

Supplementary Information

Figure S1. *Verrucosispora* sp. K51G growing in starch casein liquid media with sea salts.



Figure S2. PDA/UV profiles obtained from the HPLC/HRESIMS data of the crude extracts of *Verrucosispora* sp. K51G.

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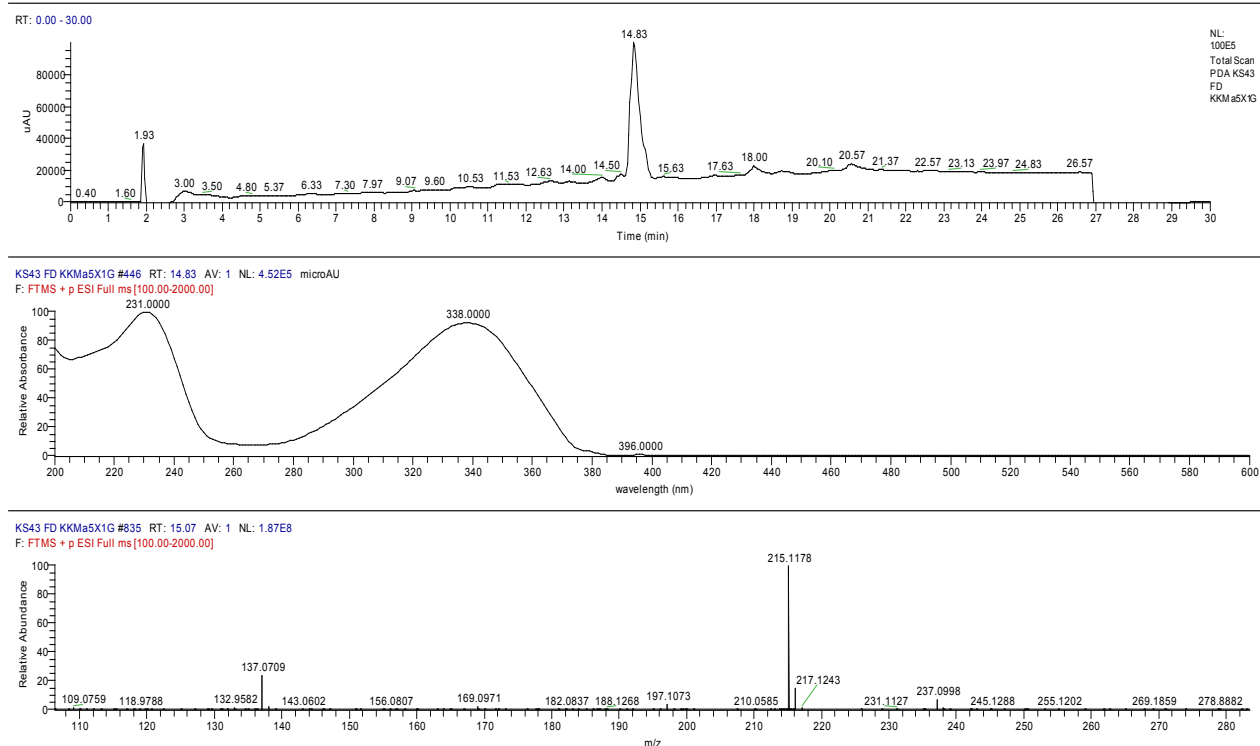


