

Microbial Synthesis and Evaluation of Fungistatic Activity of 3-Butyl-3-hydroxyphthalide, the Mammalian Metabolite of 3-*n*-Butylidenephthalide

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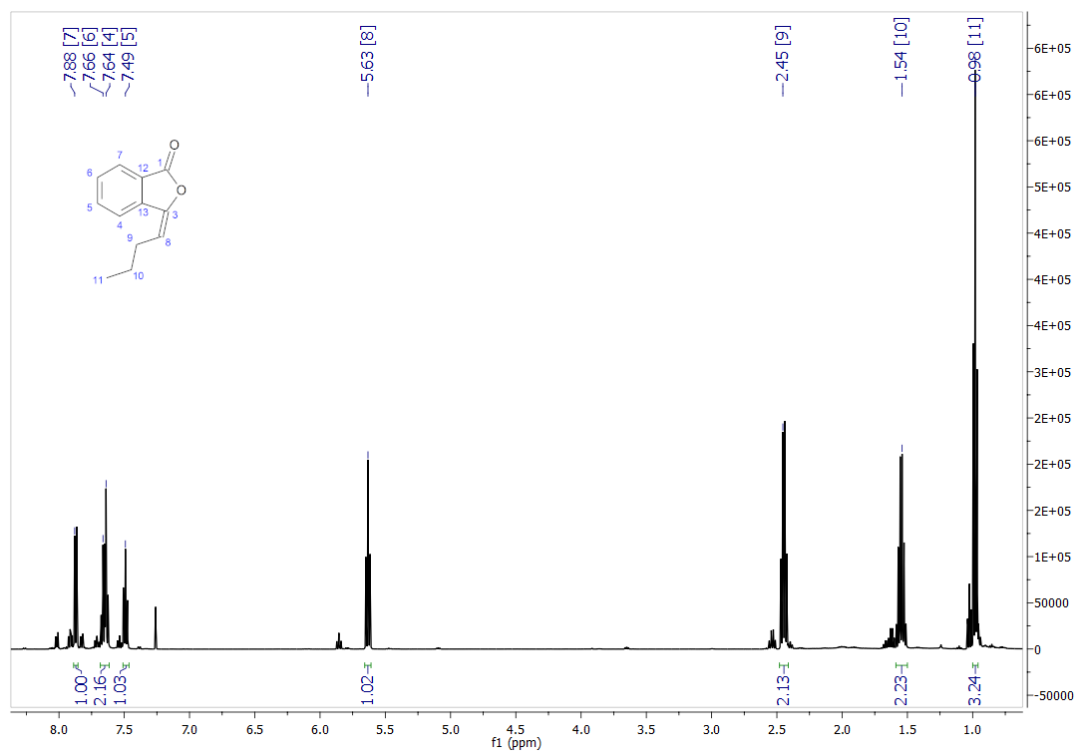


Figure S1. ¹H NMR spectrum of 3-*n*-butylidenephthalide (1).

