

Supplementary Material for
Enzymatic Synthesis and Molecular Modeling Studies of Rhamnose Esters using
Lipase from *Pseudomonas stutzeri*

Cecilia Garcia-Oliva ¹, Almudena Perona ¹, Ángel Rumbero ², Pilar Hoyos ¹, and María J. Hernáiz ^{1,*}

¹ Department of Chemistry in Pharmaceutical Sciences, Faculty of Pharmacy, Complutense University of Madrid, Plaza Ramón y Cajal, E 28040 Madrid, Spain

² Department of Organic Chemistry, Autonomous University of Madrid, Cantoblanco, 28049 Madrid, Spain

* Correspondence: mjhernai@ucm.es

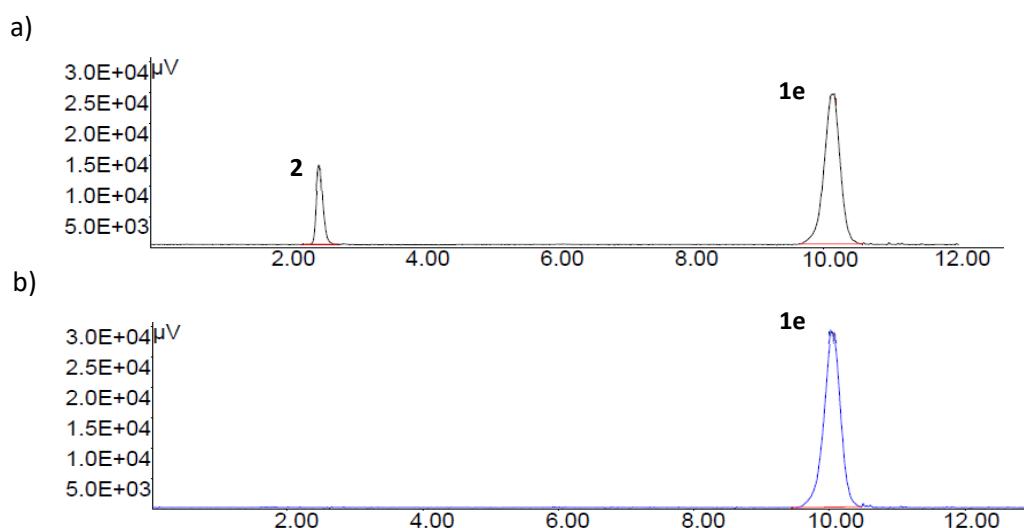


Figure S1. HPLC analyses of different reaction times of the PSL-catalysed transesterification reaction of **2** with the acyl donor **3e** (synthesis of **1e**); mobile phase: acetonitrile:water, 70:30, flow 0.7 mL/min: a) reaction time 2 h; b) reaction time 3 h.

