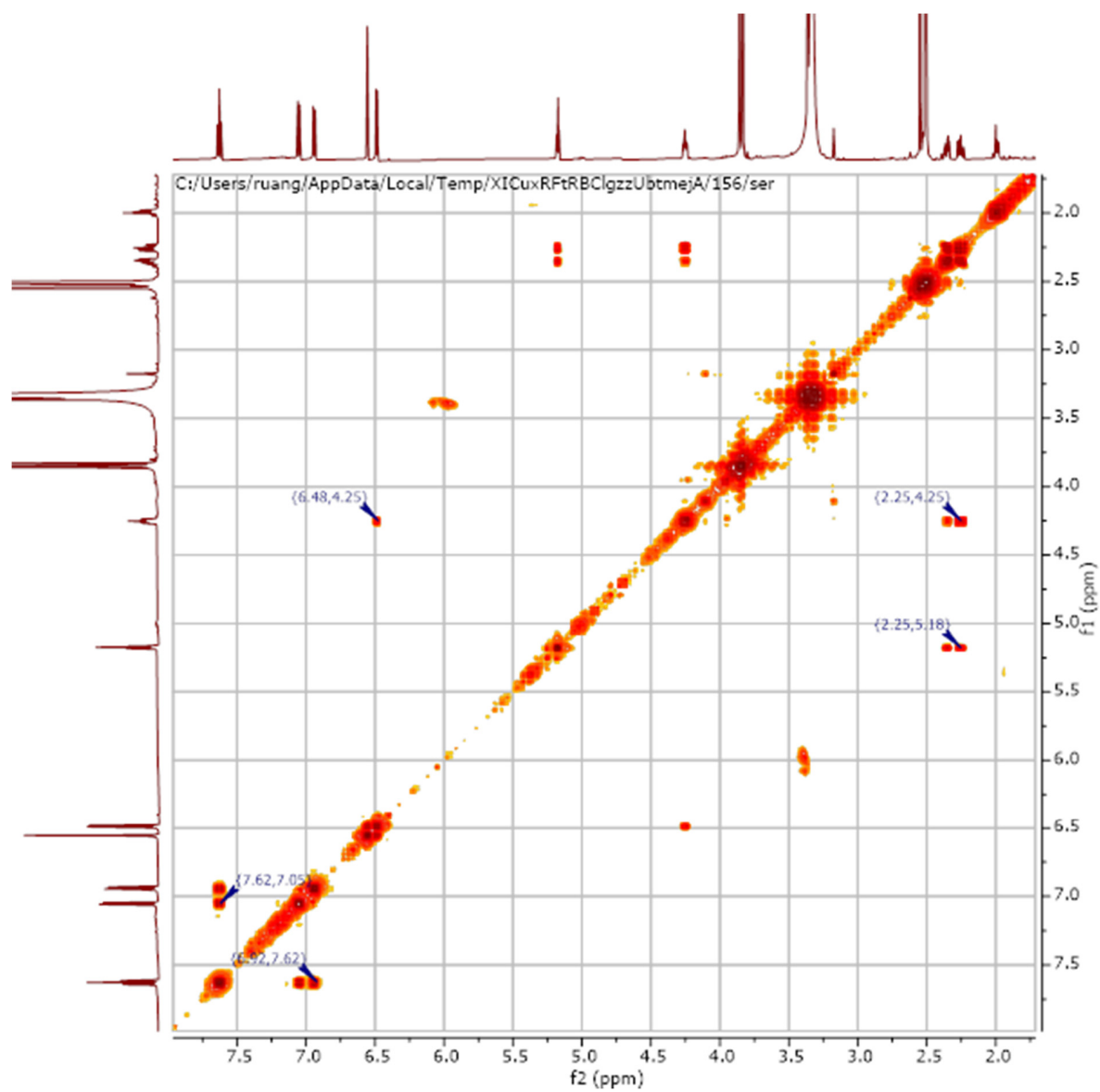
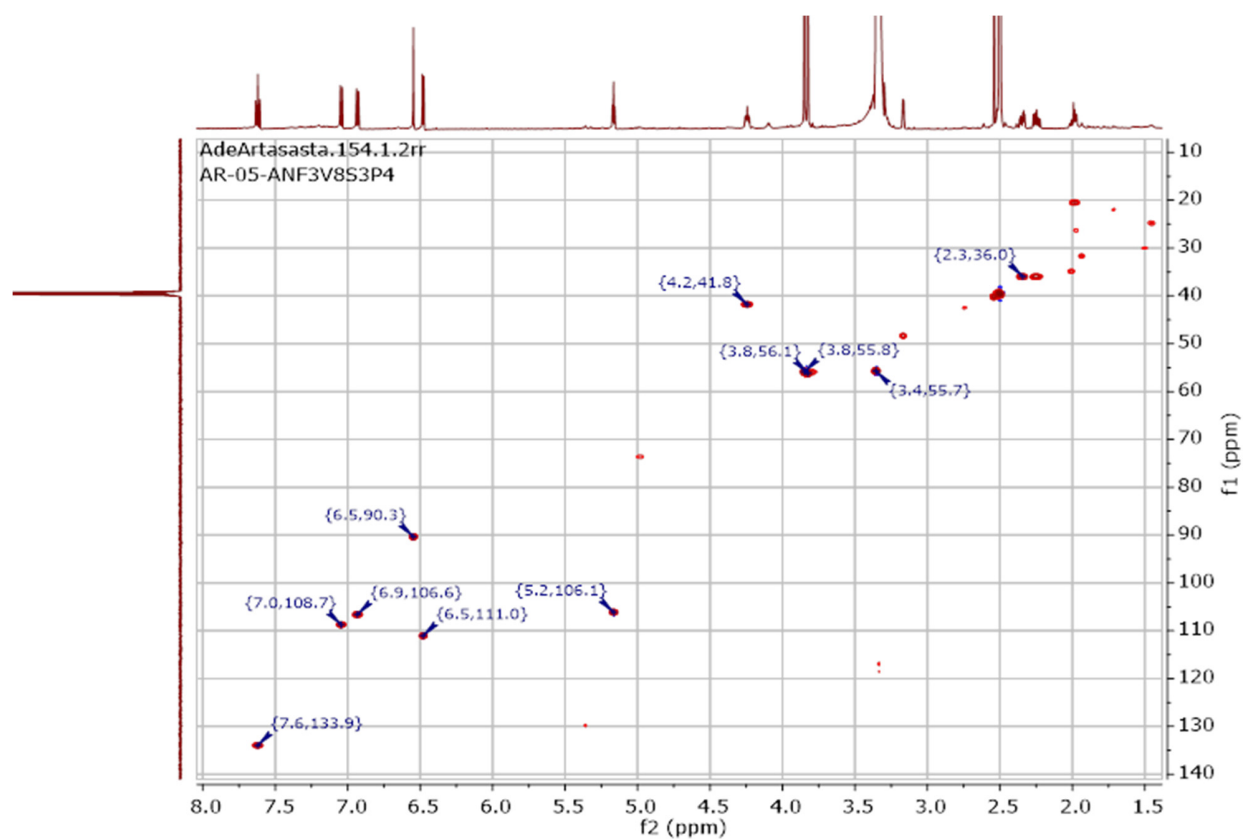