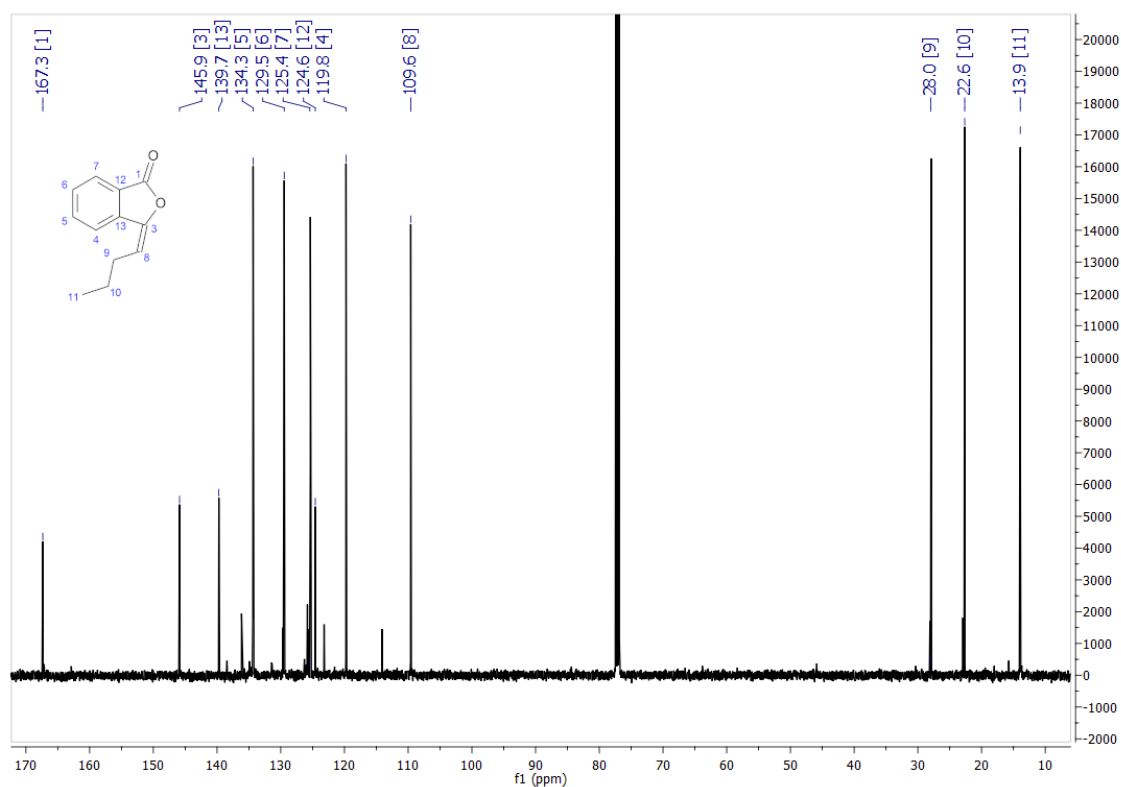


Figure S2. ¹³C NMR spectrum of 3-*n*-butylidenephthalide (1).

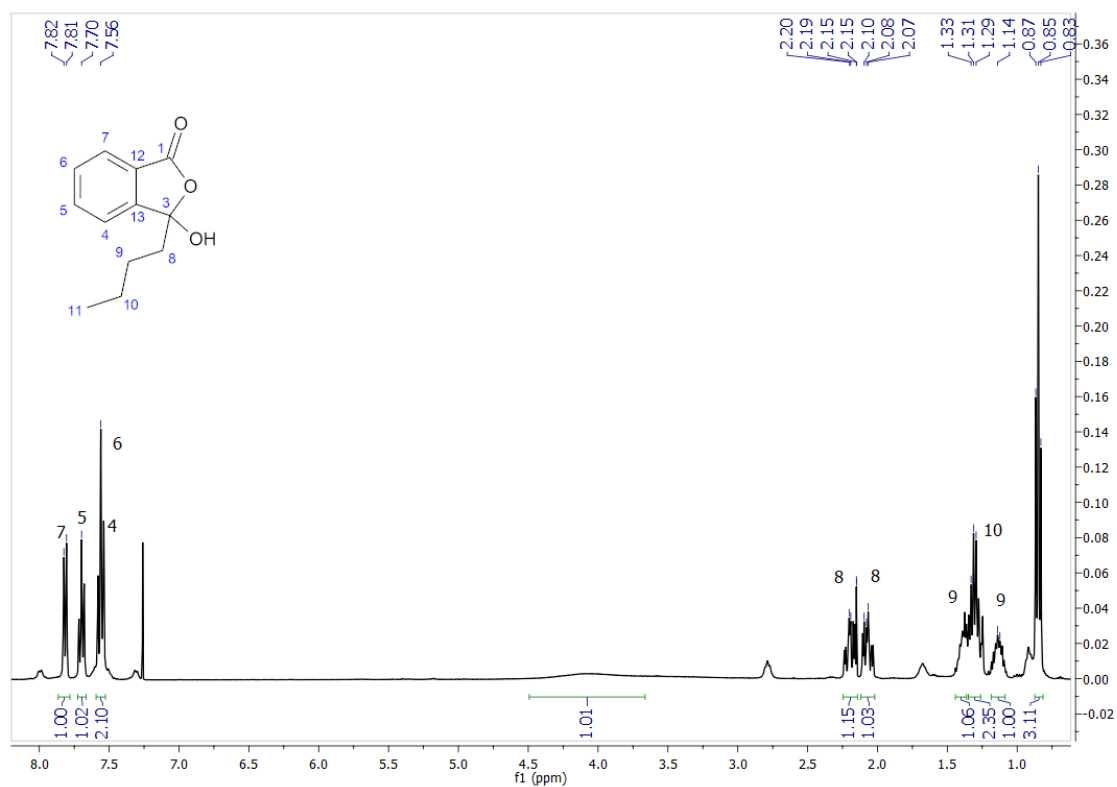


Figure S3. ¹H NMR spectrum of 3-butyl-3-hydroxyphthalide (2).

