Supplementary Materials

Figure S1. HPLC-DAD chromatograms of all obtained *Miromelum* extracts in 280 nm.

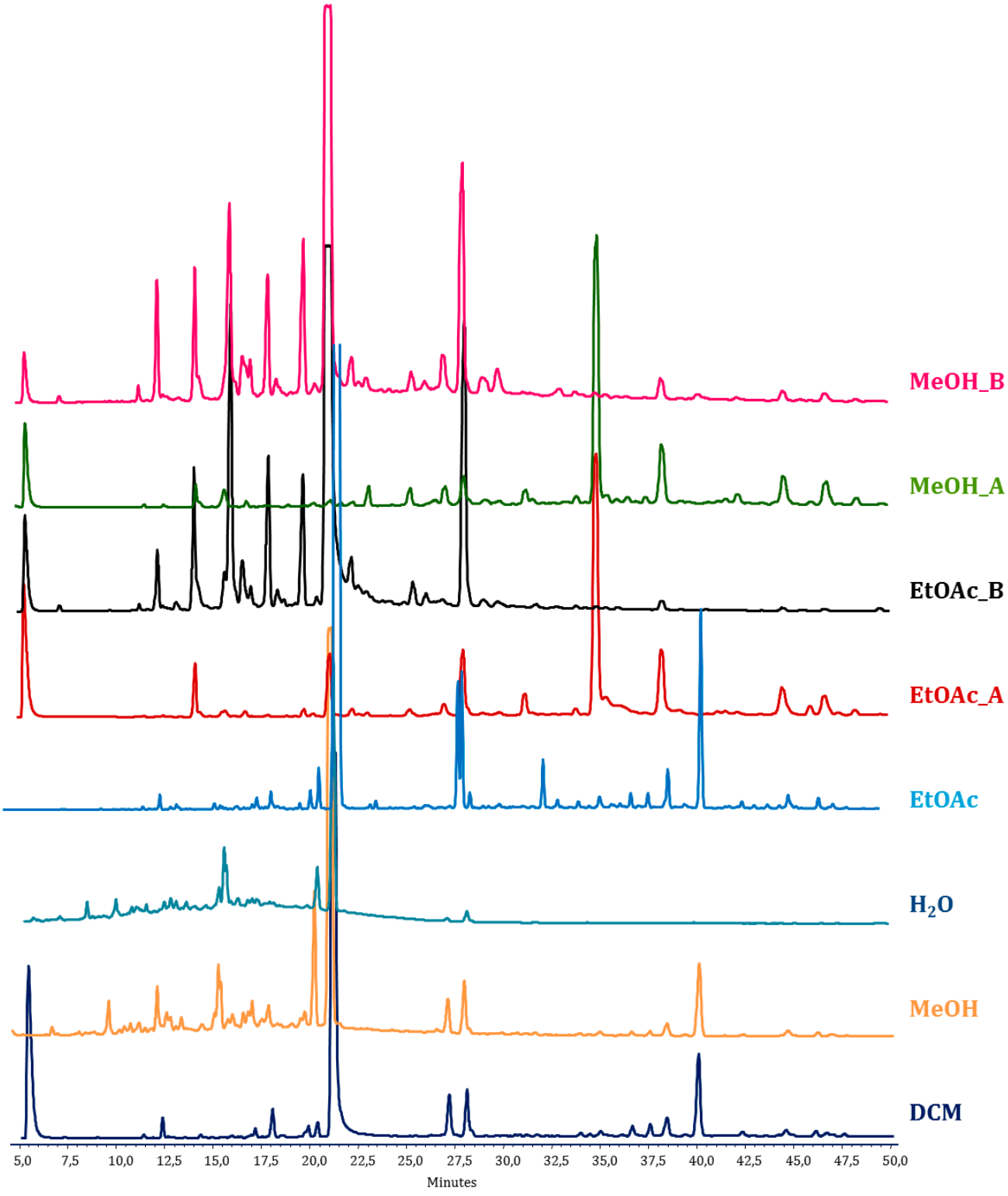


Figure S2. HPLC-DAD chromatograms of EtOAc, EtOAc_A and EtOAc_B extracts in 280 nm.

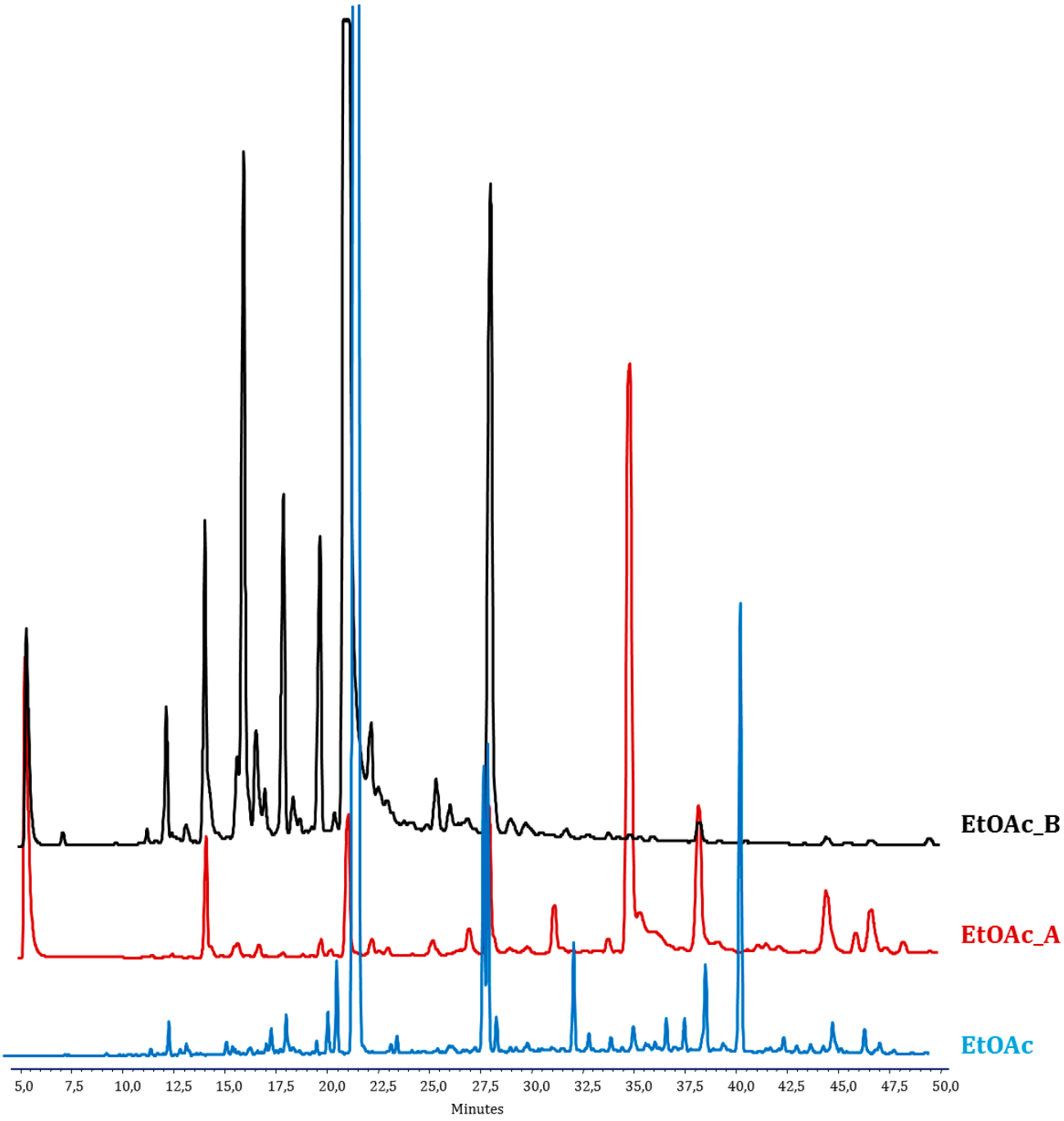


Figure S3. ^{1}H-NMR spectrum of microfalcrin (**1**) in CD_3OD.

