Supplementary Materials: Biotransformation of Lactones with Methylcyclohexane Ring and Their Biological Activity

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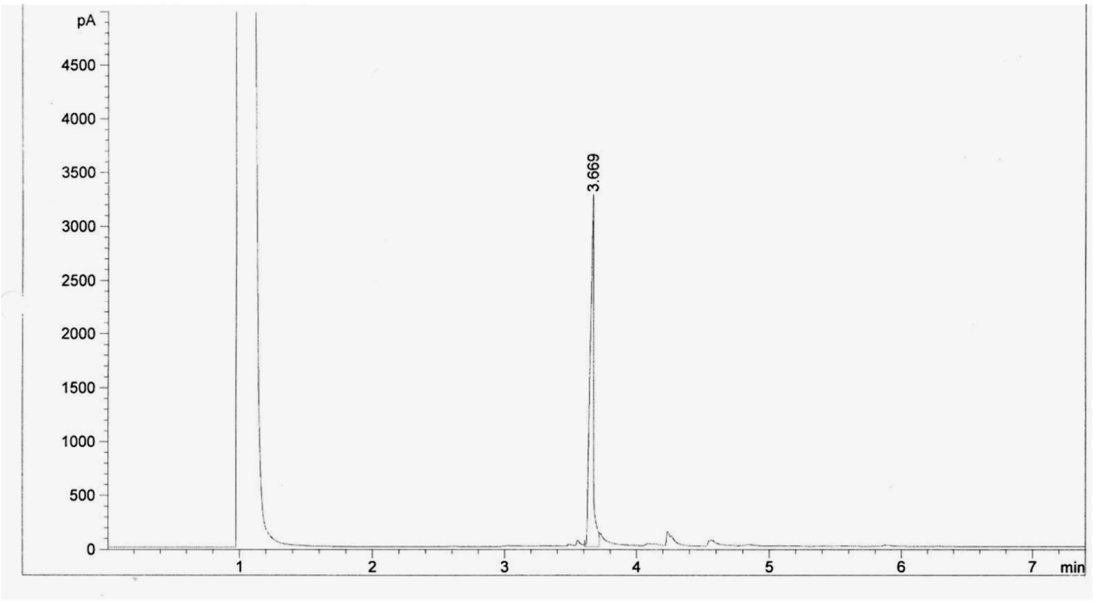


Figure S1. GC chromatogram of chlorolactone **2**.