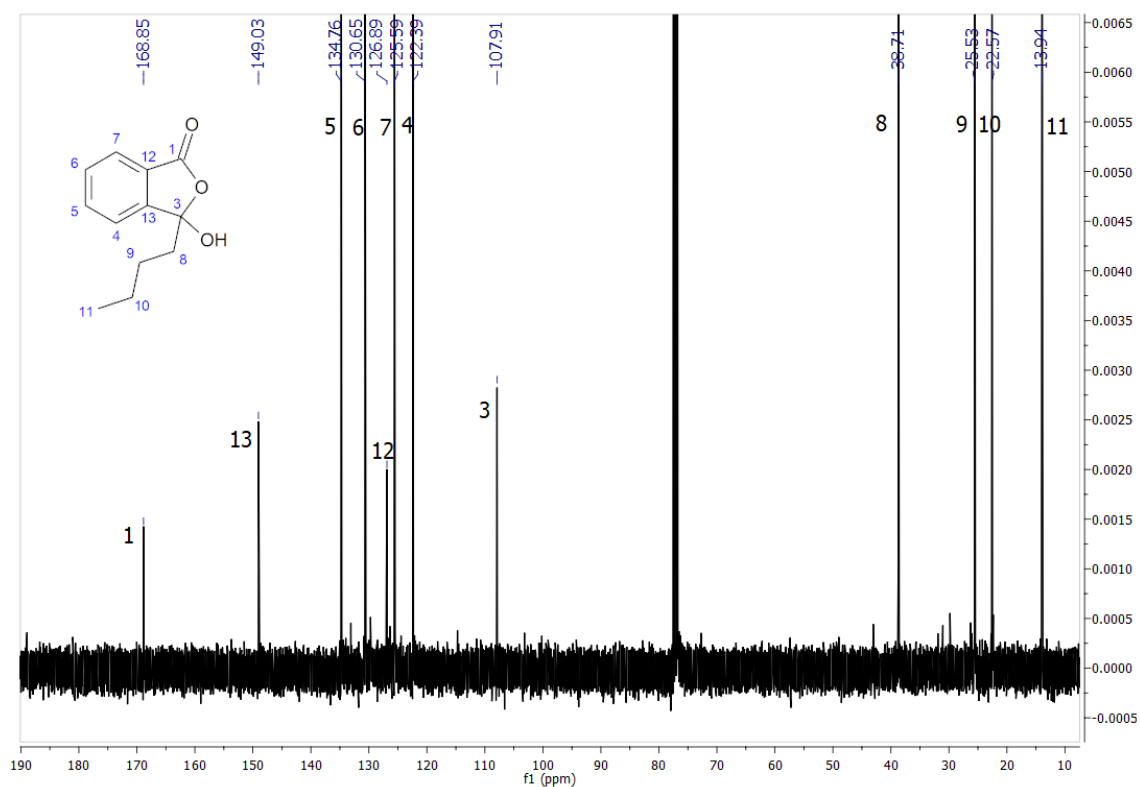


Figure S4. ^{13}C NMR spectrum of 3-butyl-3-hydroxyphthalide (2).

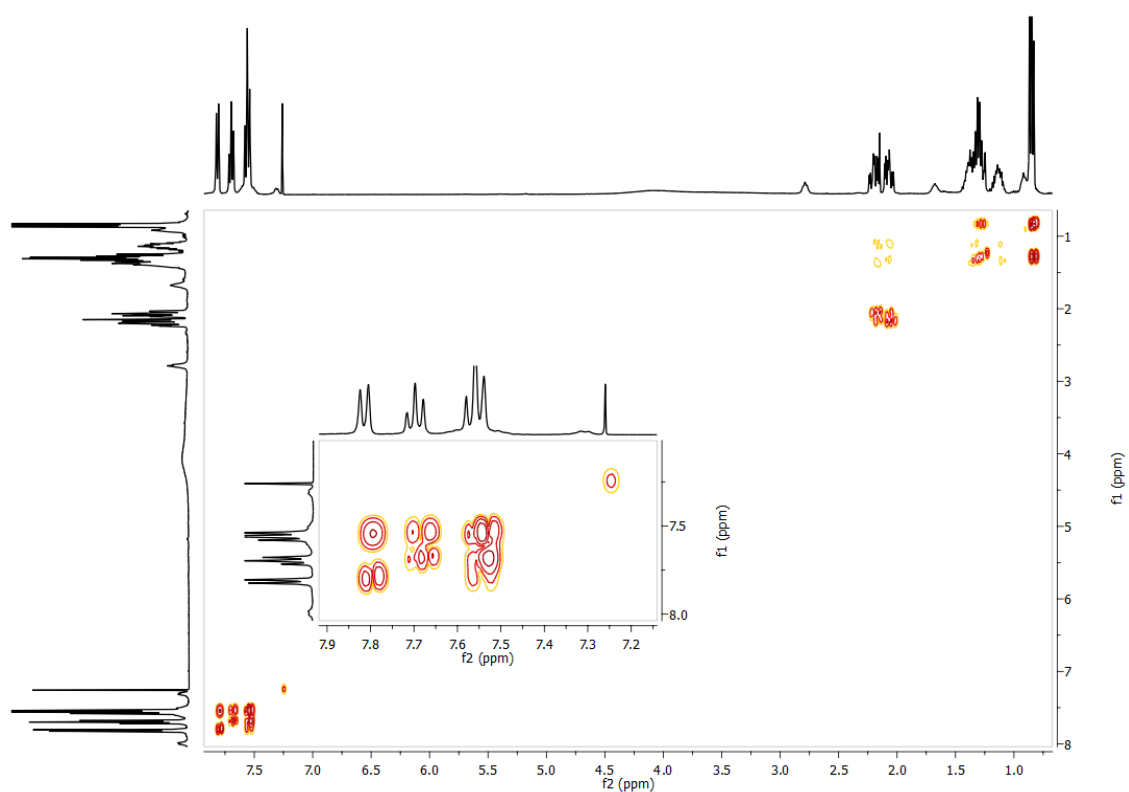


Figure S5. COSY spectrum of 3-butyl-3-hydroxyphthalide (2).