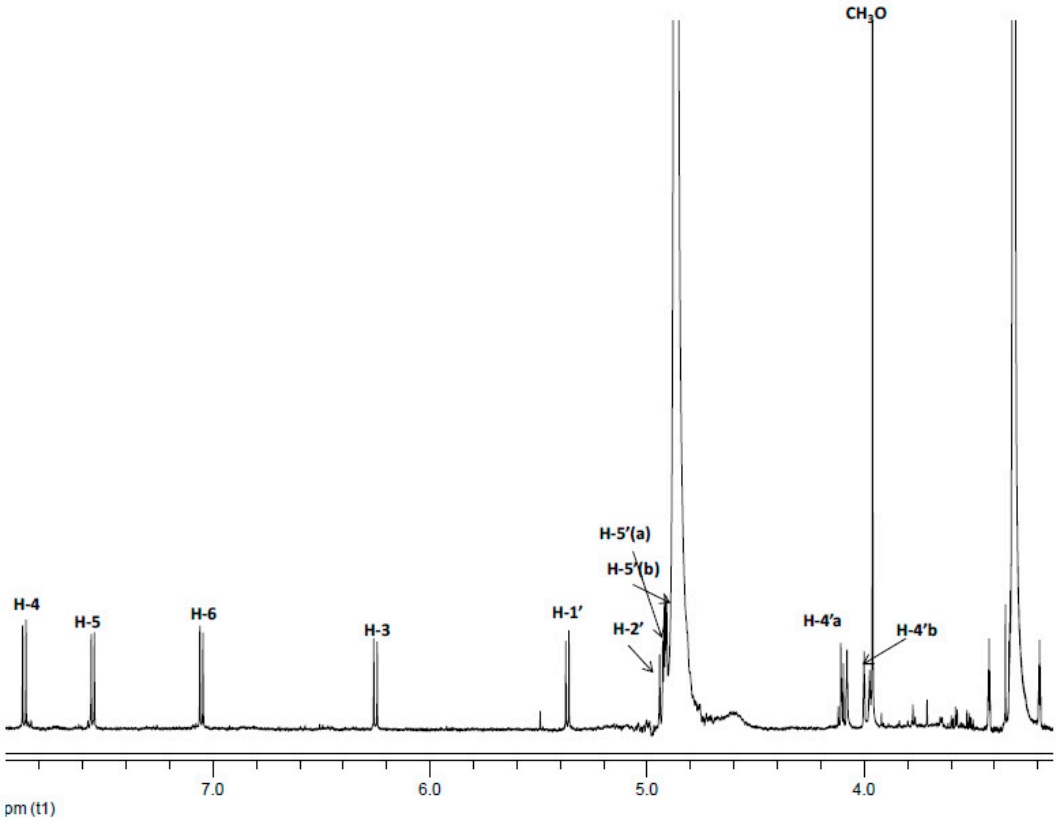


Figure S4. HSQC spectrum of microfalcrin (**1**) in CD_3OD.

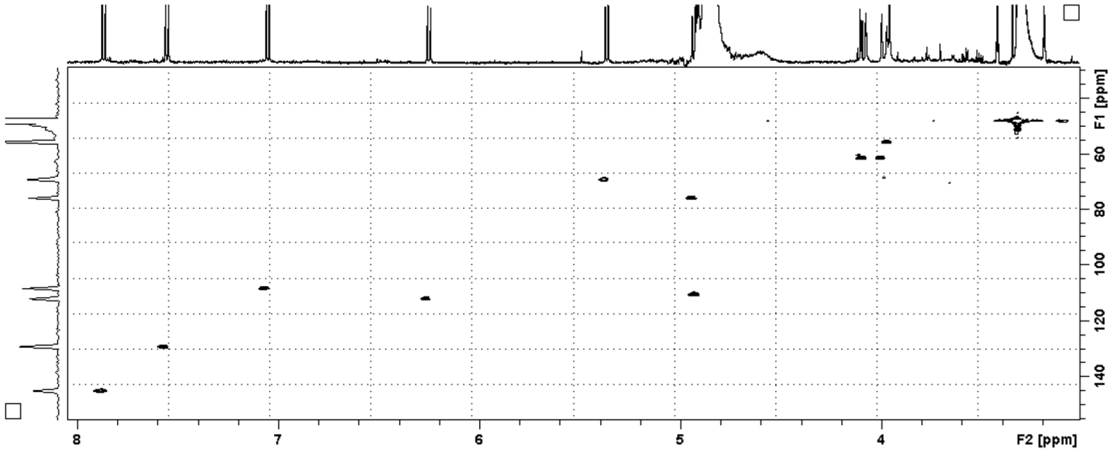


Figure S5. HMBC spectrum of microfalcrin (**1**) in CD_3OD.

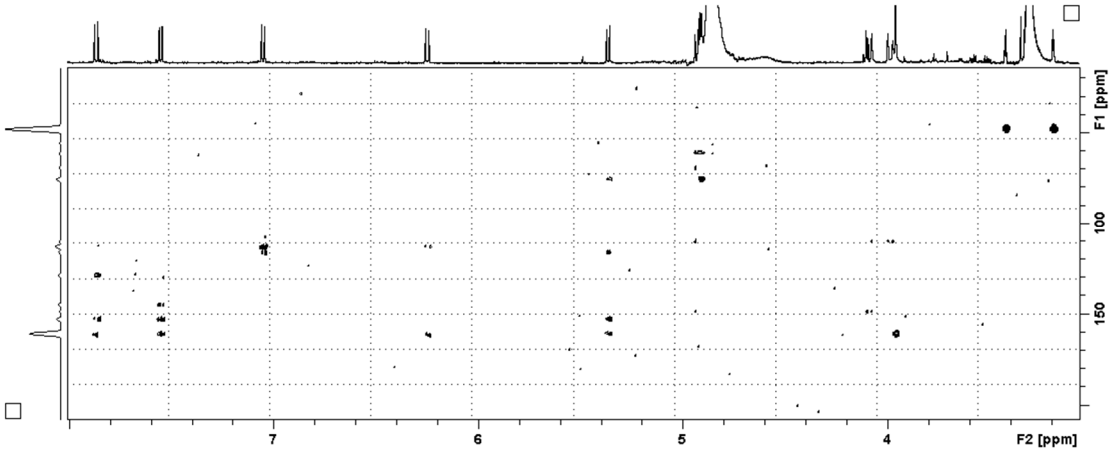


Figure S6. ^{1}H-NMR spectrum of microcoumaririn (**2**) in CD_3OD.