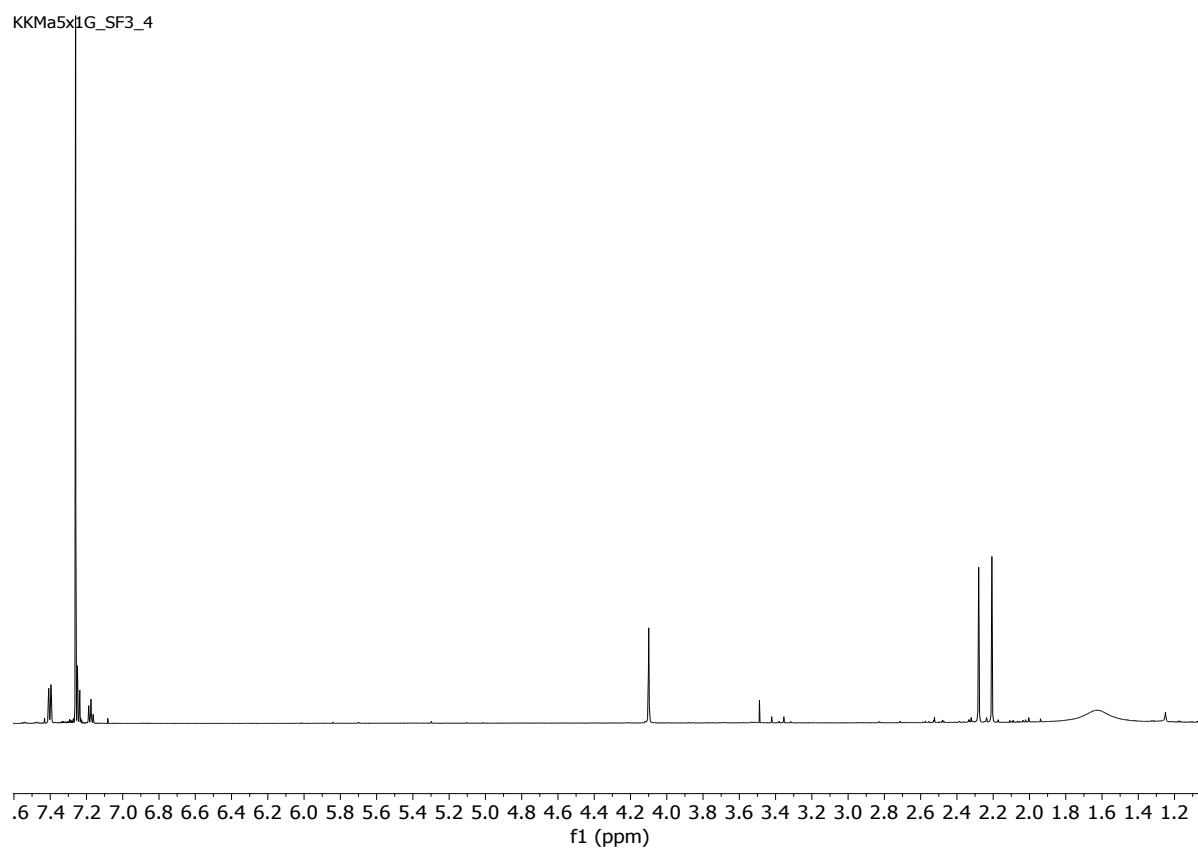
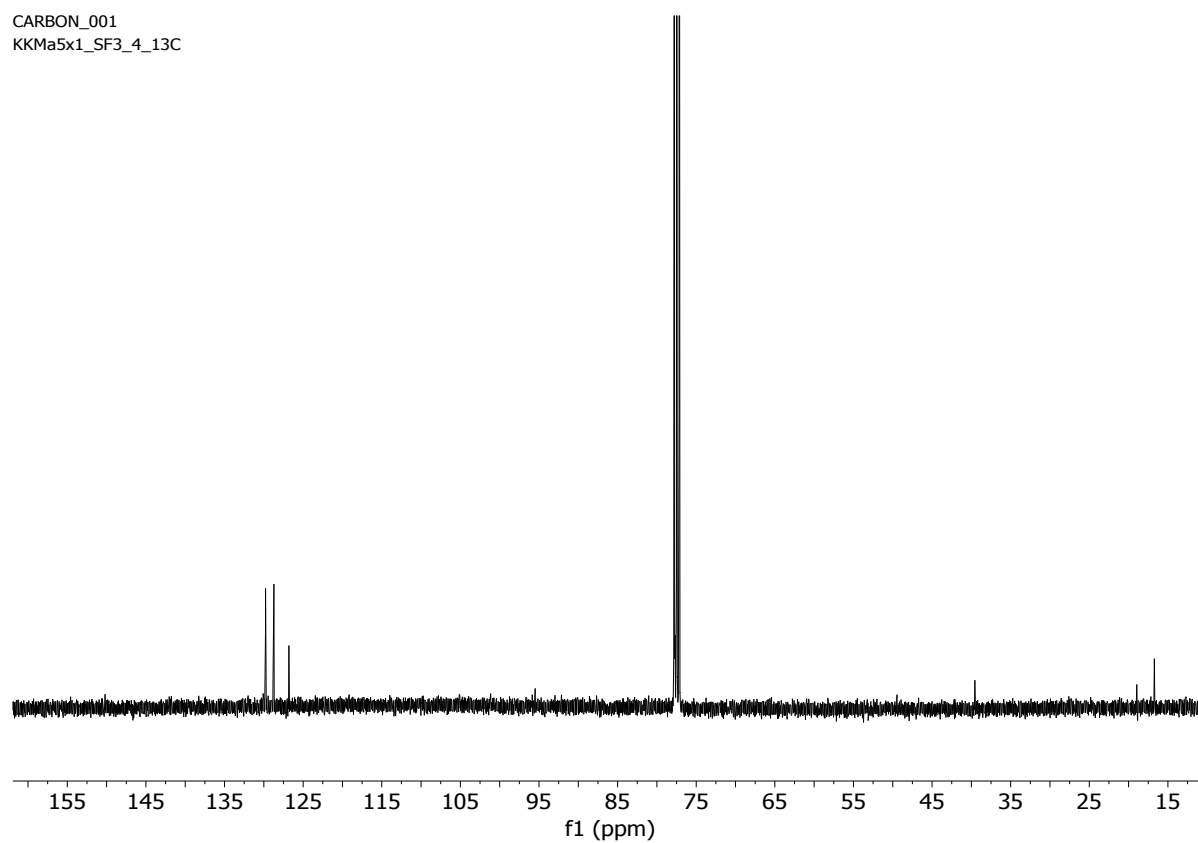
Figure S3. ^1H NMR spectrum of butrepyrazinone (**10**).**Figure S4.** ^{13}C NMR spectrum of butrepyrazinone (**10**).