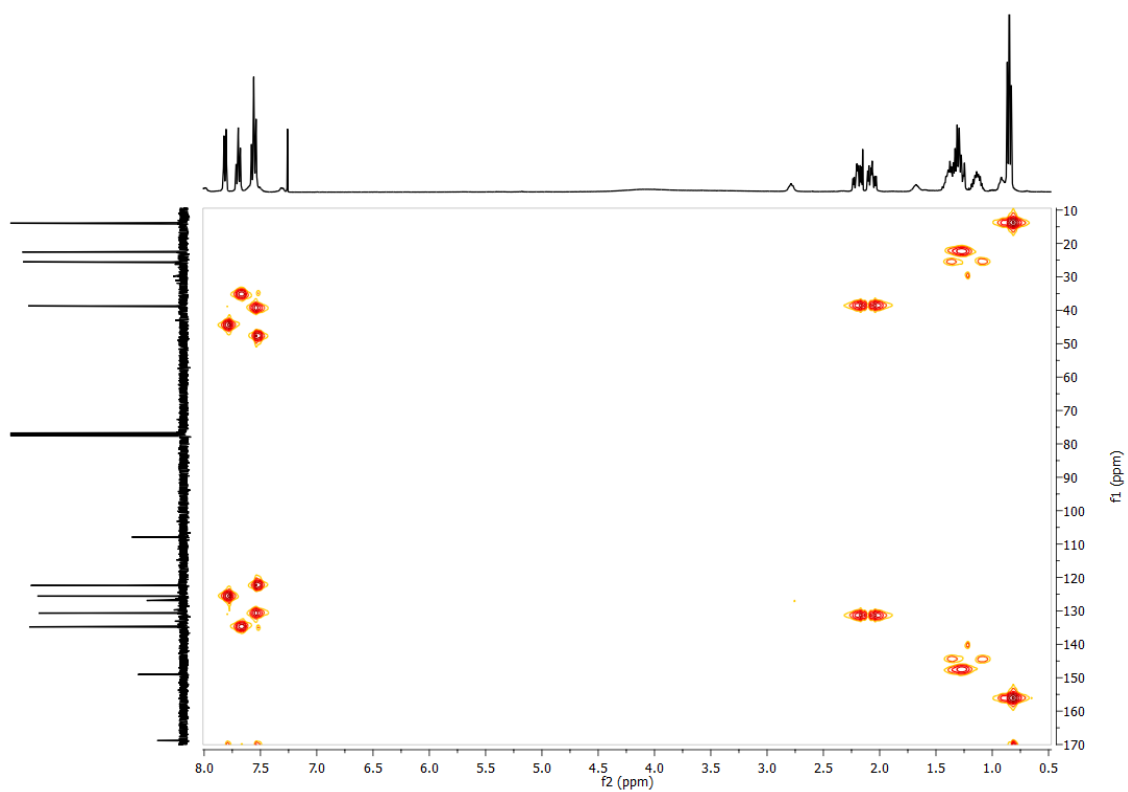


Figure S6. HSQC spectrum of 3-butyl-3-hydroxyphthalide (2).

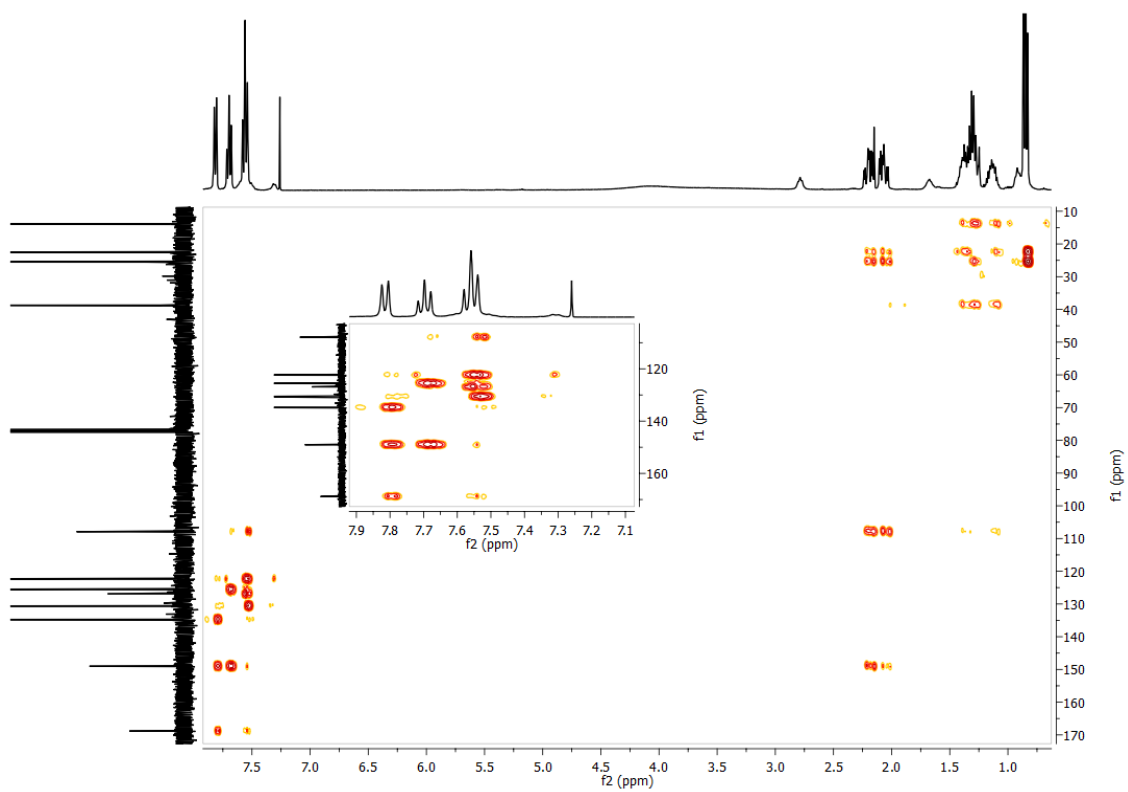


Figure S7. HMBC spectrum of 3-butyl-3-hydroxyphthalide (2).