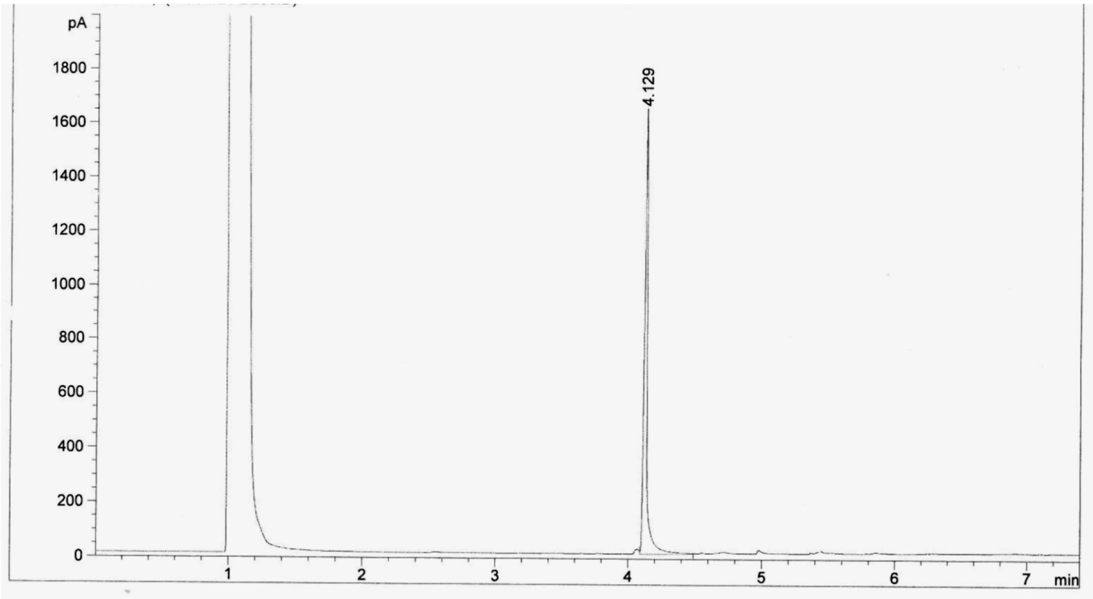


Figure S2 GC chromatogram of bromolactone **3.**

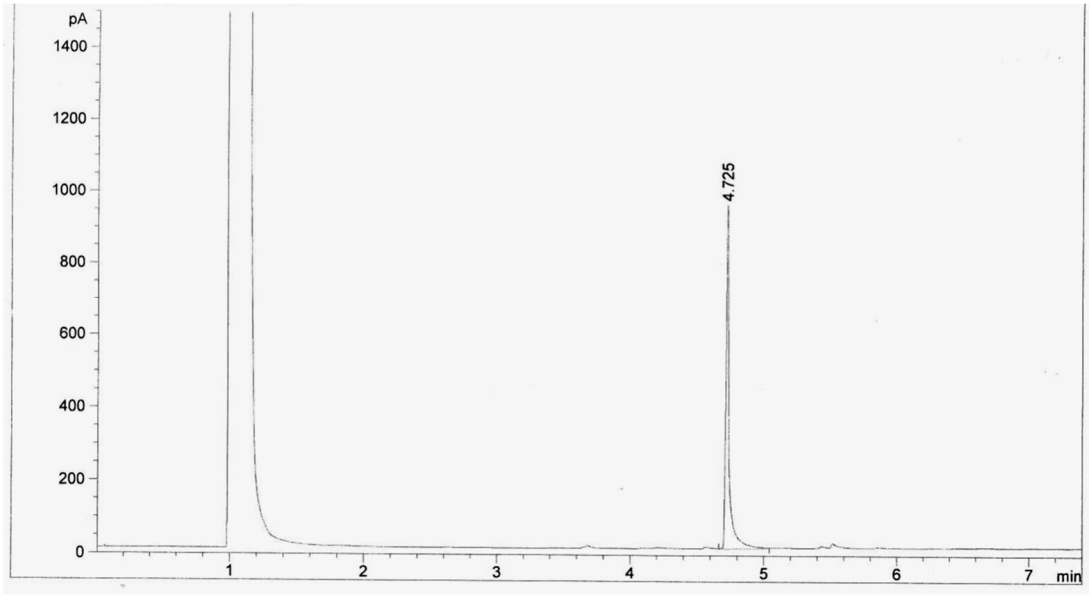


Figure S3 GC chromatogram of iodolactone **4.**

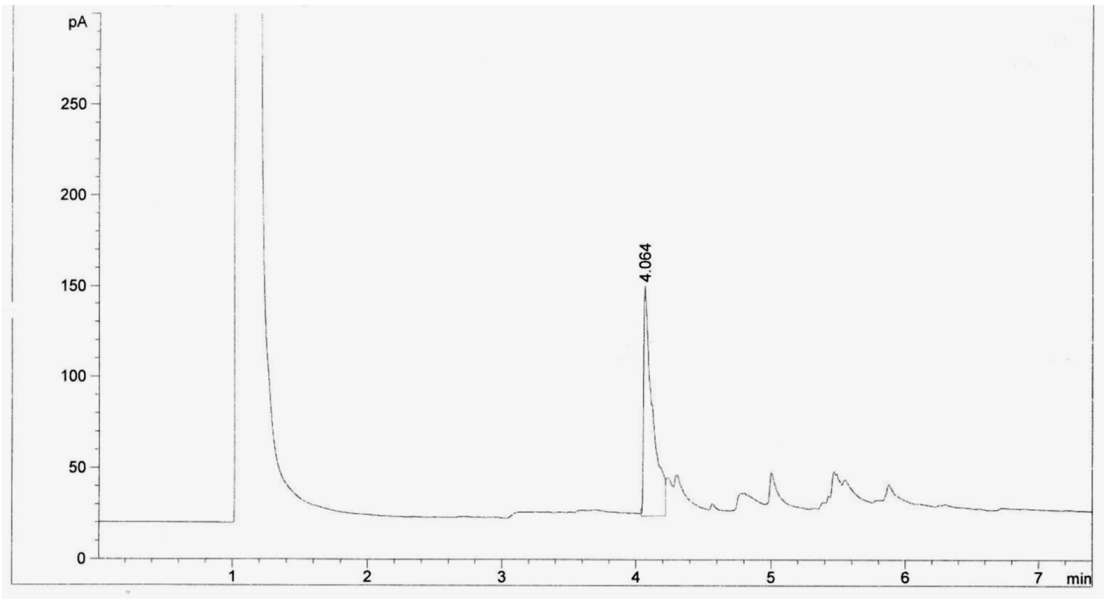
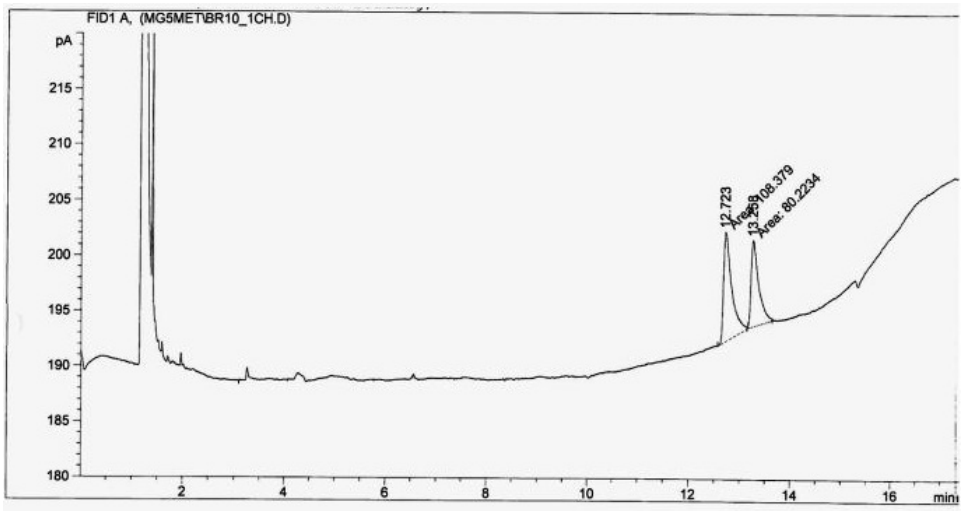


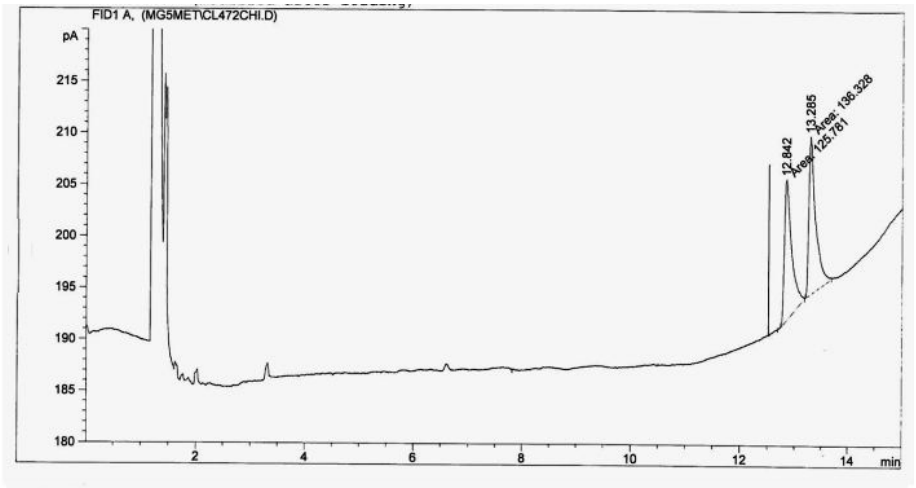
Figure S4. GC chromatogram of hydroxylactone **5.**



Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	12.723	MM	0.1821	108.37880	9.92174	57.46422
2	13.258	MM	0.1708	80.22342	7.82652	42.53578

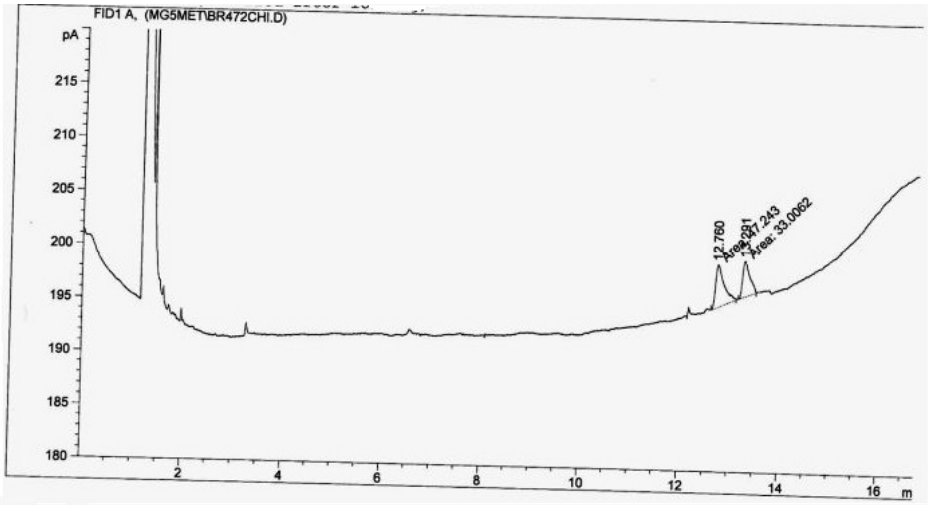
Figure S5. Chiral GC chromatogram of hydroxylactone **5** (from bromolactone by *F. culmorum* AM10).



Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	12.842	MM	0.1527	125.78101	13.72746	47.98811
2	13.285	MM	0.1481	136.32767	15.34657	52.01189

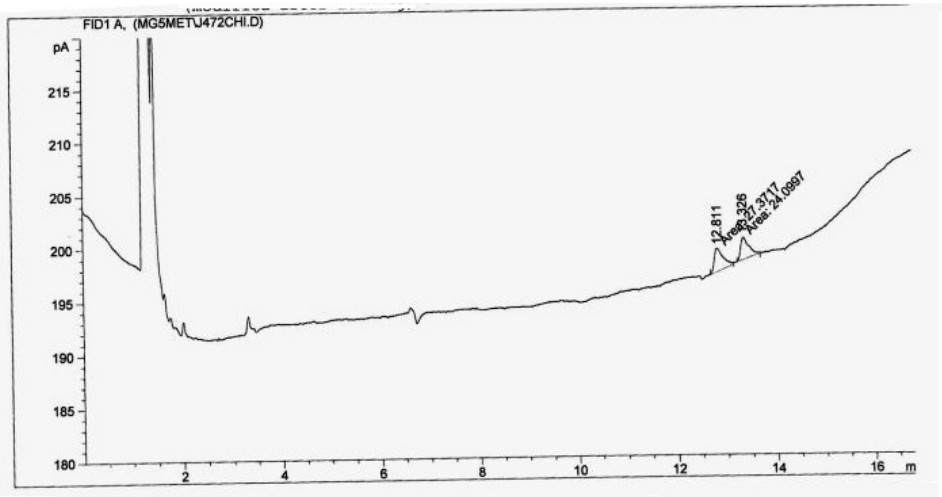
Figure S6. Chiral GC chromatogram of hydroxylactone **5** (from chlorolactone by *C. japonica* AM472).



Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	12.760	MM	0.1935	47.24298	4.06813	58.87036
2	13.291	MM	0.1624	33.00620	3.38704	41.12964

Figure S7. Chiral GC chromatogram of hydroxylactone **5** (from bromolactone by *C. japonica* AM472).



Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	12.811	MM	0.2061	27.37172	2.21311	53.17845
2	13.326	MM	0.1892	24.09973	2.12280	46.82155

Figure S8. Chiral GC chromatogram of hydroxylactone **5** (from iodolactone by *C. japonica* AM472).

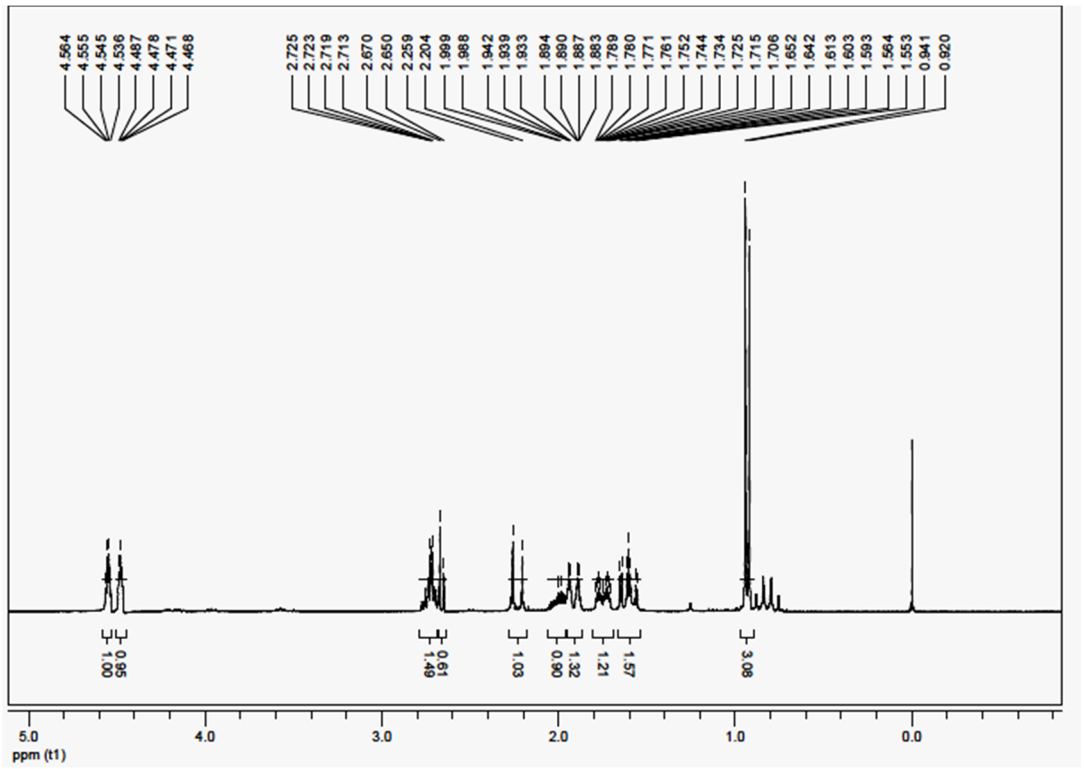


Figure S9. ^{1}H NMR (600 MHz, $CDCl_3$) spectrum of chlorolactone **2.**

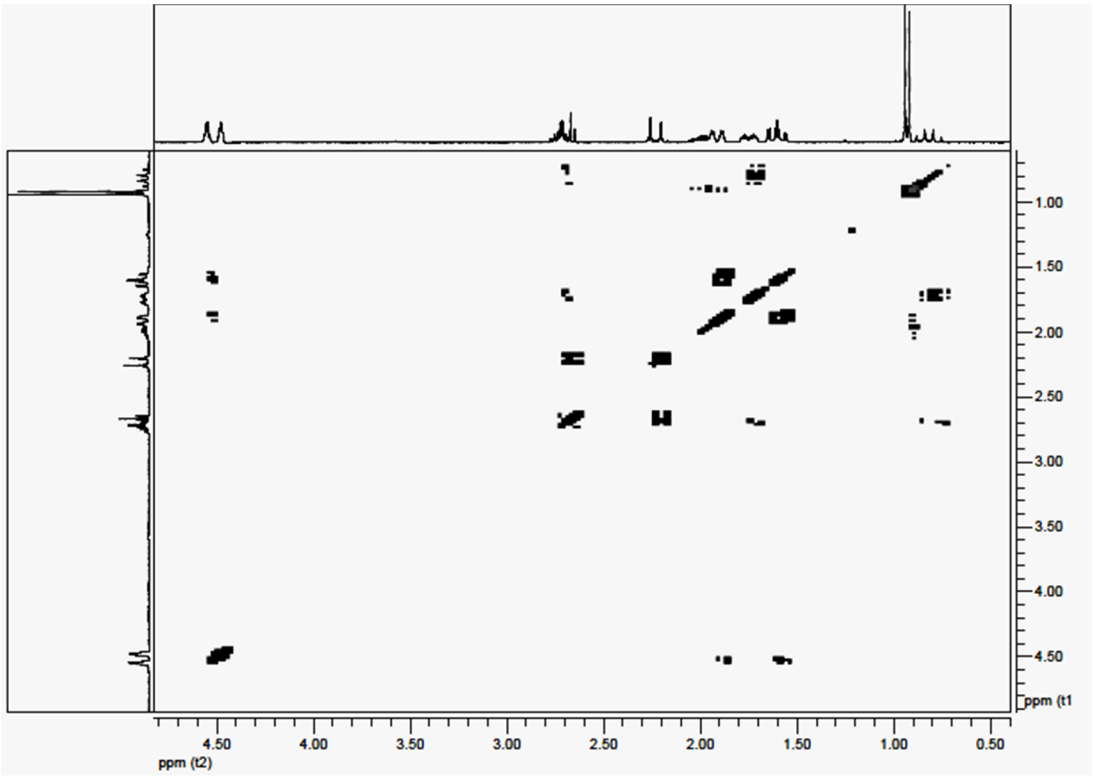


Figure S10. COSY (151 MHz, $CDCl_3$) spectrum of chlorolactone **2**.