Figure S16. <sup>1</sup>H-NMR spectrum of oxisterigmatocystin.



**Figure S17.** COSY spectrum of oxisterigmatocystin L.



**Figure S18.** HSQC spectrum of oxisterigmatocystin.



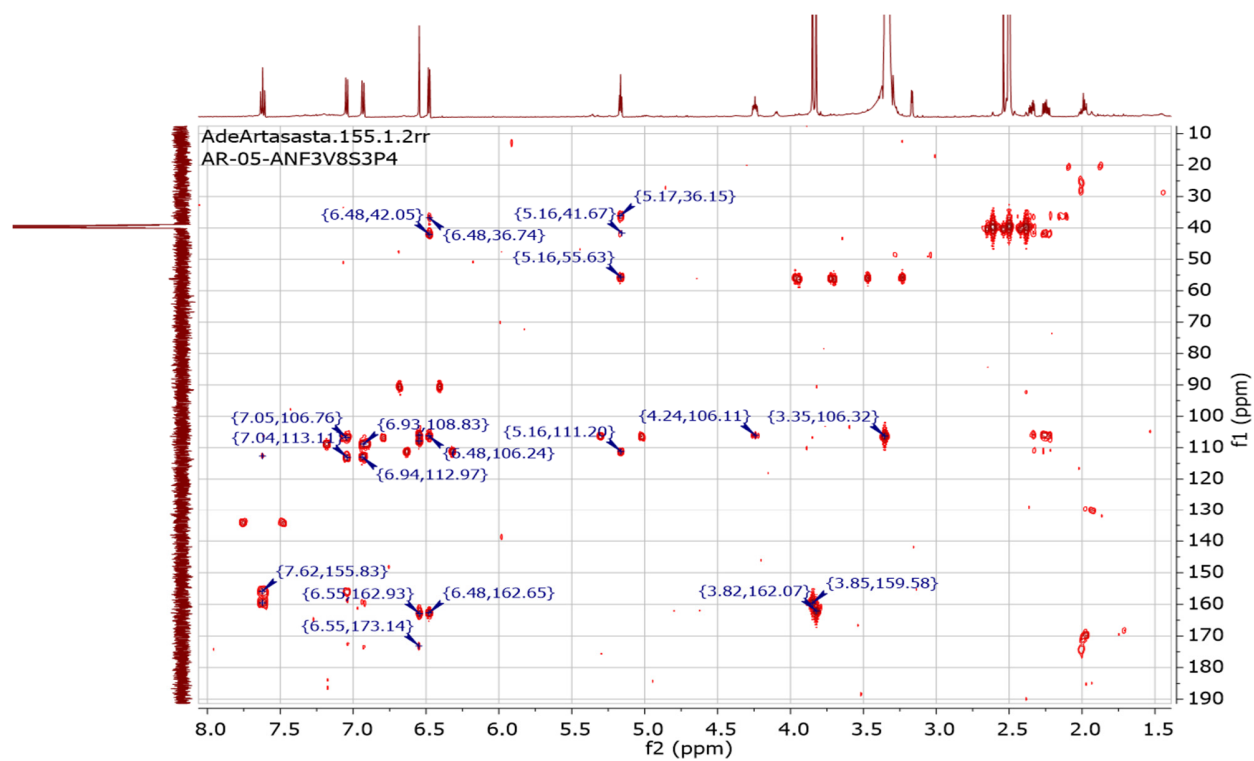
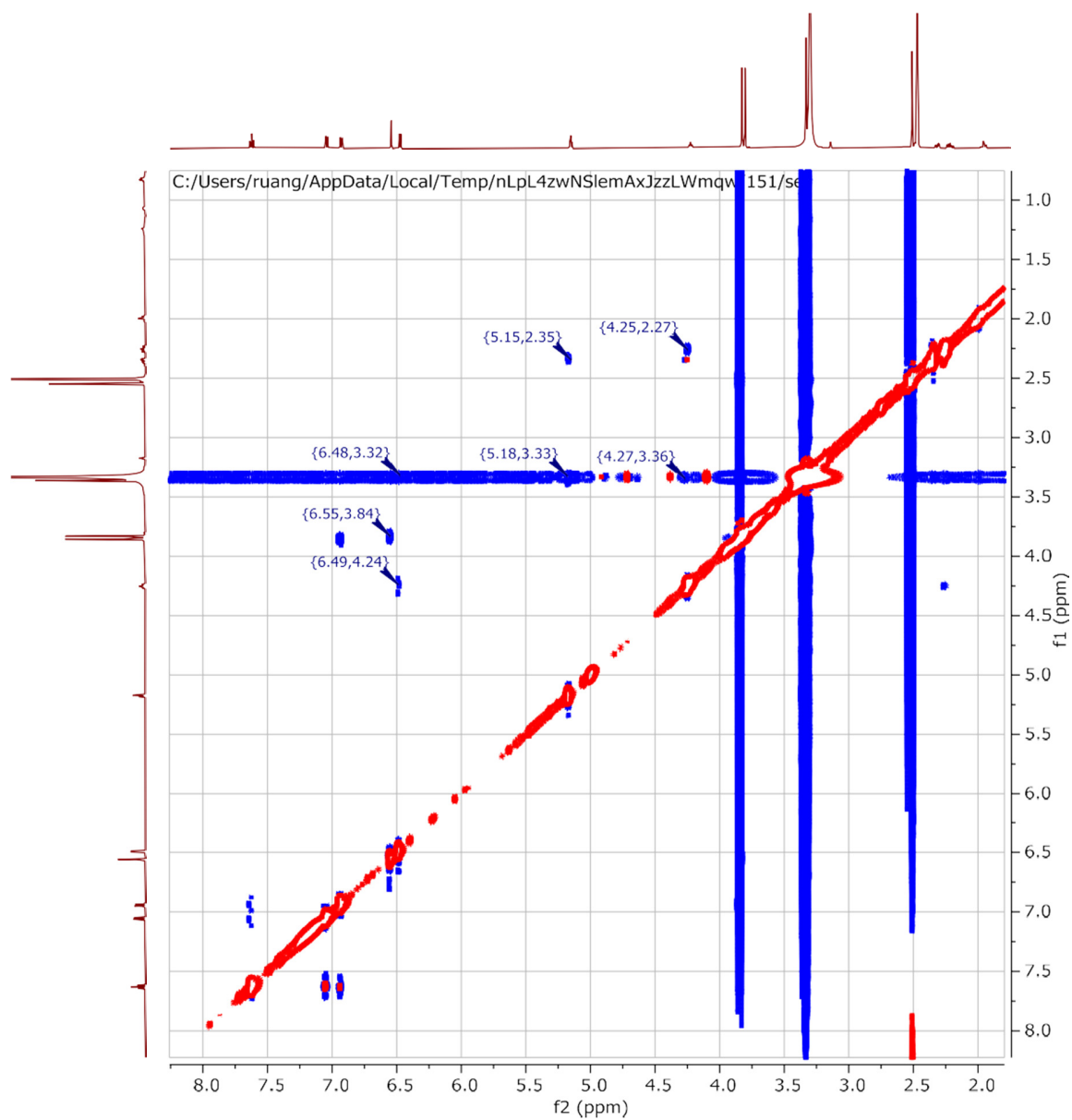