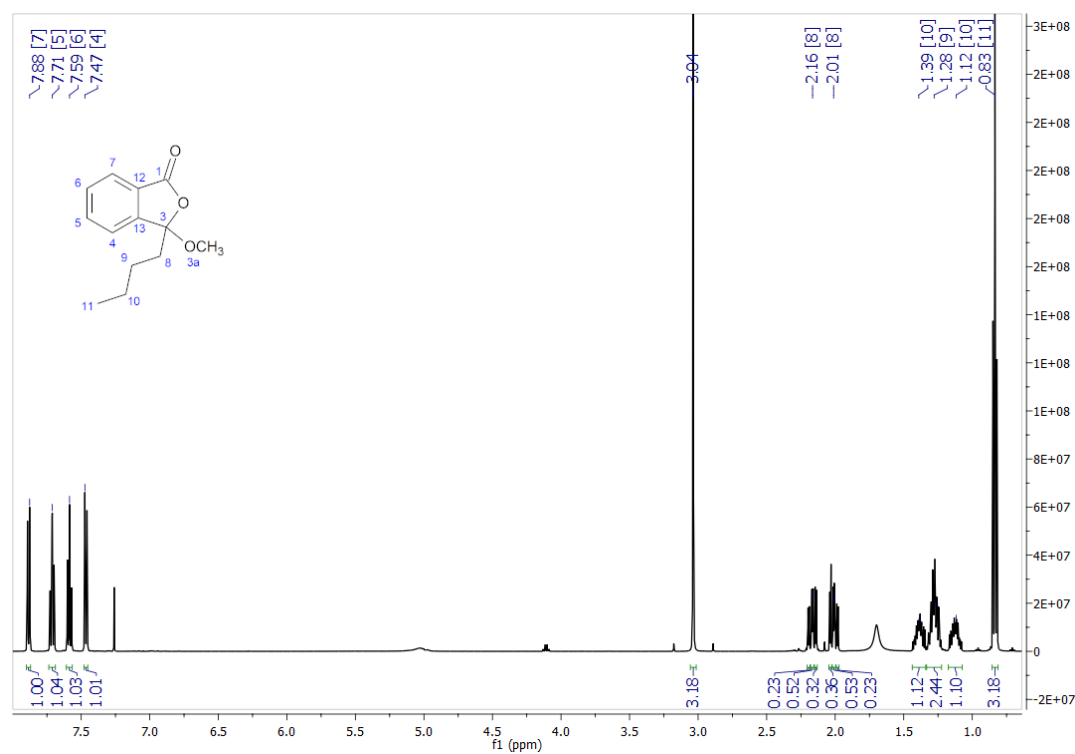


Figure S8. ¹H NMR spectrum of 3-butyl-3-methoxyphthalide (3).