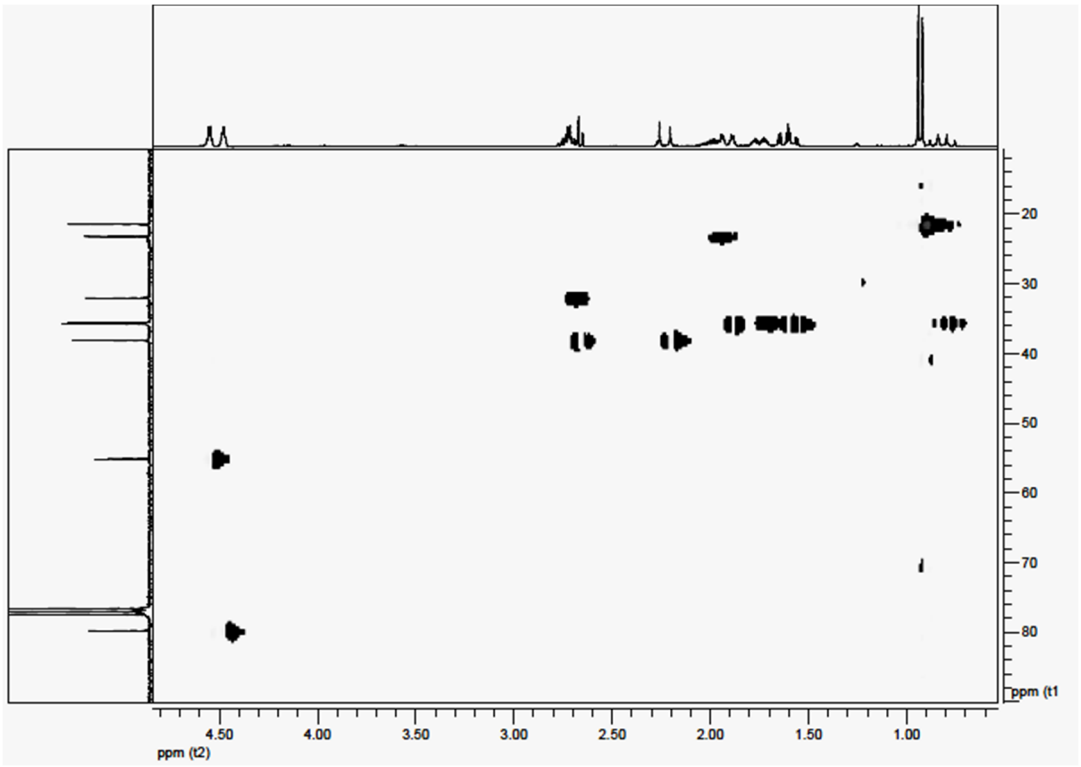


Figure S11. HMQC (151 MHz, $CDCl_3$) spectrum of chlorolactone **2**.

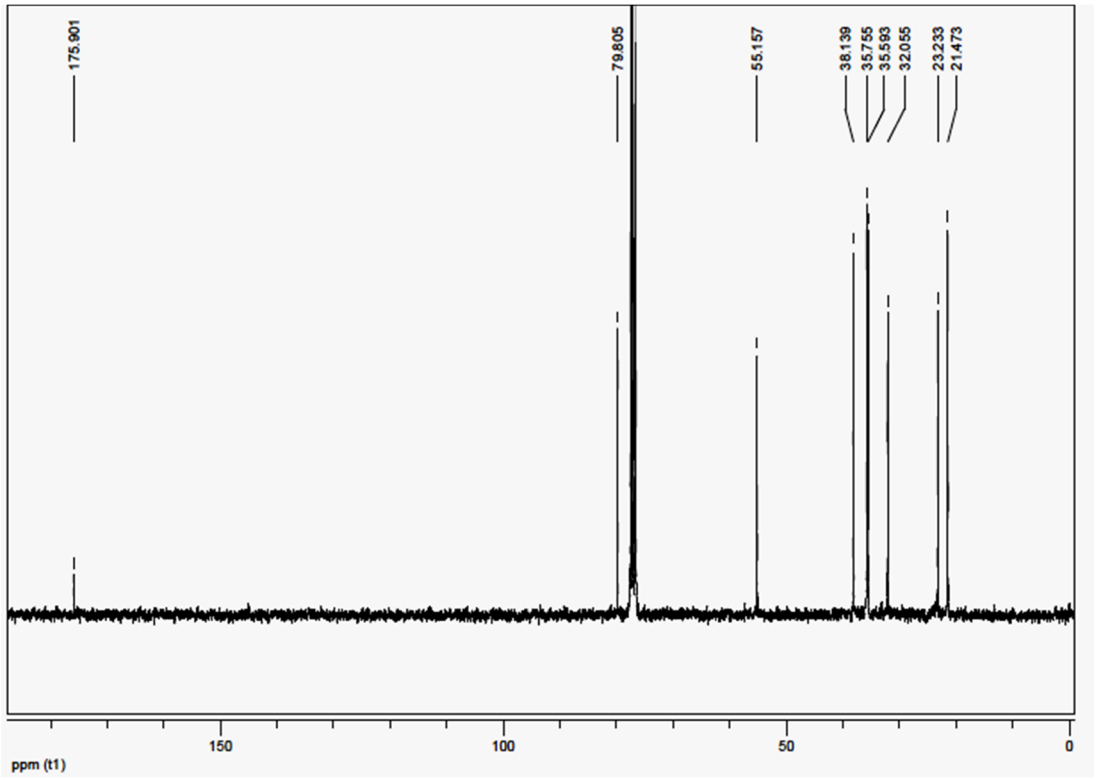


Figure S12. ^{13}C NMR (151 MHz, $CDCl_3$) spectrum of chlorolactone **2**.

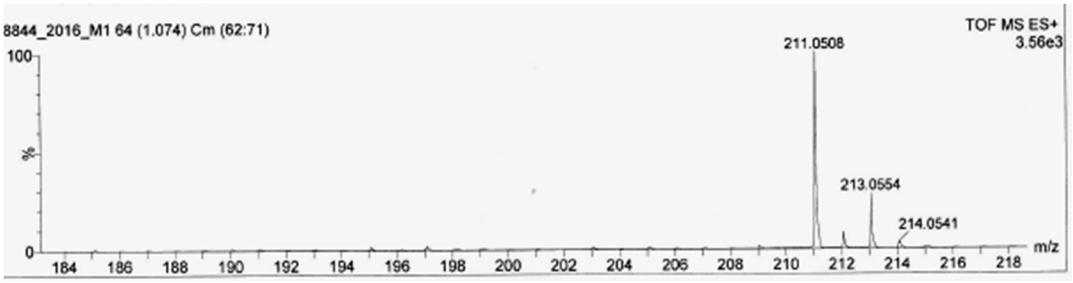


Figure S13. HRMS spectrum of chlorolactone **2**.