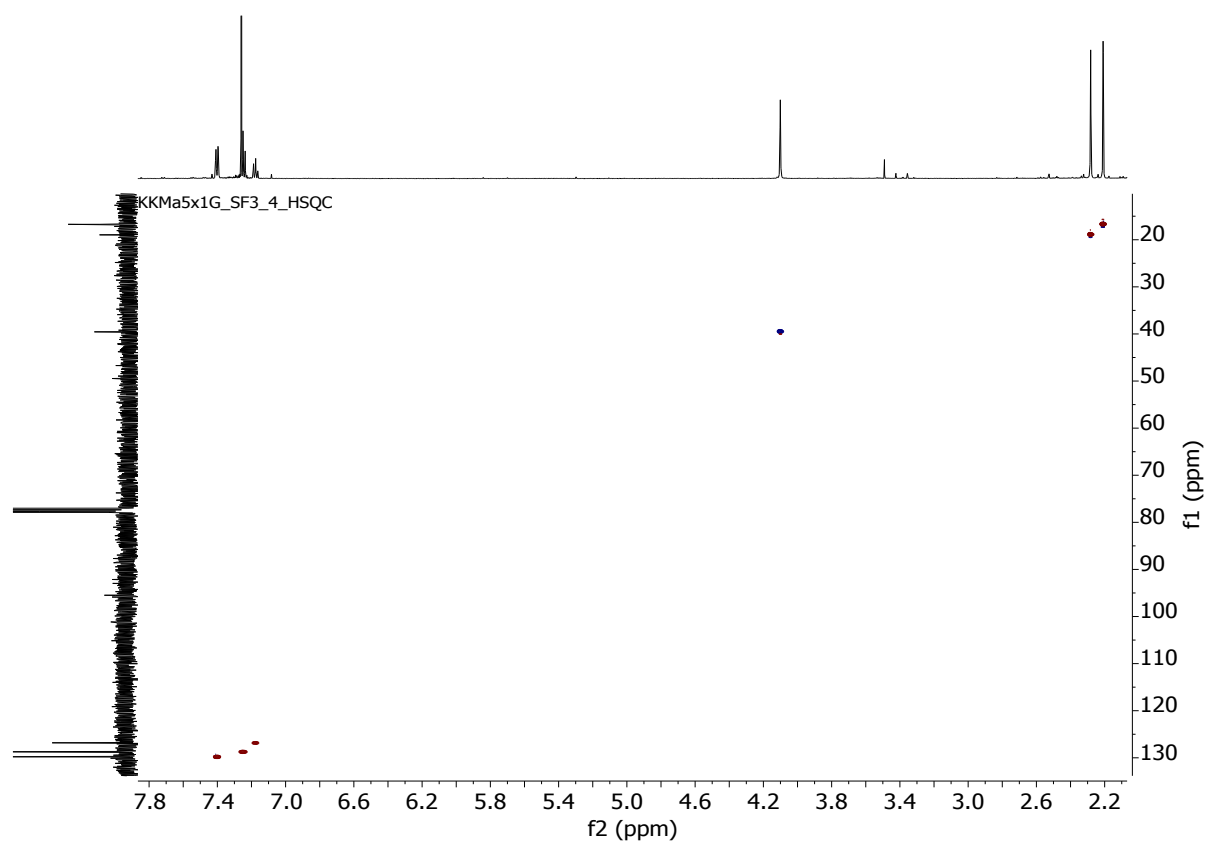
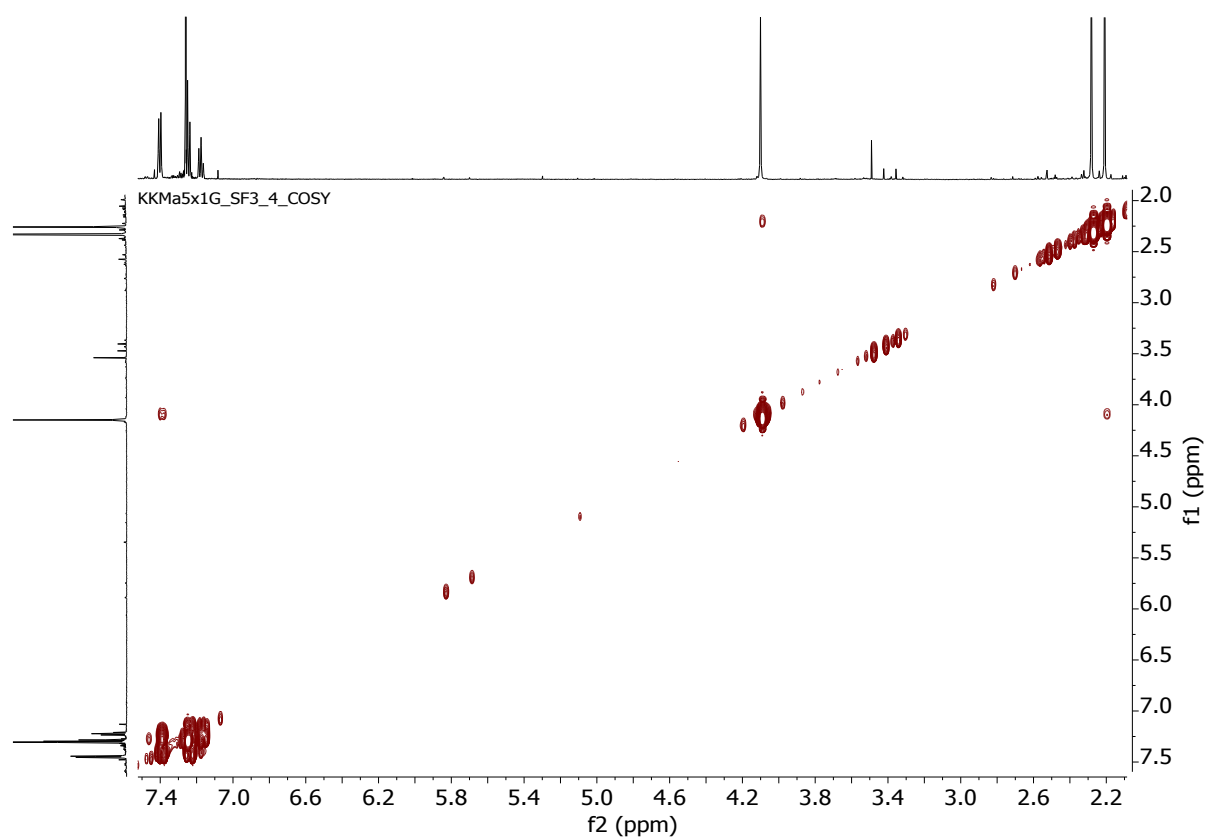
Figure S5. gHSQCAD spectrum of butrepyrazinone (**10**).**Figure S6.** ^1H - ^1H gCOSY spectrum of butrepyrazinone (**10**).