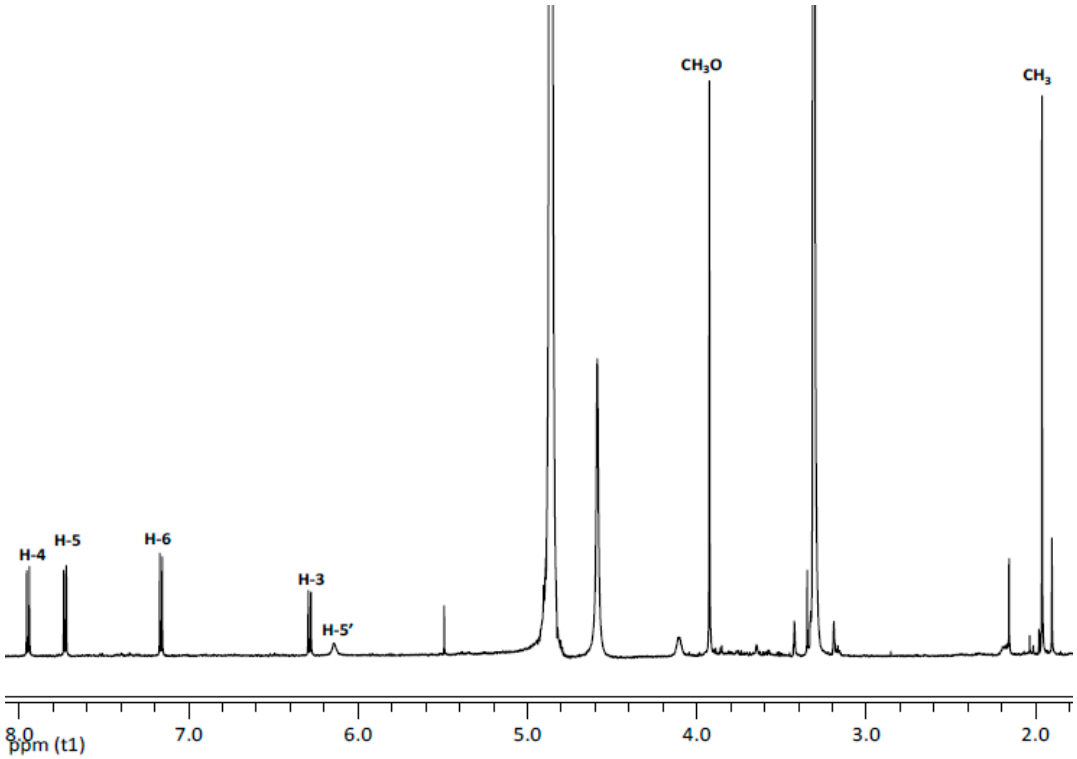


Figure S7. HSQC spectrum of microcoumaririn (**2**) in CD_3OD.

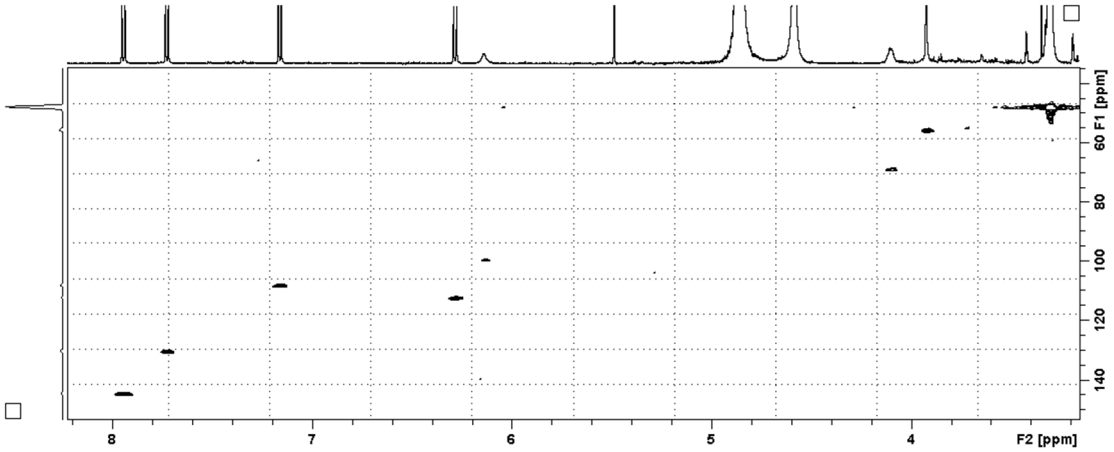


Figure S8. HMBC spectrum of microcoumaririn (**2**) in CD_3OD.

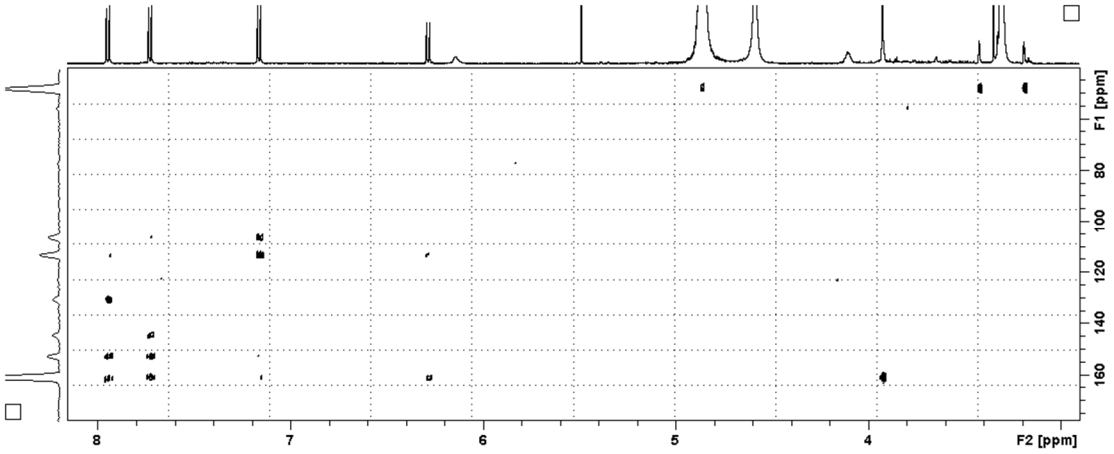


Figure S9. ^{1}H-NMR spectrum of micromelosidester (**3**) in CD_3OD.

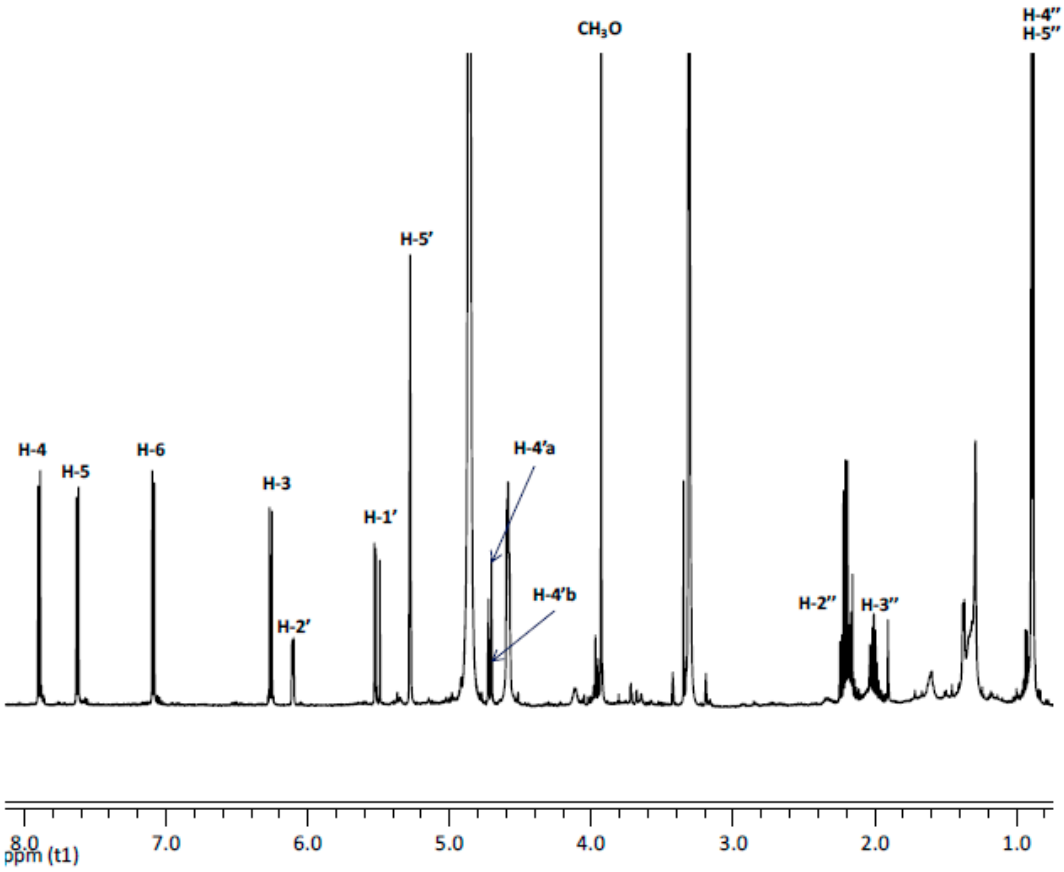


Figure S10. HSQC spectrum of micromelosidester (**3**) in CD_3OD.