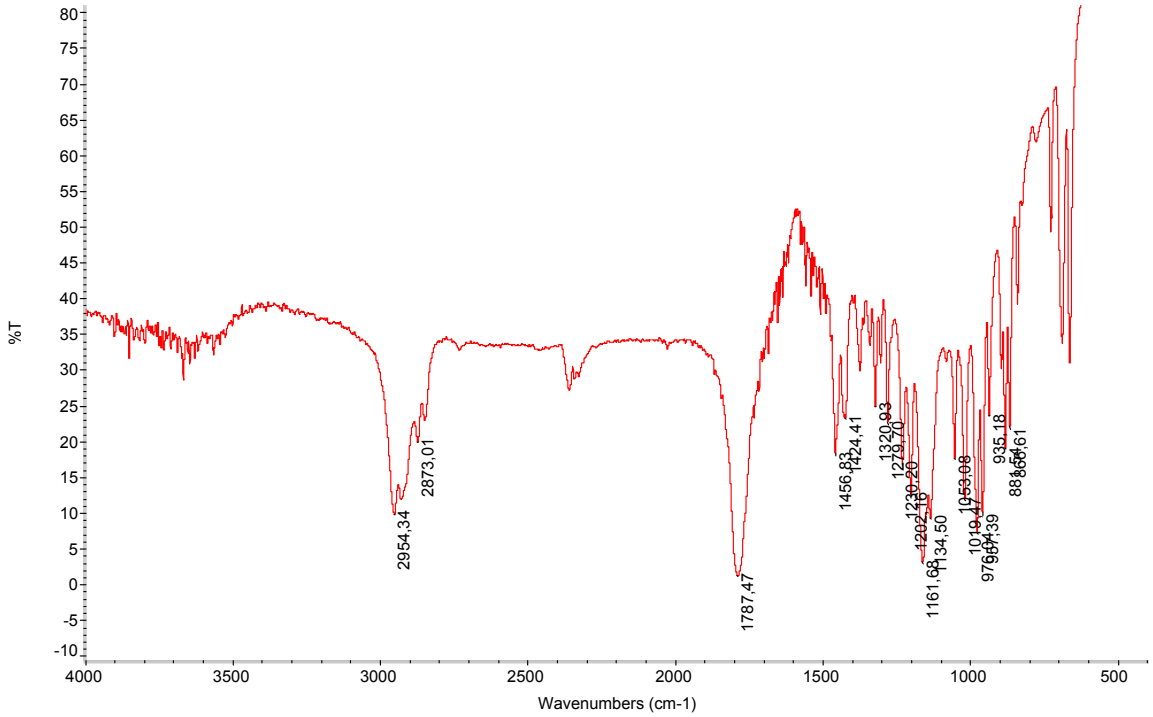


Figure S14. IR spectrum of chlorolactone **2.**

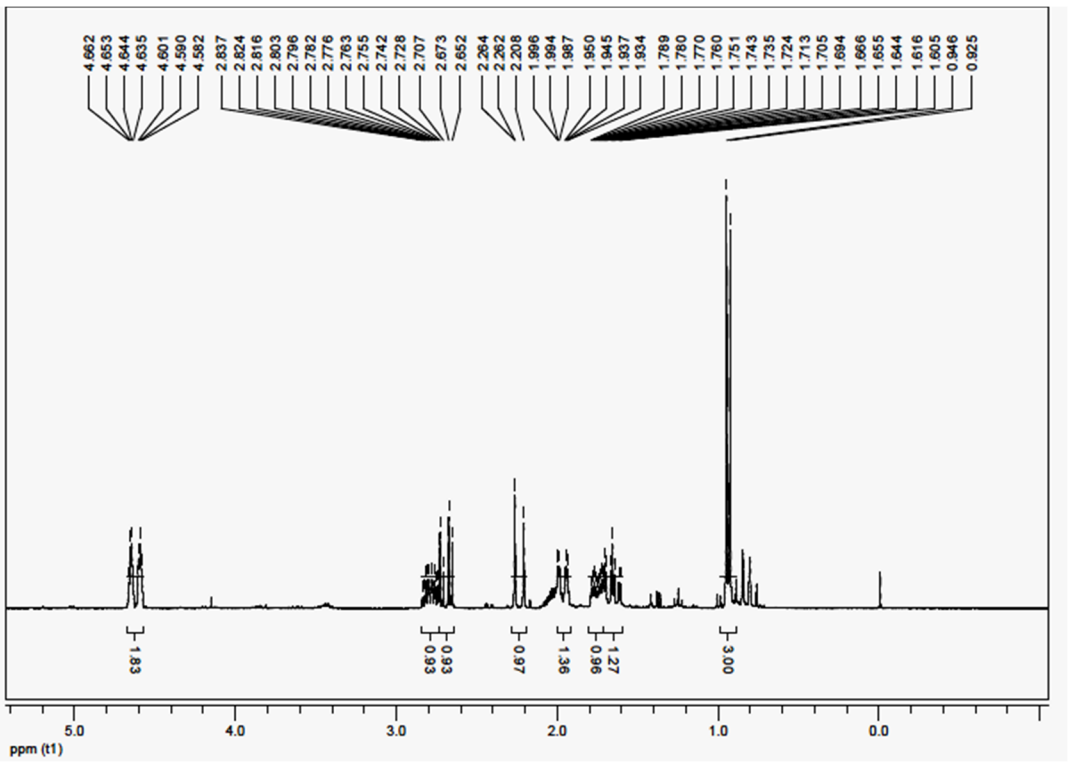


Figure S15. ^{1}H NMR (600 MHz, $CDCl_3$) spectrum of bromolactone **3.**

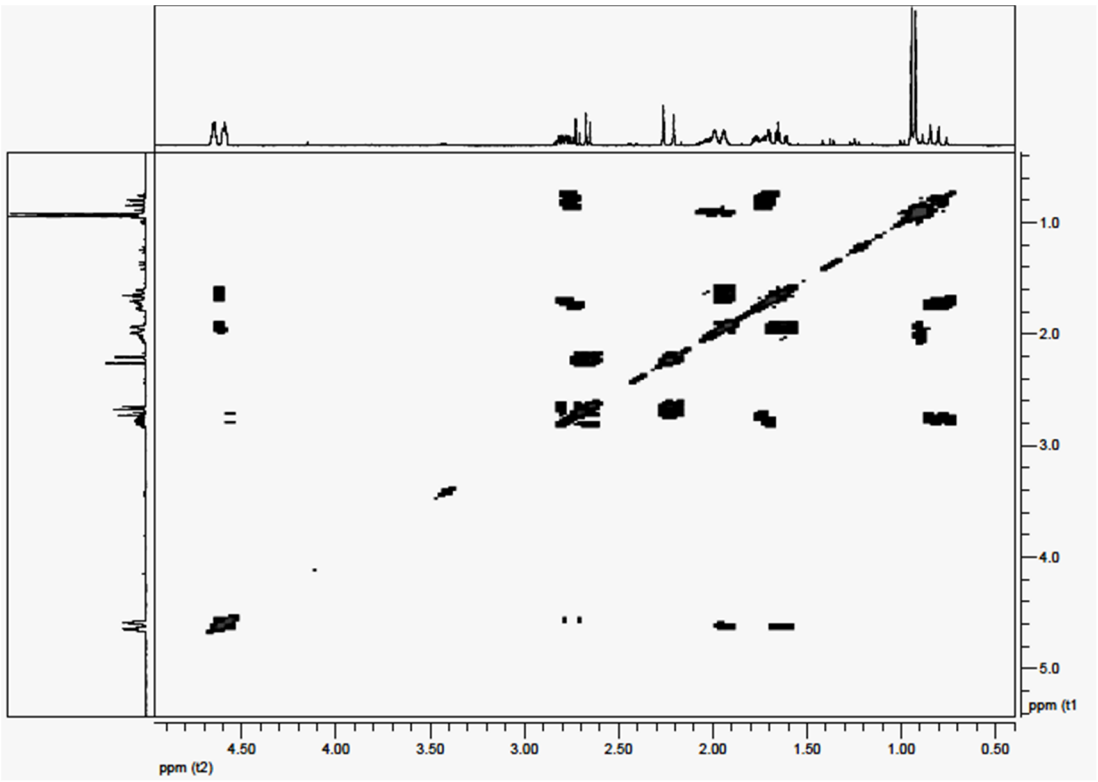


Figure S16. COSY (151 MHz, $CDCl_3$) spectrum of bromolactone **3**.