Figure S7. HMBCAD spectrum of butrepyrazinone (**10**).

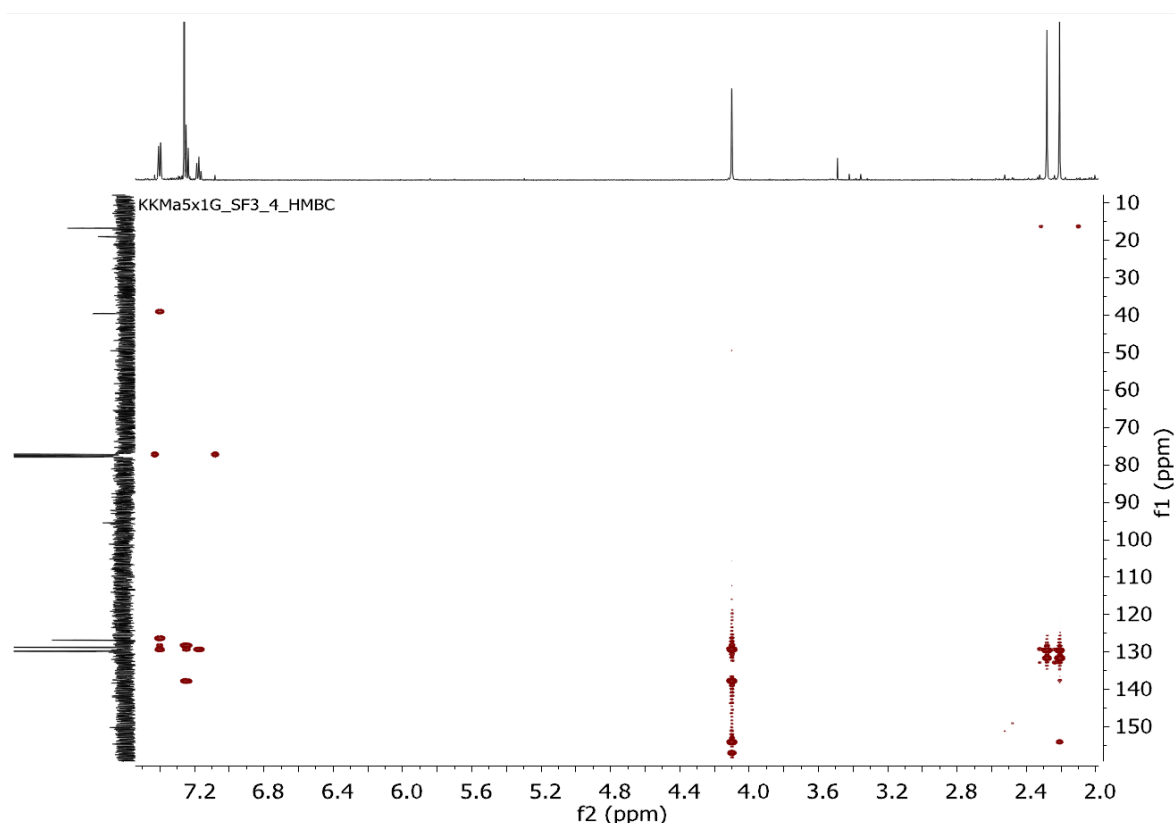


Figure S8. All possible structures calculated by the ACDLabs Structure Elucidator software showing the best candidate in position number 1.

1 (ID:9) The Best Structure	2 (ID:2)	3 (ID:3)	4 (ID:10)	5 (ID:7)
$d_N(^{13}\text{C}+^1\text{H})$: 3.041	$d_N(^{13}\text{C}+^1\text{H})$: 3.041	$d_N(^{13}\text{C}+^1\text{H})$: 3.369	$d_N(^{13}\text{C}+^1\text{H})$: 3.369	$d_N(^{13}\text{C}+^1\text{H})$: 3.595
6 (ID:14)	7 (ID:12)	8 (ID:5)	9 (ID:4)	10 (ID:11)
$d_N(^{13}\text{C}+^1\text{H})$: 3.595	$d_N(^{13}\text{C}+^1\text{H})$: 3.605	$d_N(^{13}\text{C}+^1\text{H})$: 3.605	$d_N(^{13}\text{C}+^1\text{H})$: 4.423	$d_N(^{13}\text{C}+^1\text{H})$: 4.423
11 (ID:6)	12 (ID:13)	13 (ID:8)	14 (ID:1)	
$d_N(^{13}\text{C}+^1\text{H})$: 4.606	$d_N(^{13}\text{C}+^1\text{H})$: 4.606	$d_N(^{13}\text{C}+^1\text{H})$: 5.152	$d_N(^{13}\text{C}+^1\text{H})$: 5.152	