Figure S19. HMBC spectrum of oxisterigmatocystin L.



**Figure S20.** NOESY spectrum of oxisterigmatocystin L.

### Aspergillicin A (4)

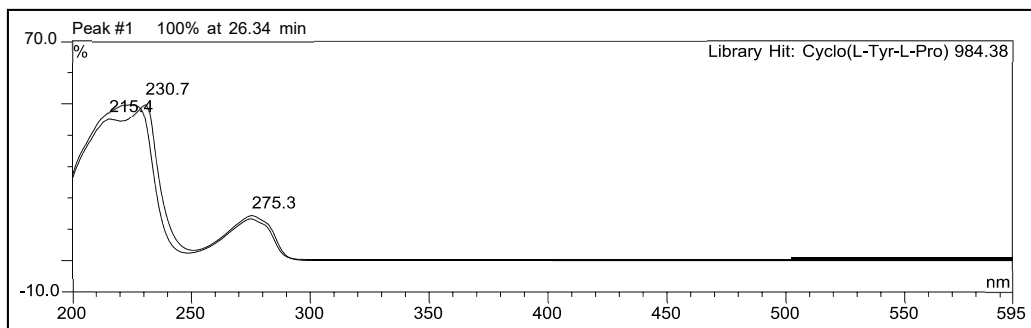


Figure S21. UV spectrum of aspergillicin A.