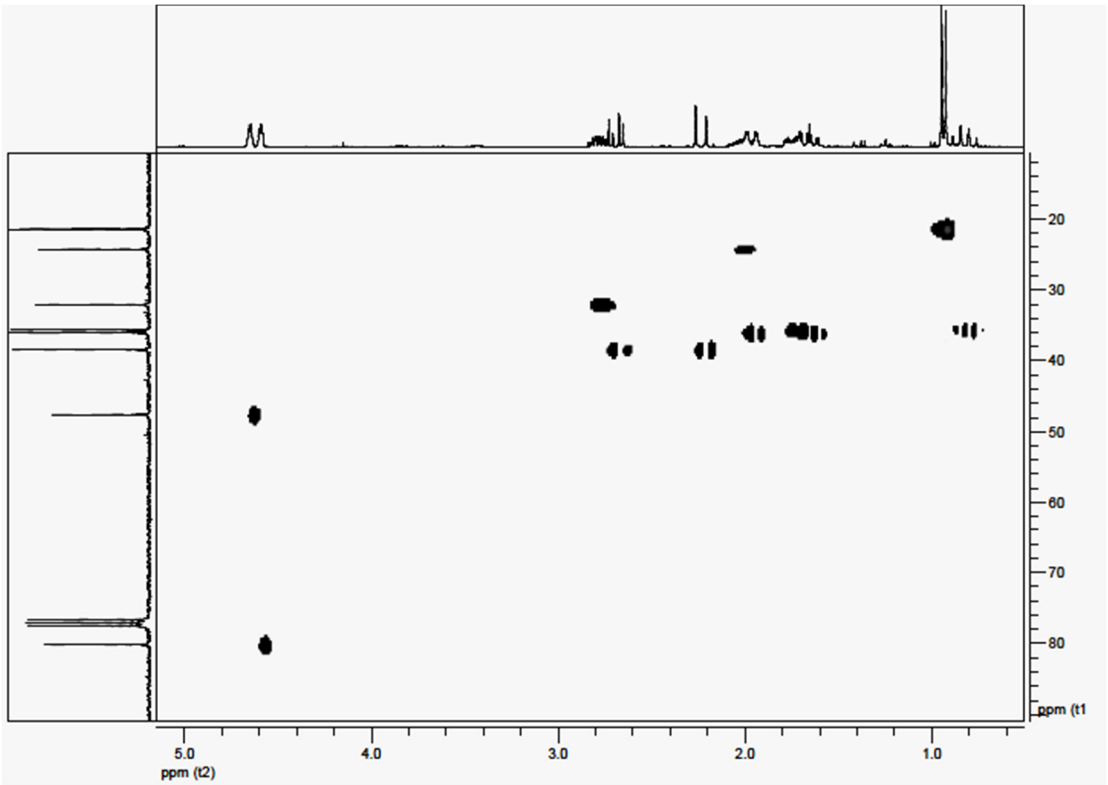


Figure S17. COSY (151 MHz, $CDCl_3$) spectrum of bromolactone **3.**

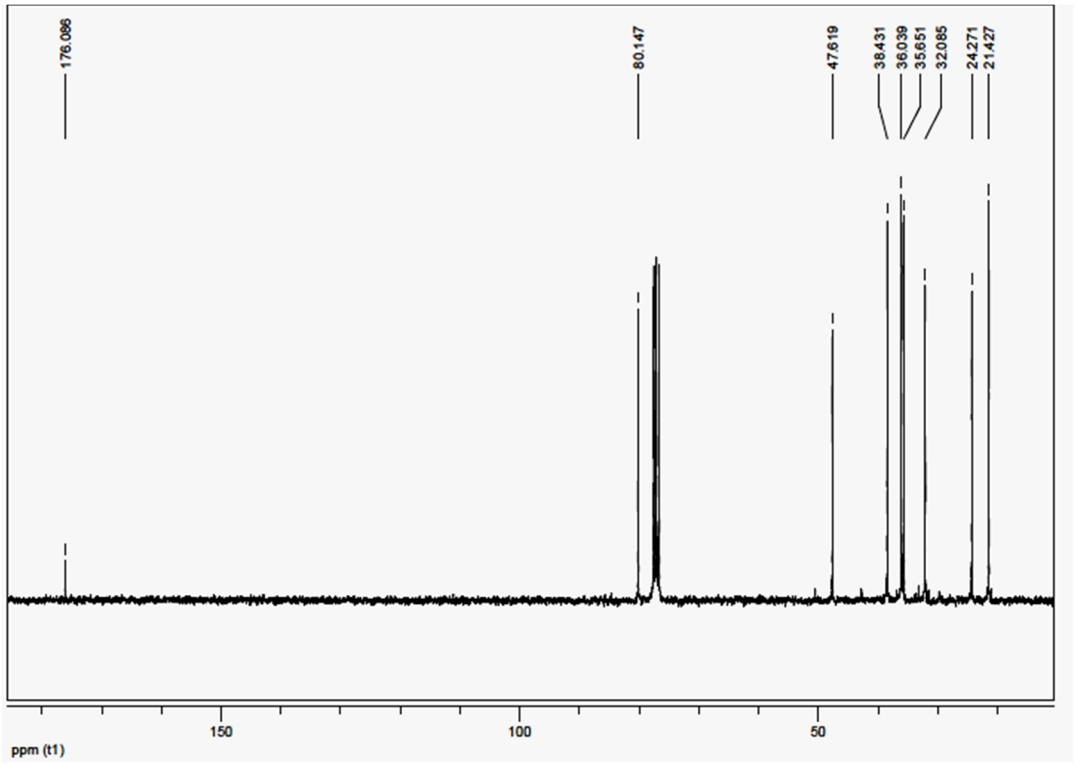


Figure S18. ^{13}C NMR (151 MHz, $CDCl_3$) spectrum of bromolactone **3.**

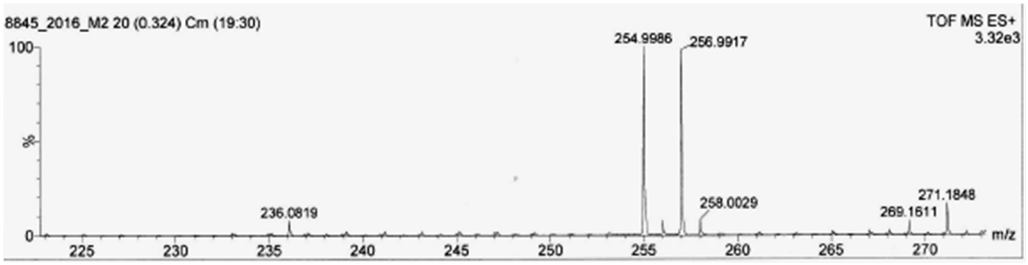


Figure S19. HRMS spectrum of bromolactone **3.**