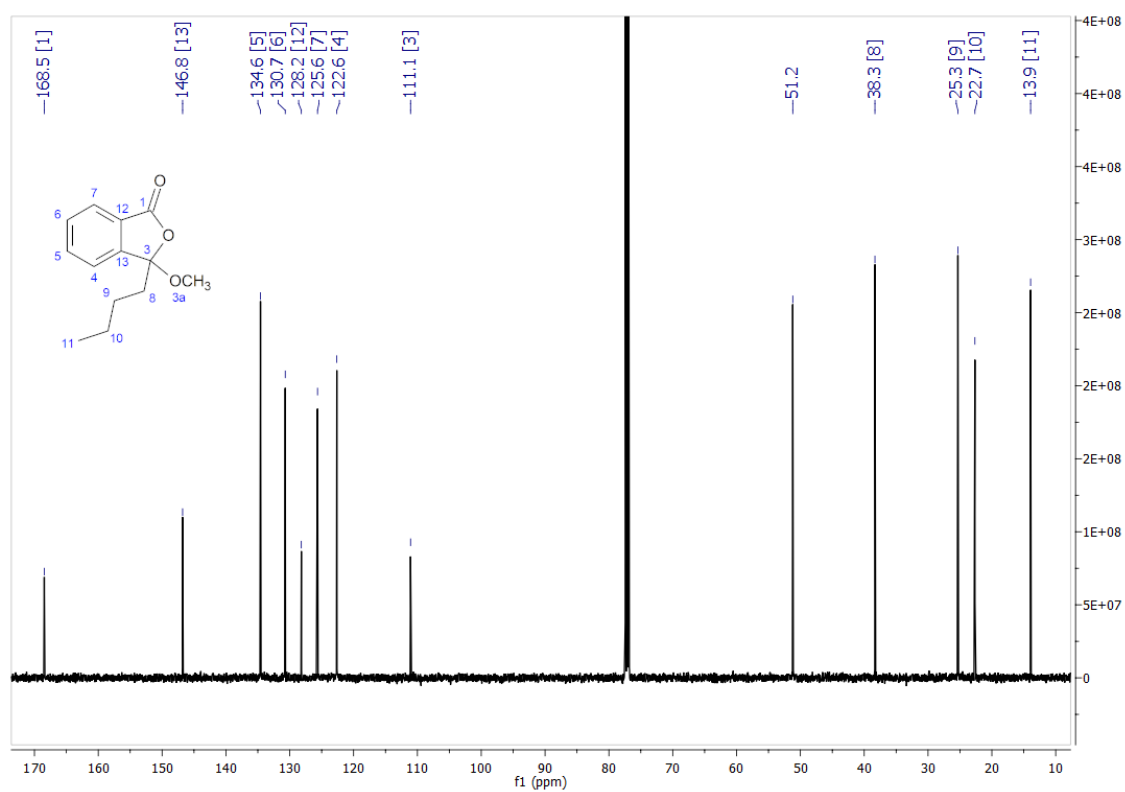


Figure S9. ¹³C NMR spectrum of 3-butyl-3-methoxyphthalide (3).

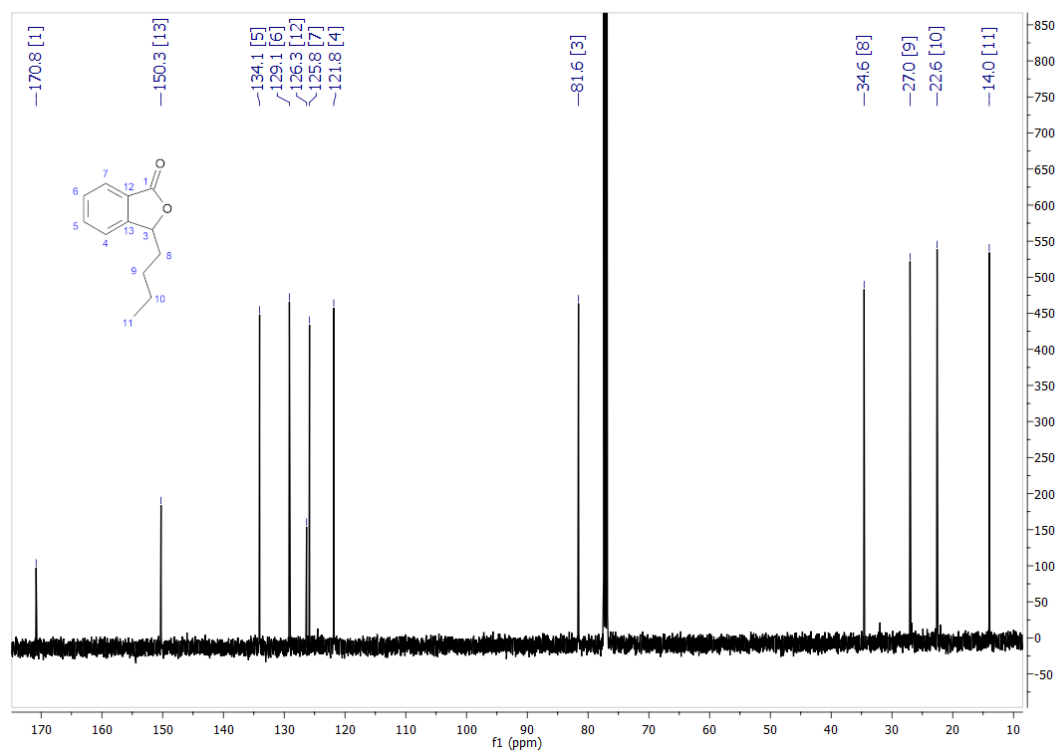
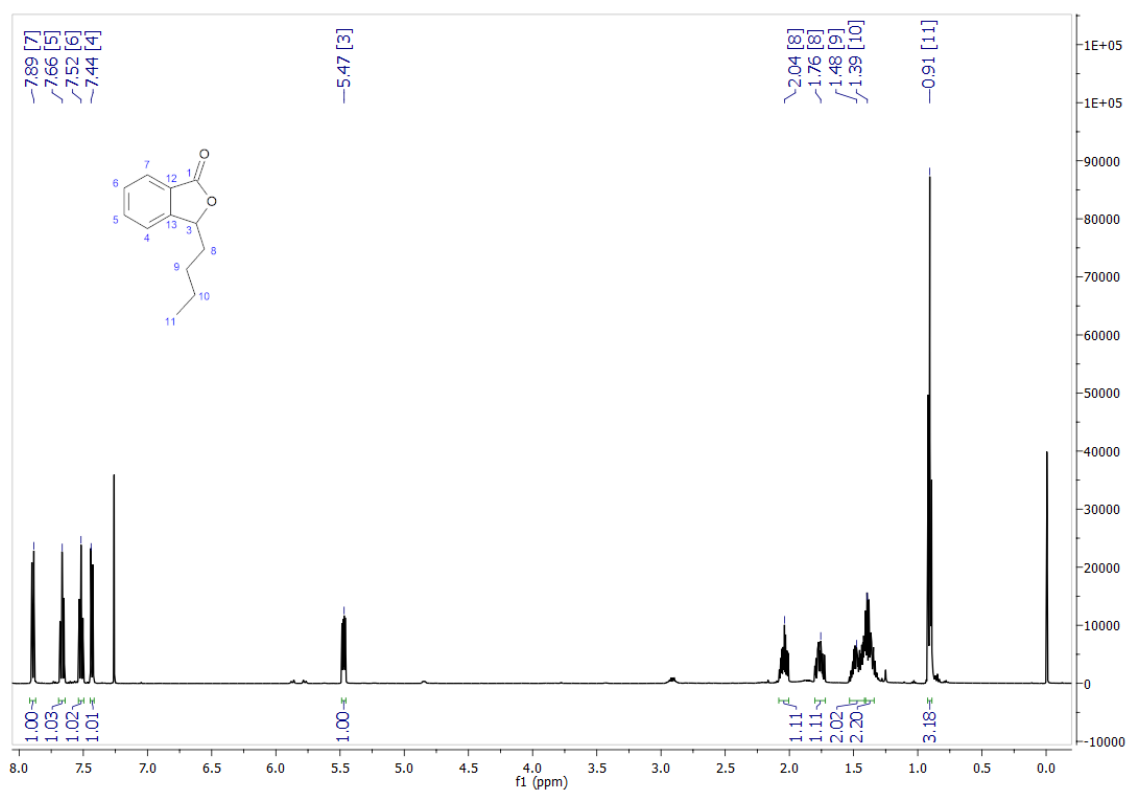