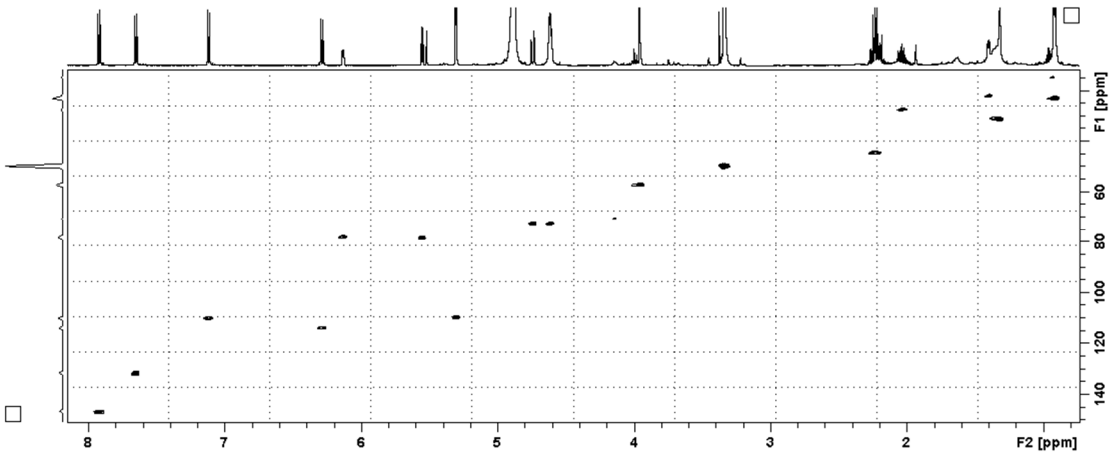


Figure S11. HMBC spectrum of micromelosidester (**3**) in CD_3OD.

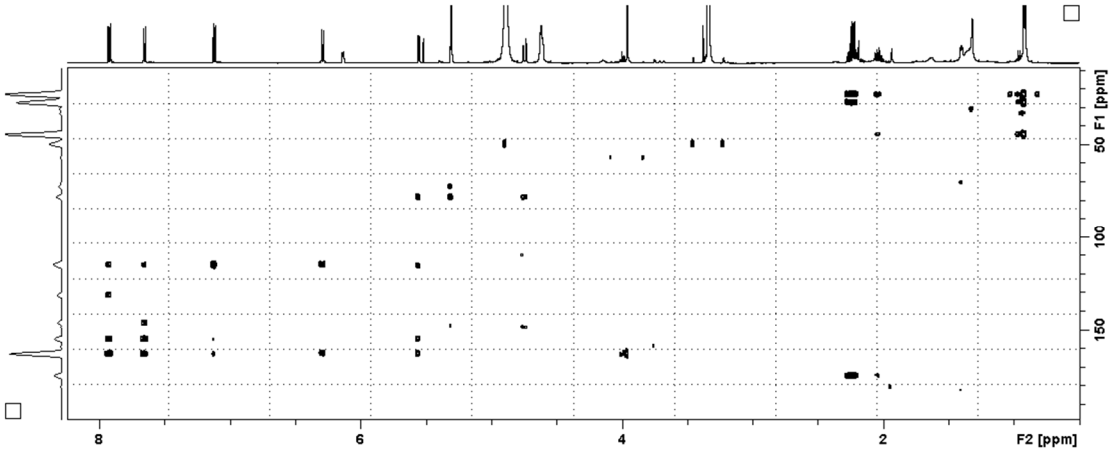
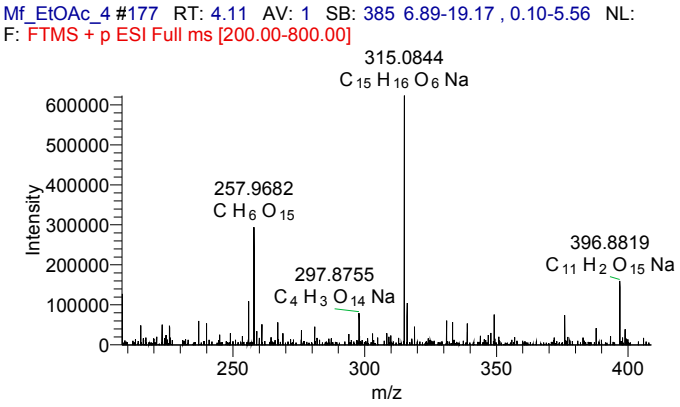
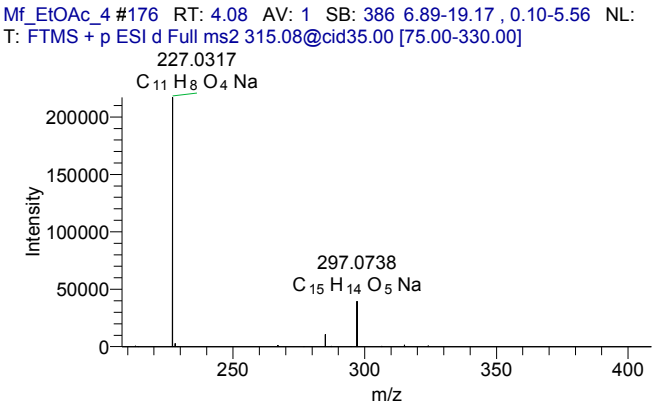


Figure S12. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 1 of Table 1.



(A)



(B)

Figure S13. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 3 of Table 1.

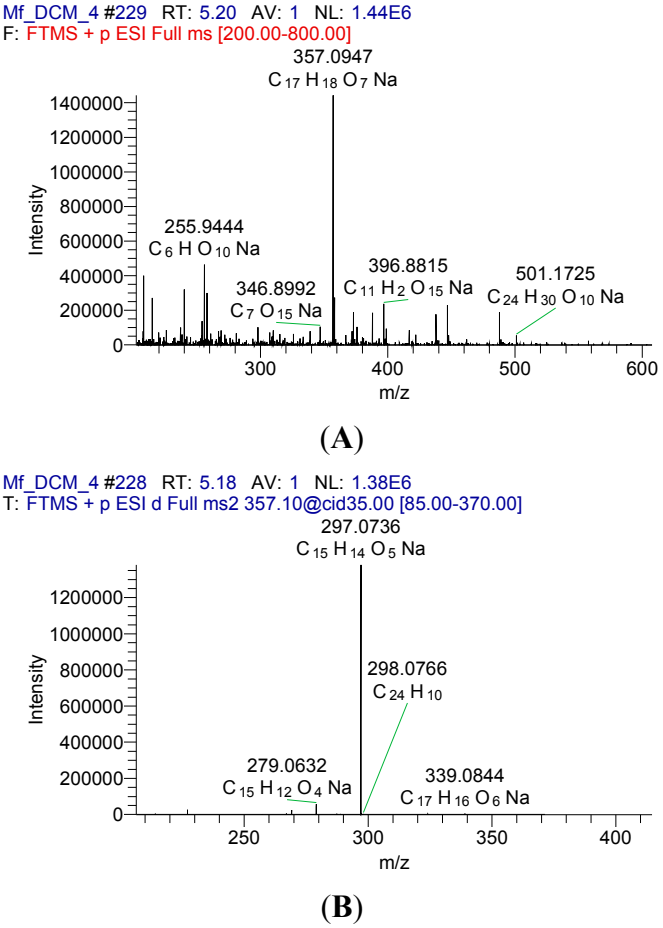


Figure S14. Full scan MS spectrum of peak 4 of Table 1.