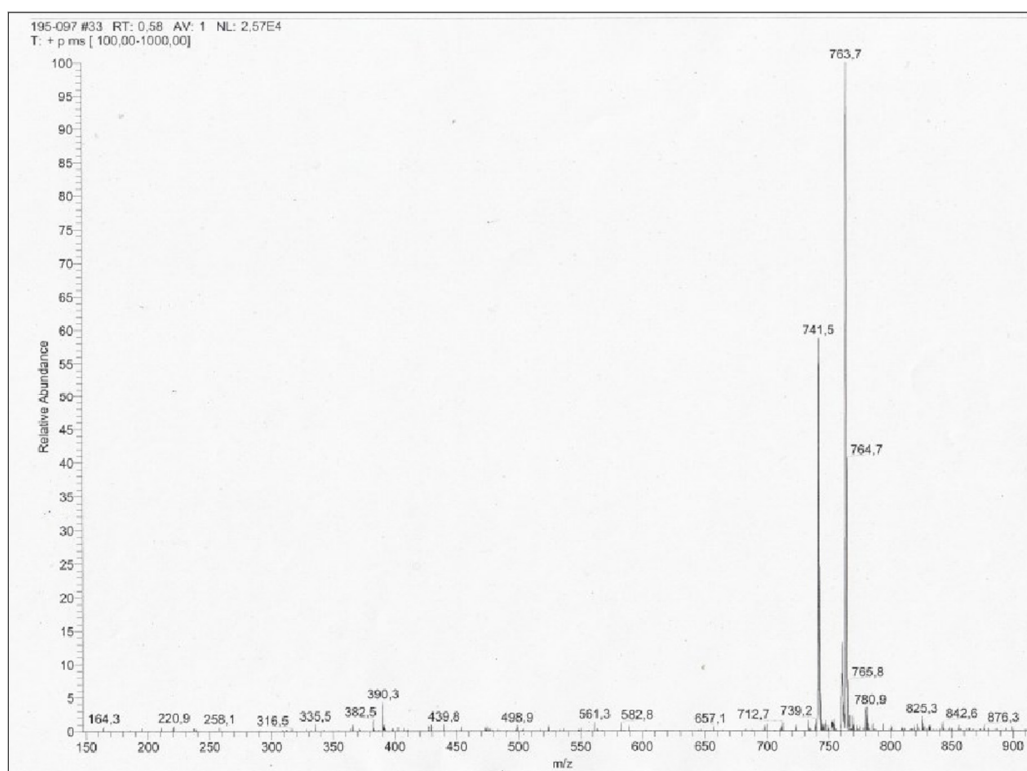
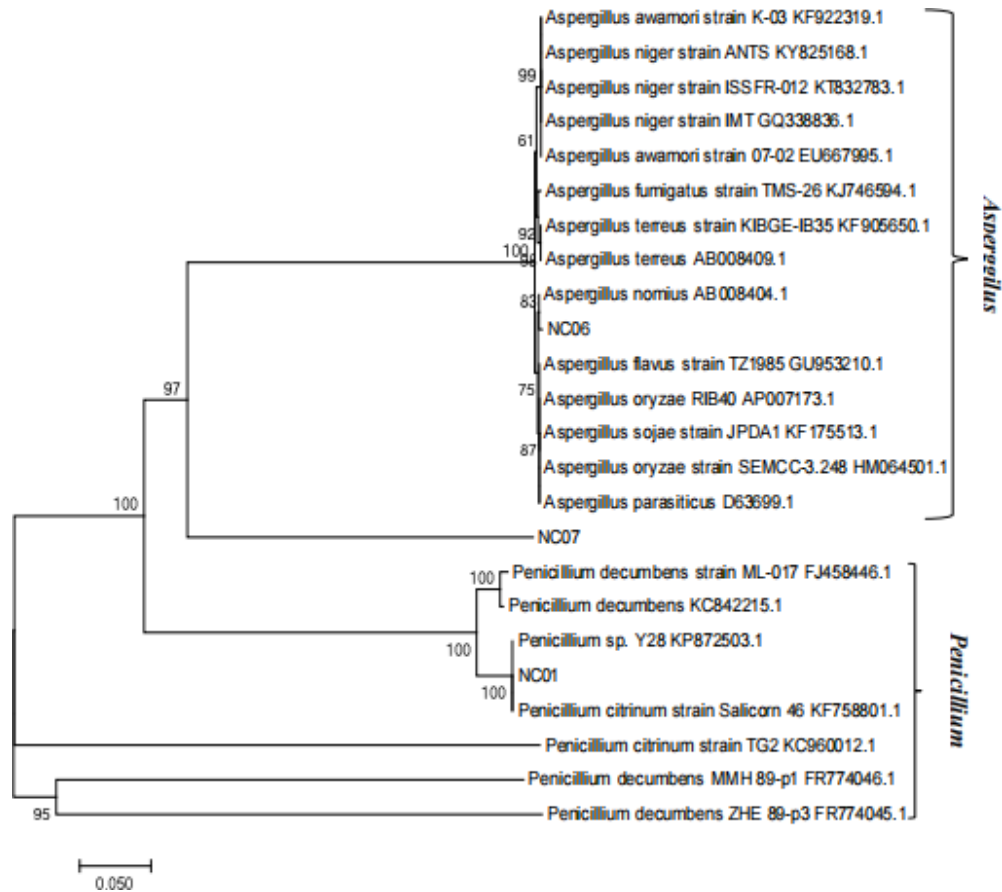


Figure S22. Mass spectrum of aspergillicin A with  $m/z$  ion of  $[M + Na]^+$  763.7.

## Phylogenetic Tree of *A. nomius* NC06



**Figure S23.** The phylogenetic tree by using neighbors-joining method of 18S Rrna.

The sequenced DNA of this fungus has been published on NCBI with accession number MN242781.1 (<https://www.ncbi.nlm.nih.gov/nucleotide/MN242781>).