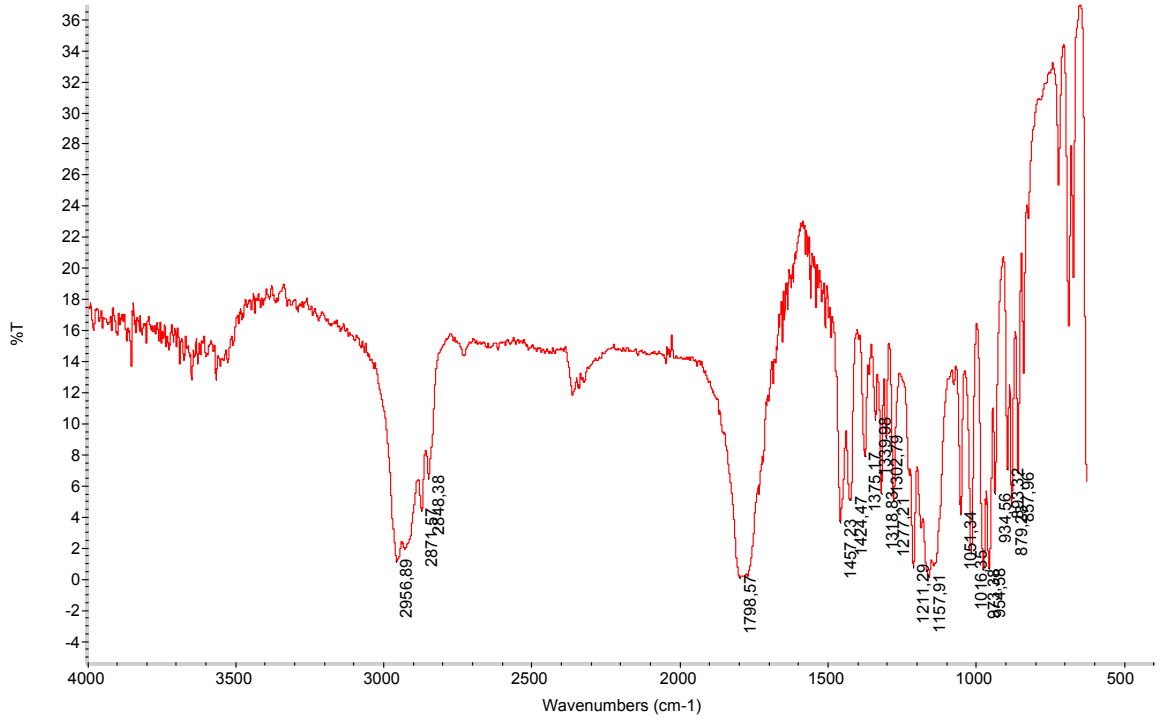


Figure S20. IR spectrum of bromolactone **3.**

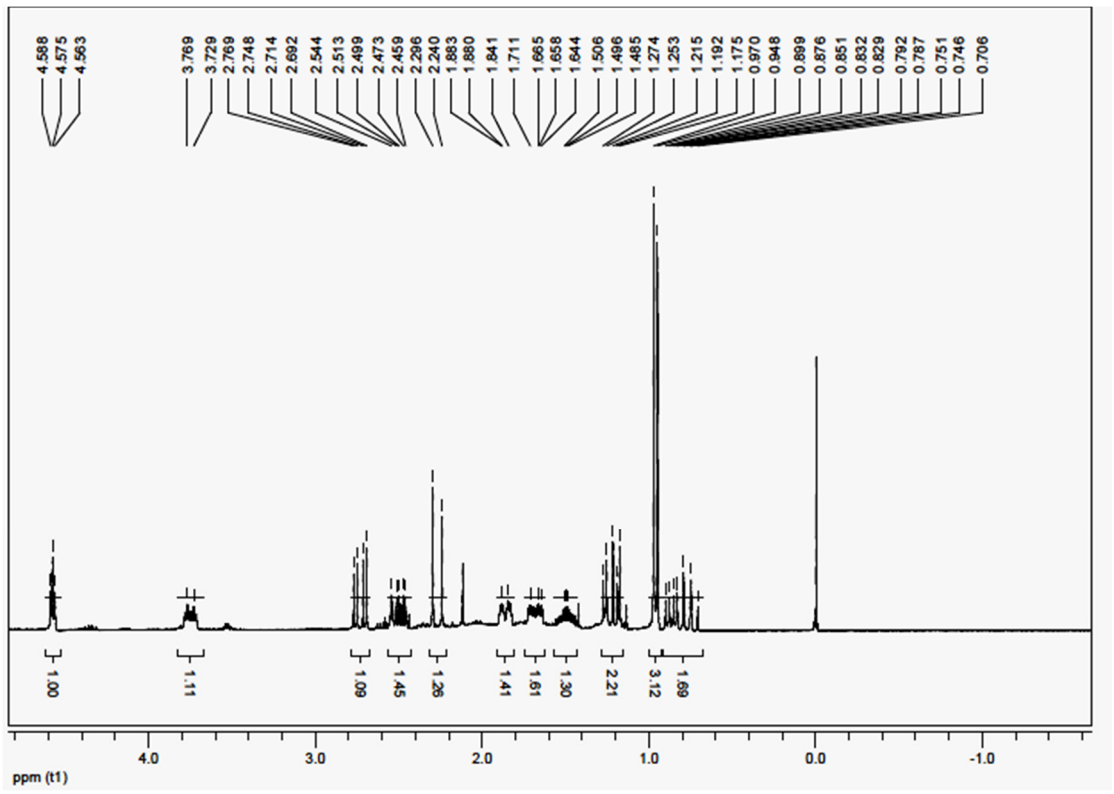


Figure S21. ^{1}H NMR (600 MHz, $CDCl_3$) spectrum of hydroxylactone **5.**

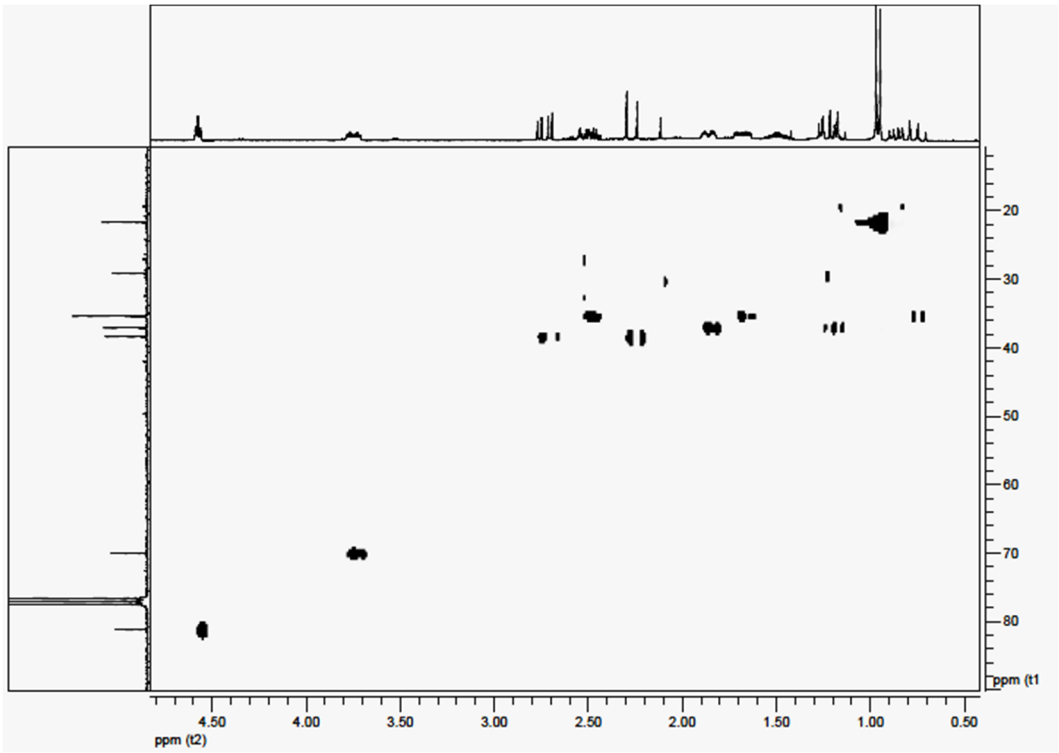


Figure S22. HMQC (151 MHz, $CDCl_3$) spectrum of hydroxylactone **5**.