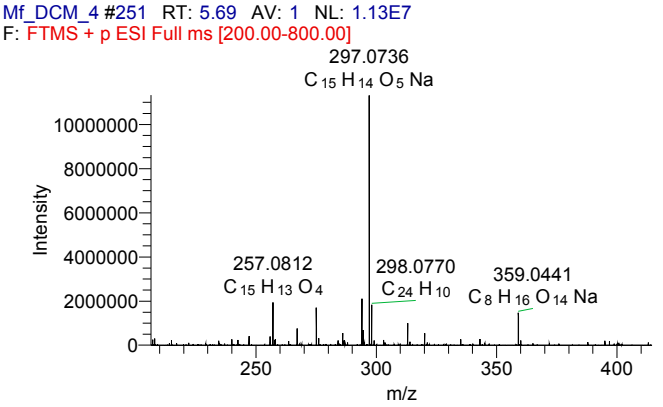


Figure S15. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 5 of Table 1.

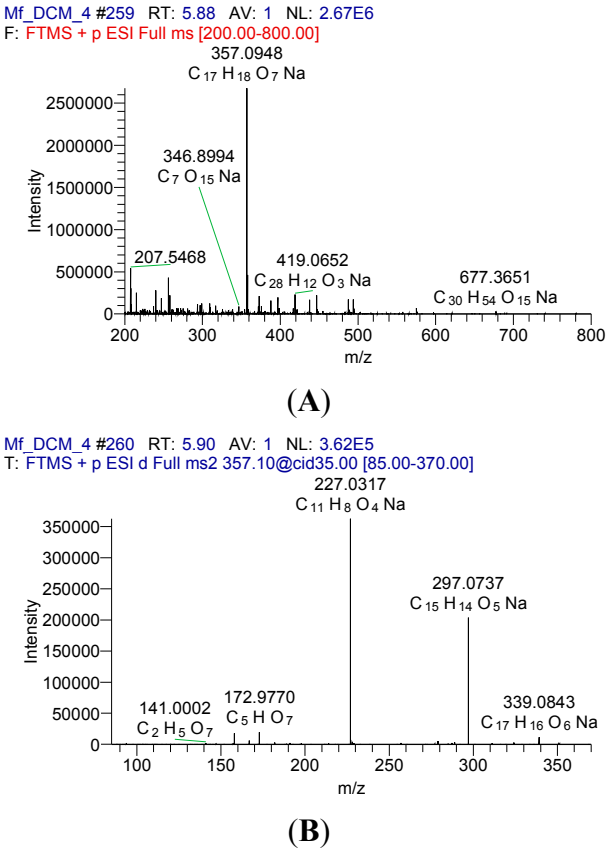


Figure S16. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 6 of Table 1.

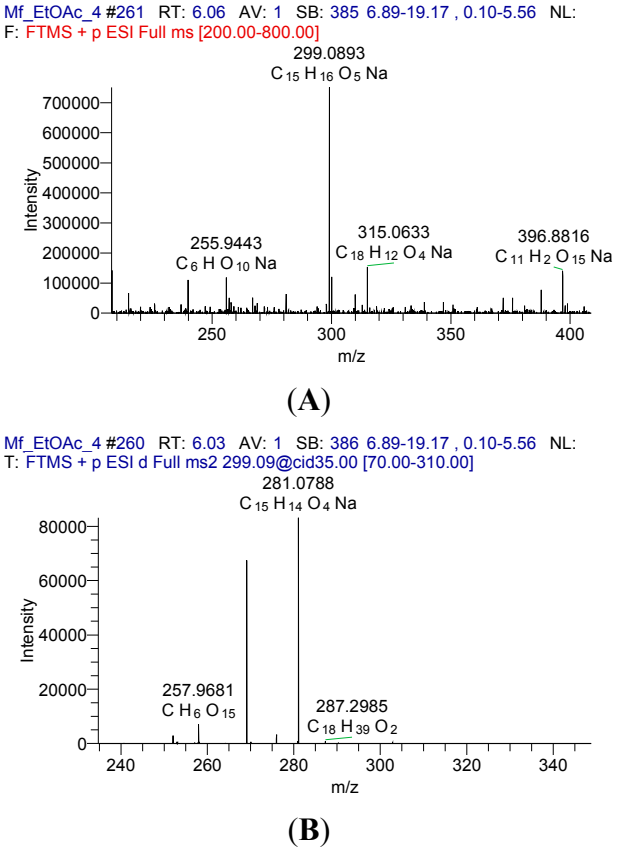


Figure S17. Full scan MS spectrum of peak 7 of Table 1.

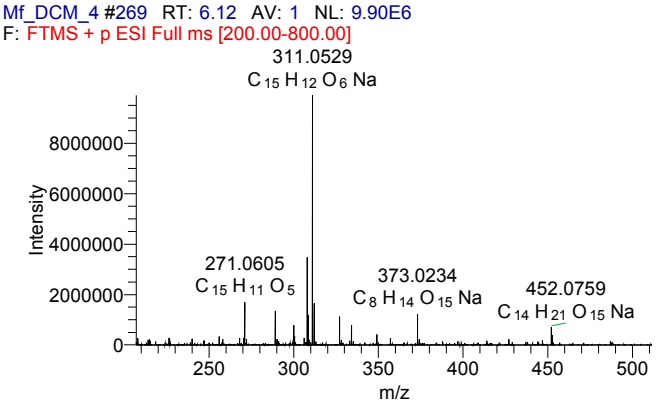
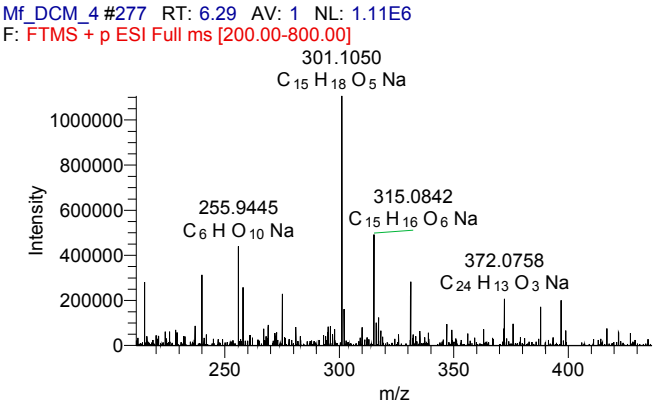
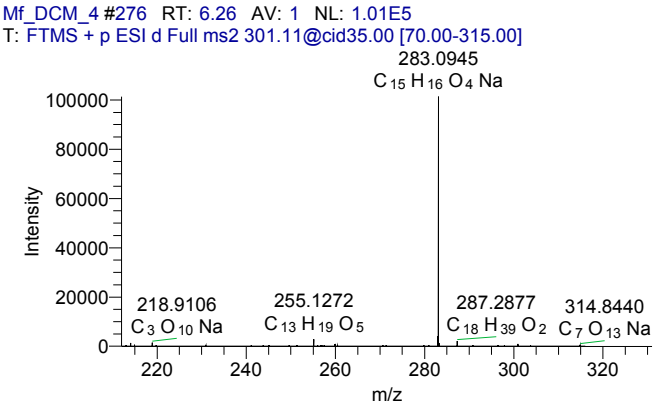


Figure S18. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 8 of Table 1.



(**A**)



(**B**)

Figure S19. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 9 of Table 1.