Figure S11. ^{13}C NMR spectrum of 3-*n*-butylphthalide (4).

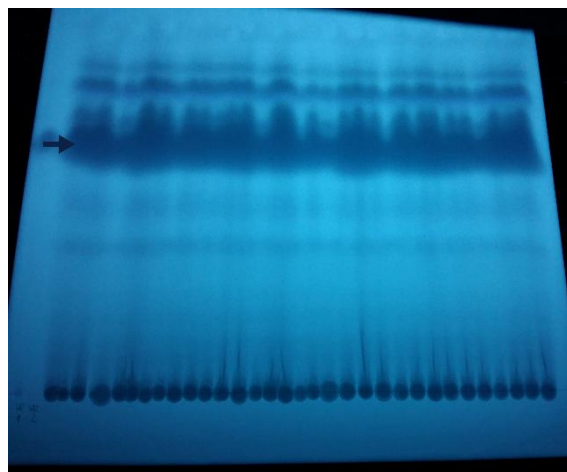


Figure S12. Purification of the product formed during biotransformation on reversed-phase thin layer chromatography plate. The product is indicated by an arrow.

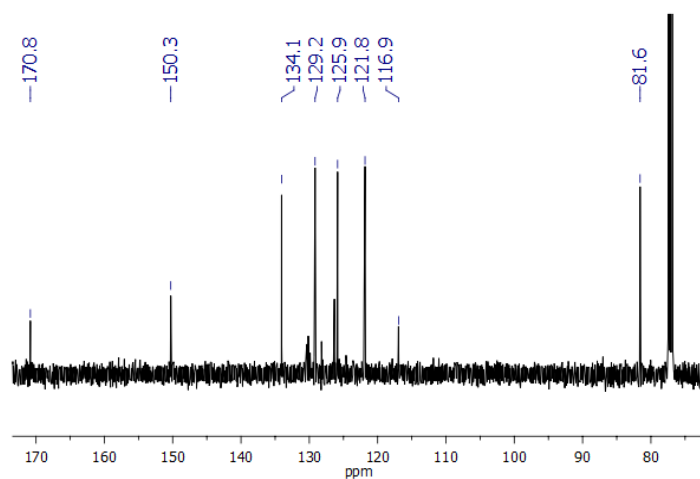


Figure S13. Fragment of the ^{13}C NMR spectrum of the *Chaetomium indicum* AM 158 biotransformation mixture.