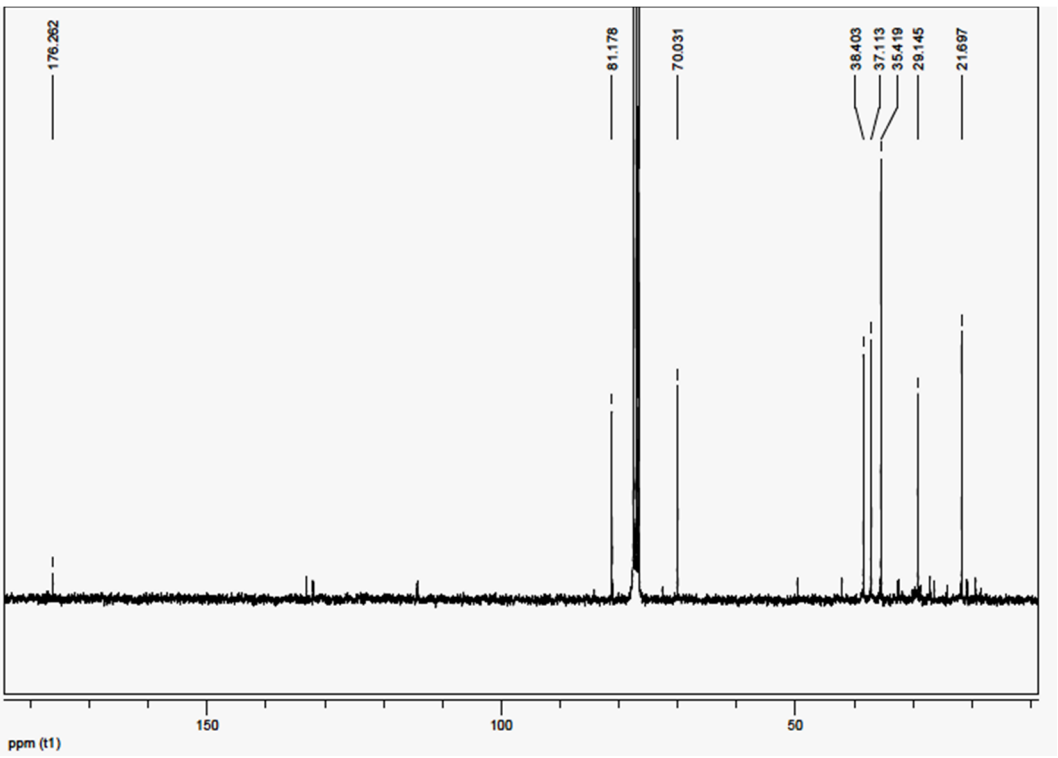


Figure S23. ^{13}C NMR (151 MHz, $CDCl_3$) spectrum of hydroxylactone **5**.

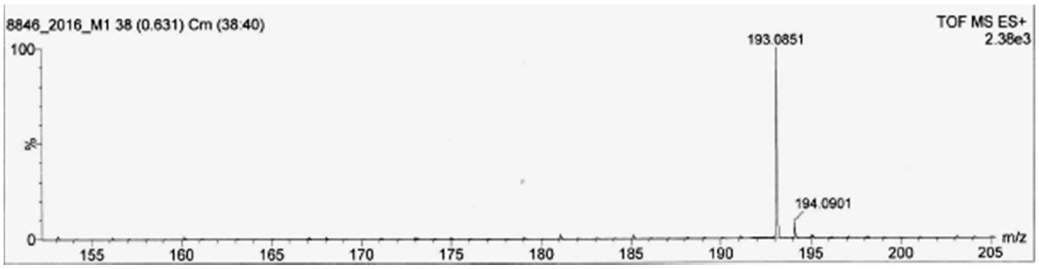


Figure S24. HRMS spectrum of hydroxylactone **5**.

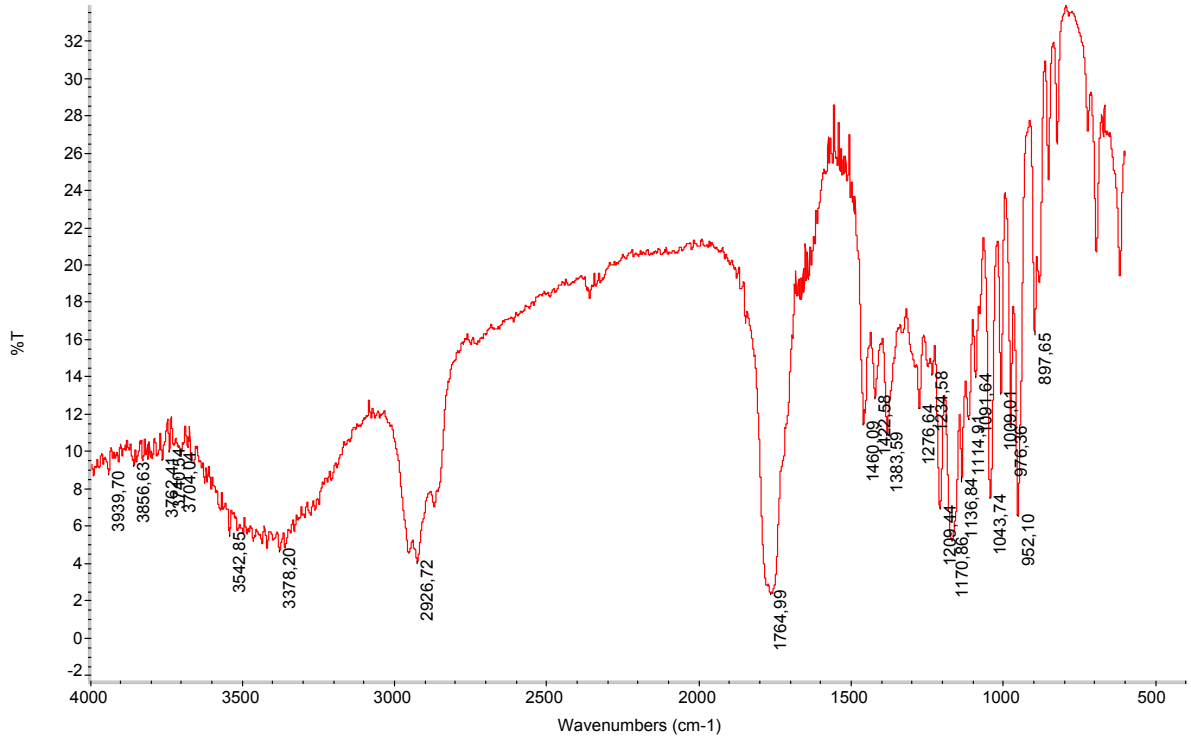


Figure S25. IR spectrum of hydroxylactone **5**.