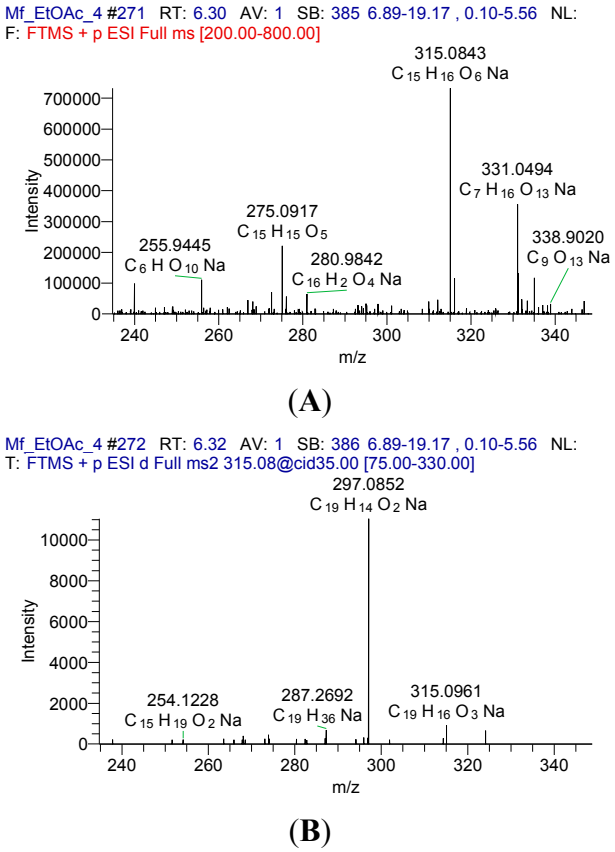


Figure S20. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 12 of Table 1.

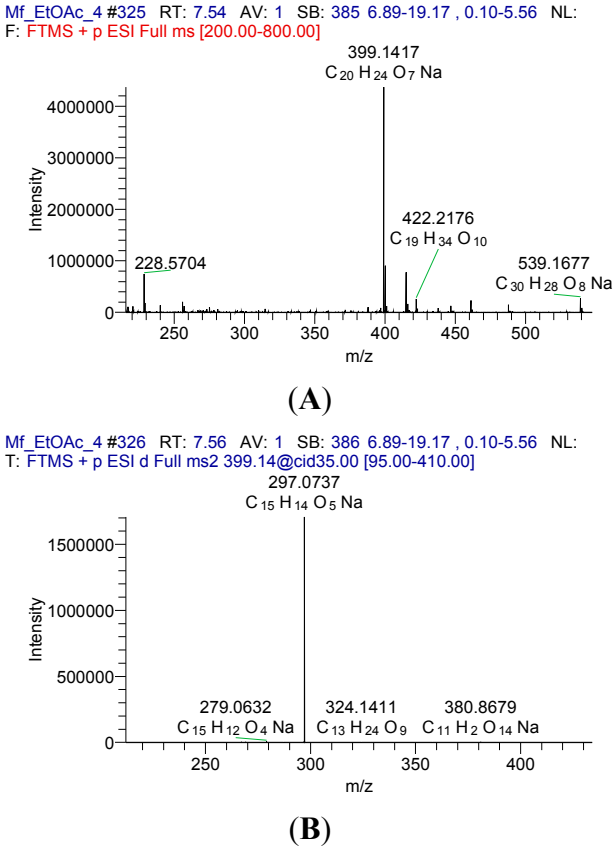
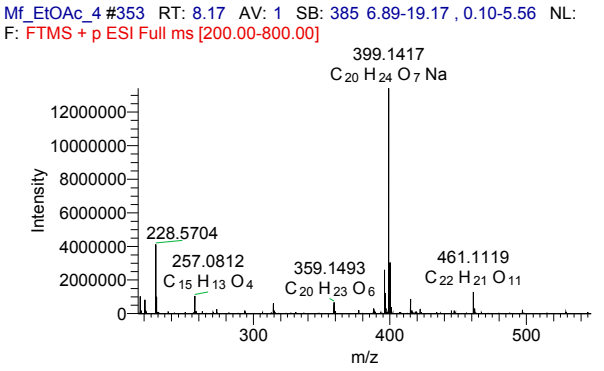
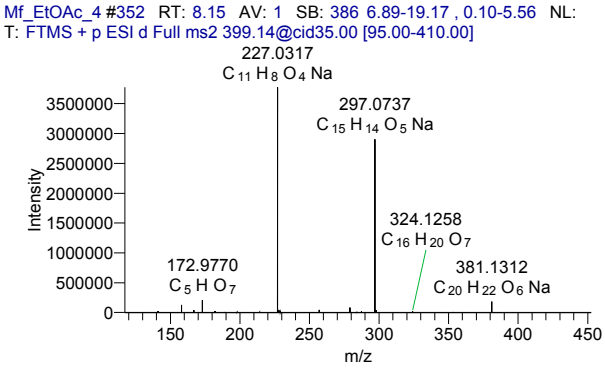


Figure S21. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 14 of Table 1.

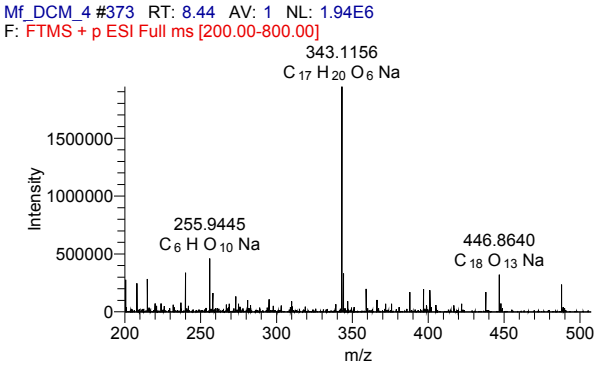


(A)

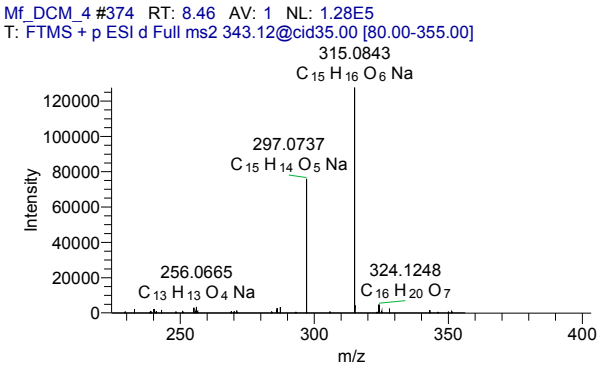


(B)

Figure S22. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 15 of Table 1.

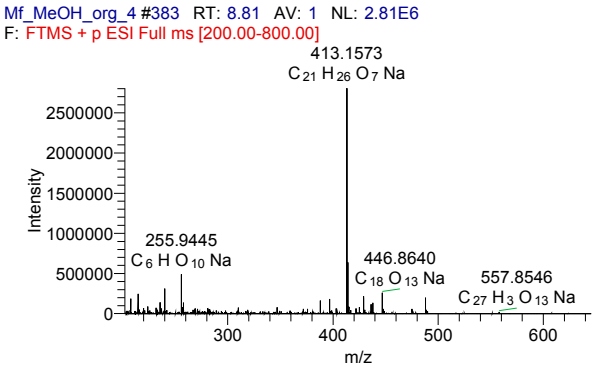


(A)

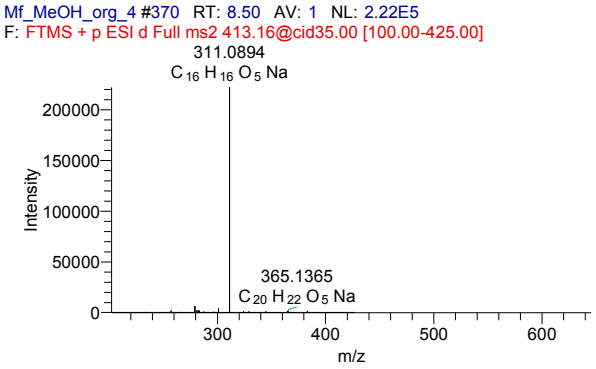


(B)

Figure S23. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 16 of Table 1.