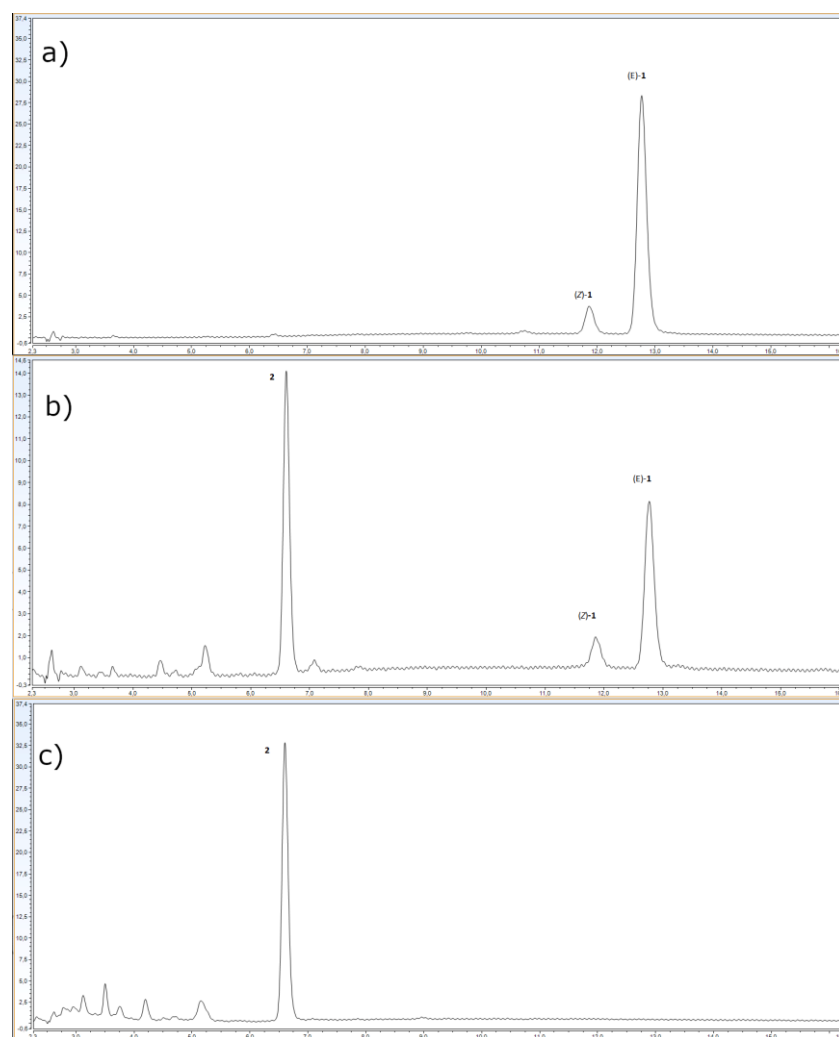


Figure S14. Chromatograms of 3-*n*-butylidenephthalide (1) – (*Z*) and (*E*) isomers (a) and the biotransformation mixtures of *Aspergillus candidus* AM 386 on days 2 (b) and 14 of the process (c).

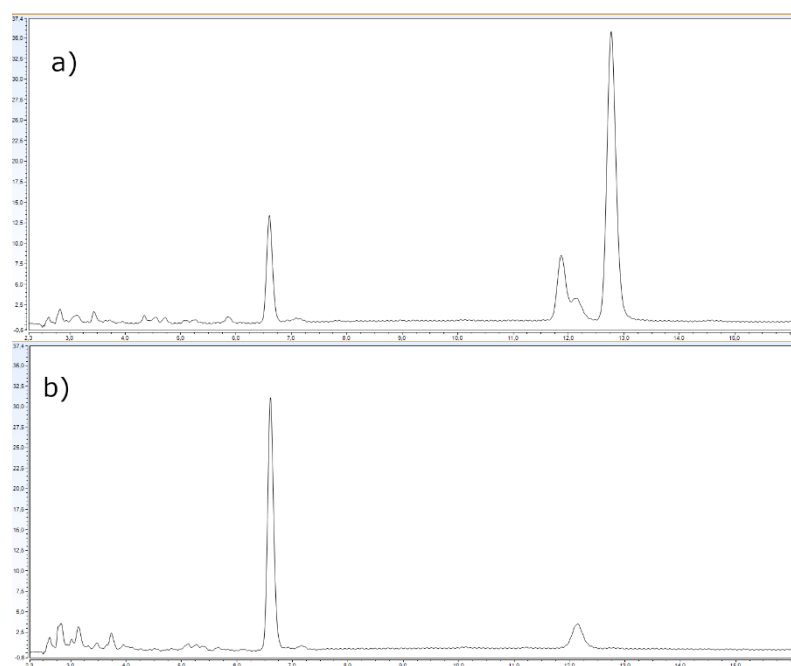


Figure S15. Chromatograms of the biotransformation mixtures of *Chaetomium indicum* AM 158 on days 2 (a) and 14 of the process (b).

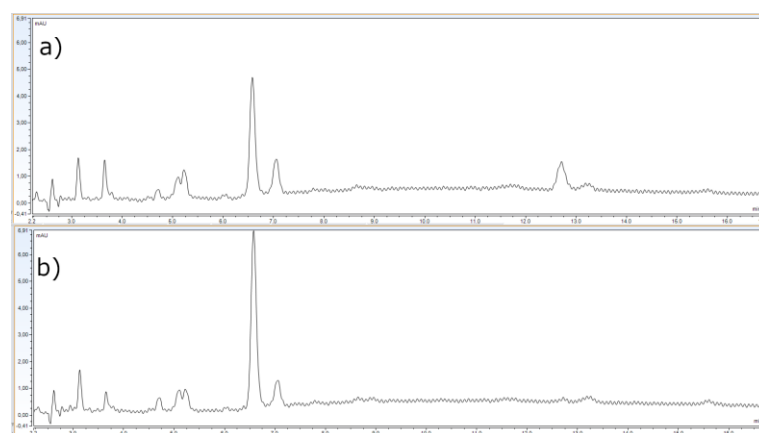


Figure S16. Chromatograms of the biotransformation mixtures of *Absidia cylindrospora* AM 336 on days 2 (a) and 14 of the process (b).