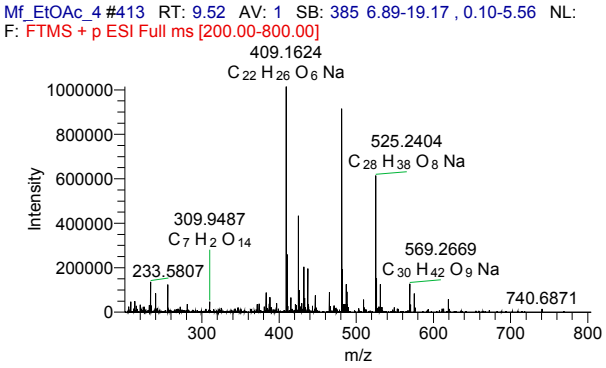


(A)

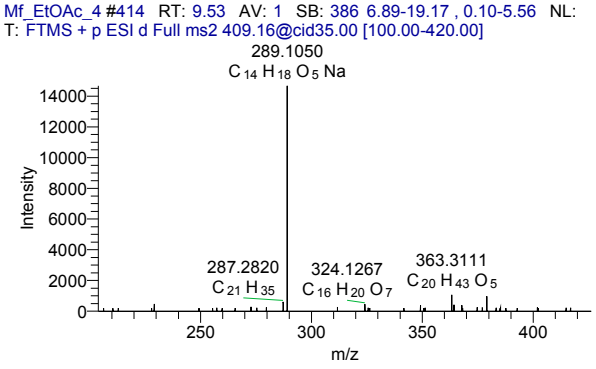


(B)

Figure S24. Full scan MS (**A**) and MS/MS (**B**) spectra of peak 17 of Table 1.

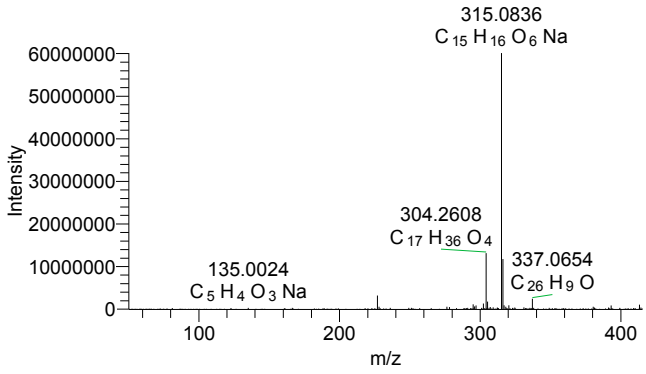


(A)

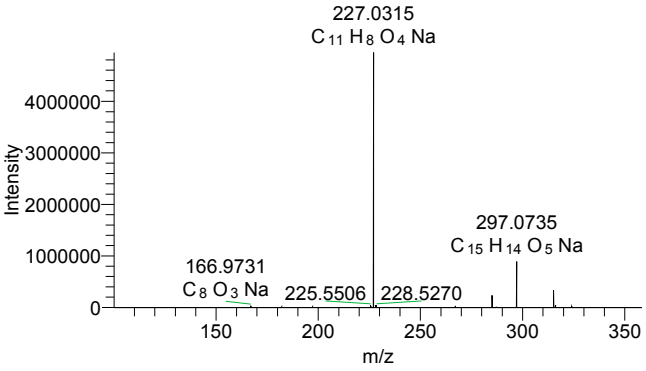


(B)

Figure S25. Full scan MS (**A**) and MS/MS (**B**) spectra of microfalcrin (**1**) in ESI(+).



(**A**)



(**B**)

Figure S26. Full scan MS spectrum of microcoumaririn (**2**) in ESI(+).

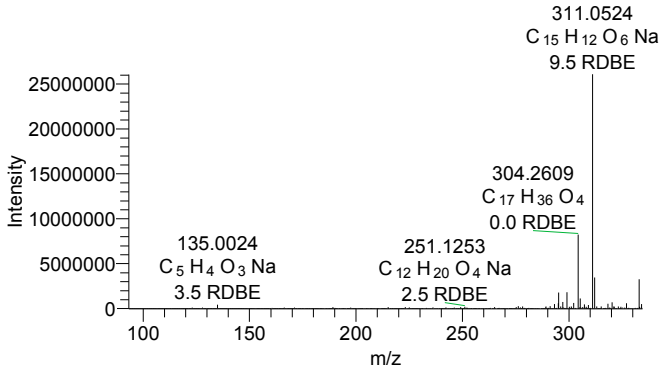
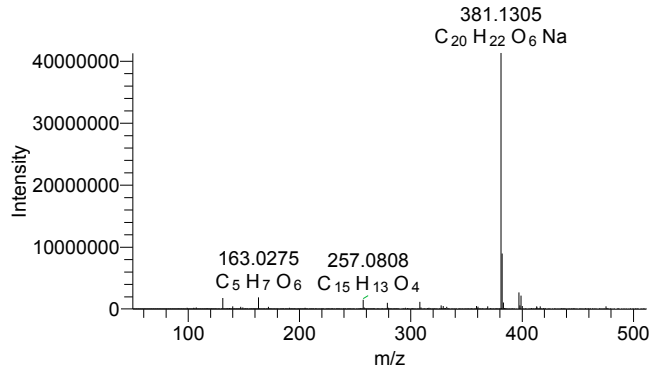
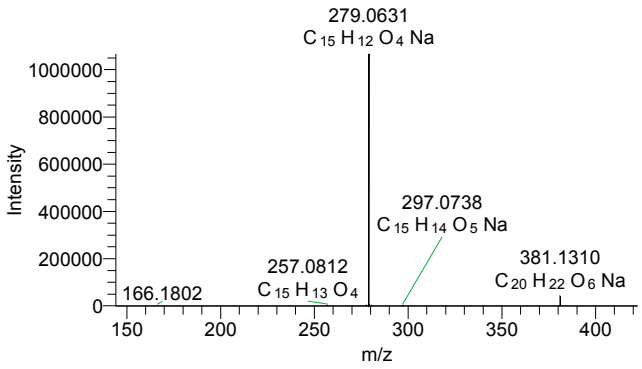


Figure S27. Full scan MS (**A**) and MS/MS (**B**) spectra of micromelosidester (**3**) in ESI(+).



(**A**)



(**B**)

Figure S28. Full scan MS spectrum of micromeloside A (**4**) in ESI(+).

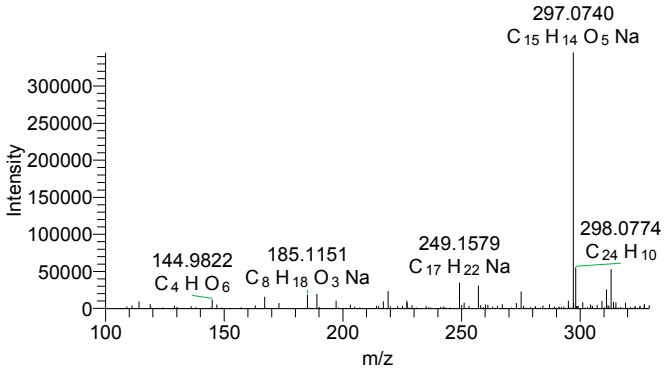


Figure S29. Full scan MS spectrum of microminutin (**5**) in ESI(+).

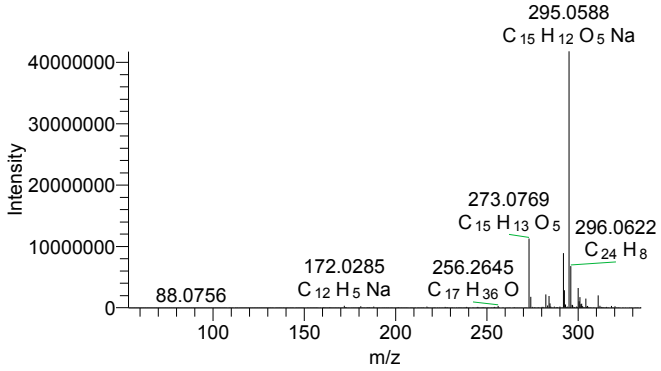


Figure S30. Full scan MS spectrum of micromelin (**6**) in ESI(+).

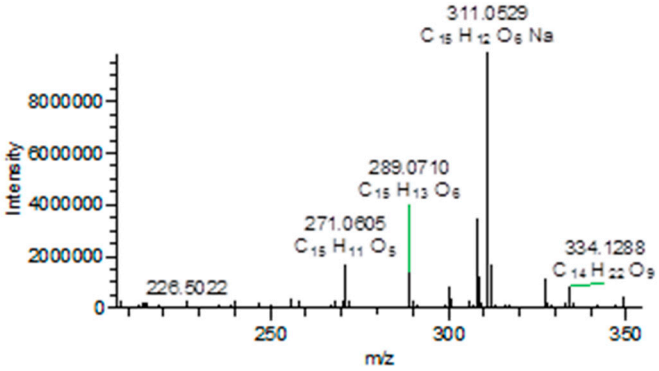
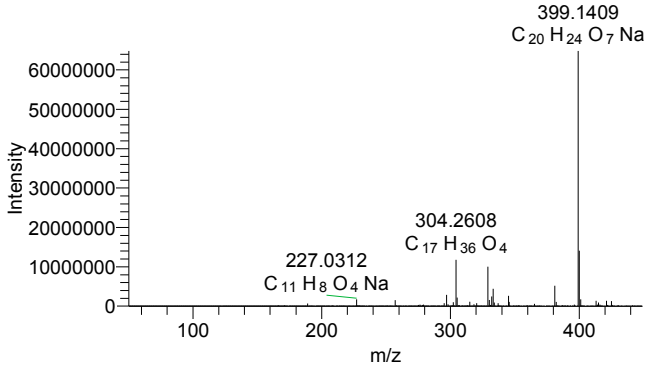
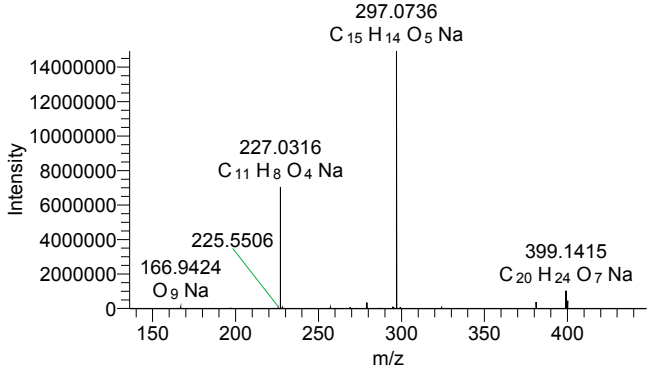


Figure S31. Full scan MS (**A**) and MS/MS (**B**) spectra of micromarin B (**7**) in ESI(+).

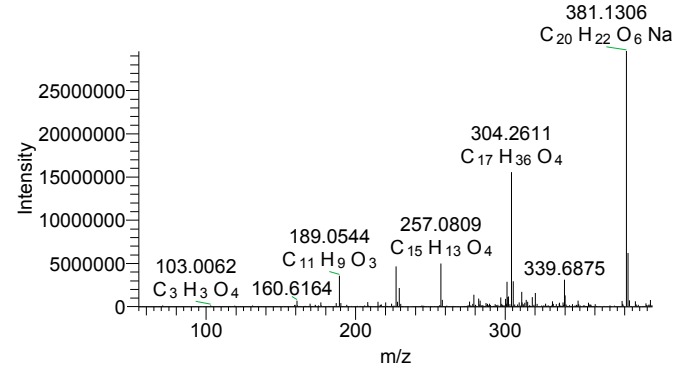


(**A**)

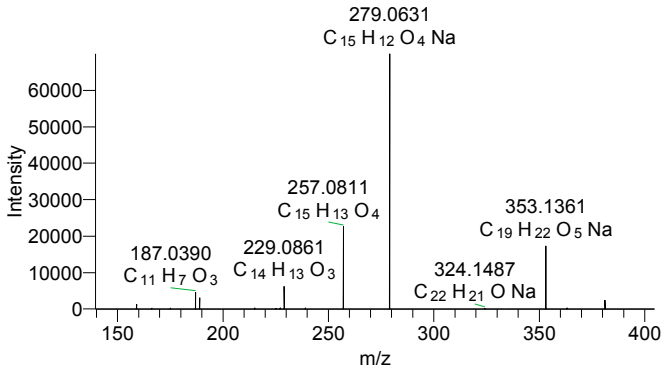


(**B**)

Figure S32. Full scan MS (**A**) and MS/MS (**B**) spectra of micromarin A (**8**) in ESI(+).



(**A**)



(**B**)

Figure S33. Percentage of nitrite oxide production relative to control (LPS-induced); Resv: Resveratrol, Mmin: Microminutin (**5**), Mmar B: Micromarin B (**7**); MmEtOAc: EtOAc extract.

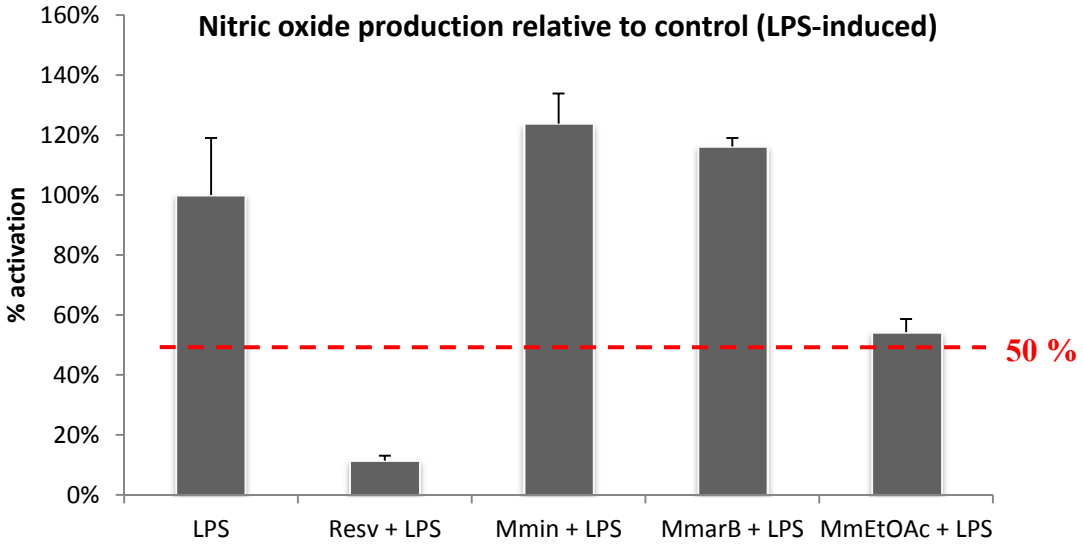


Figure S34. Percentage of NFκB induction relative to control (TNF-α treated); Resv: Resveratrol, Mmin: Microminutin (**5**), Mmar B: Micromarin B (**7**); MmEtOAc: EtOAc extract.