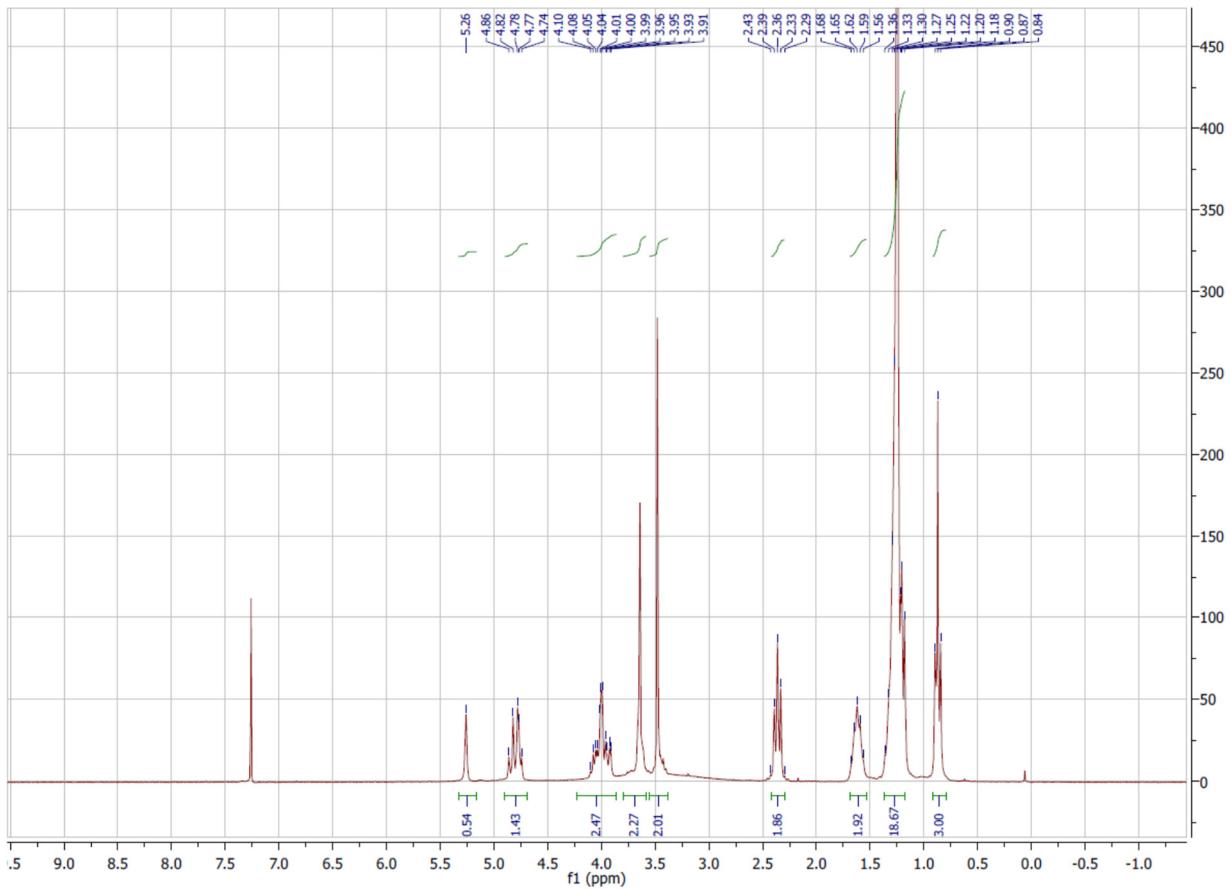


Figure S2. ¹H-NMR spectra 4-O-lauroylrhamnose (**1e**).

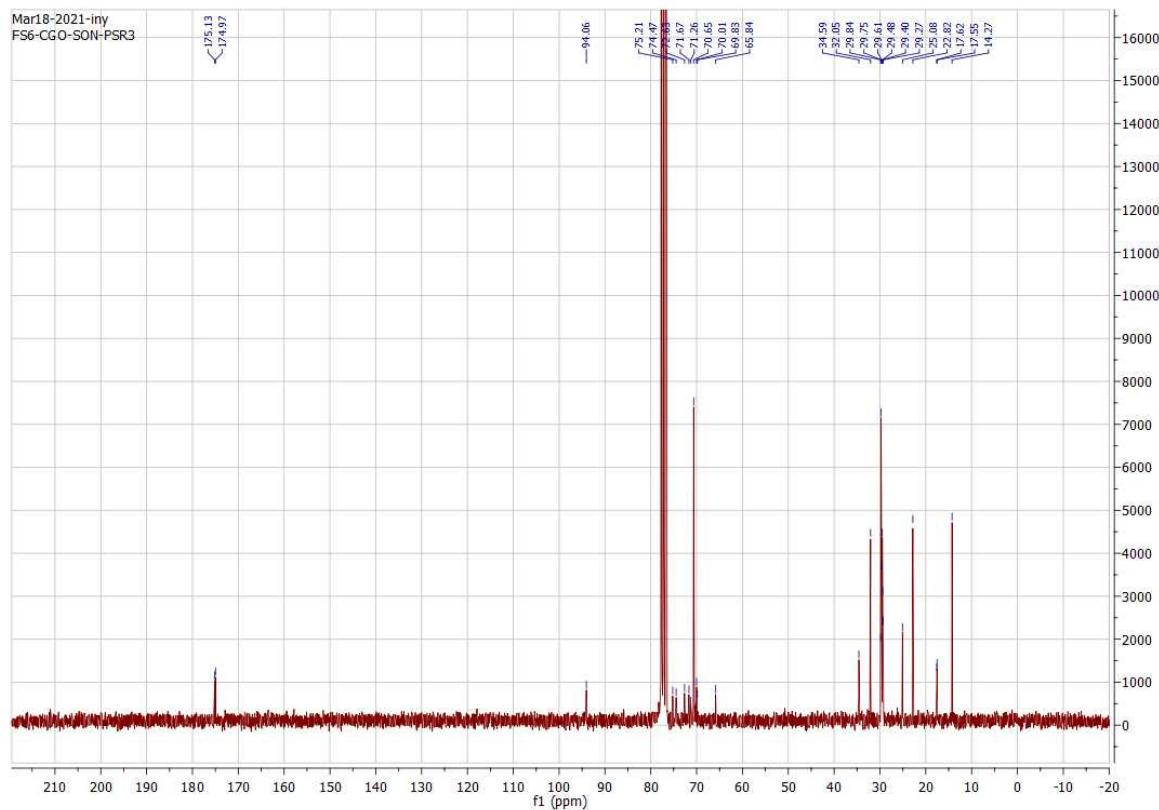


Figure S3. ¹³C-NMR spectra 4-O-lauroylrhamnose (**1e**).

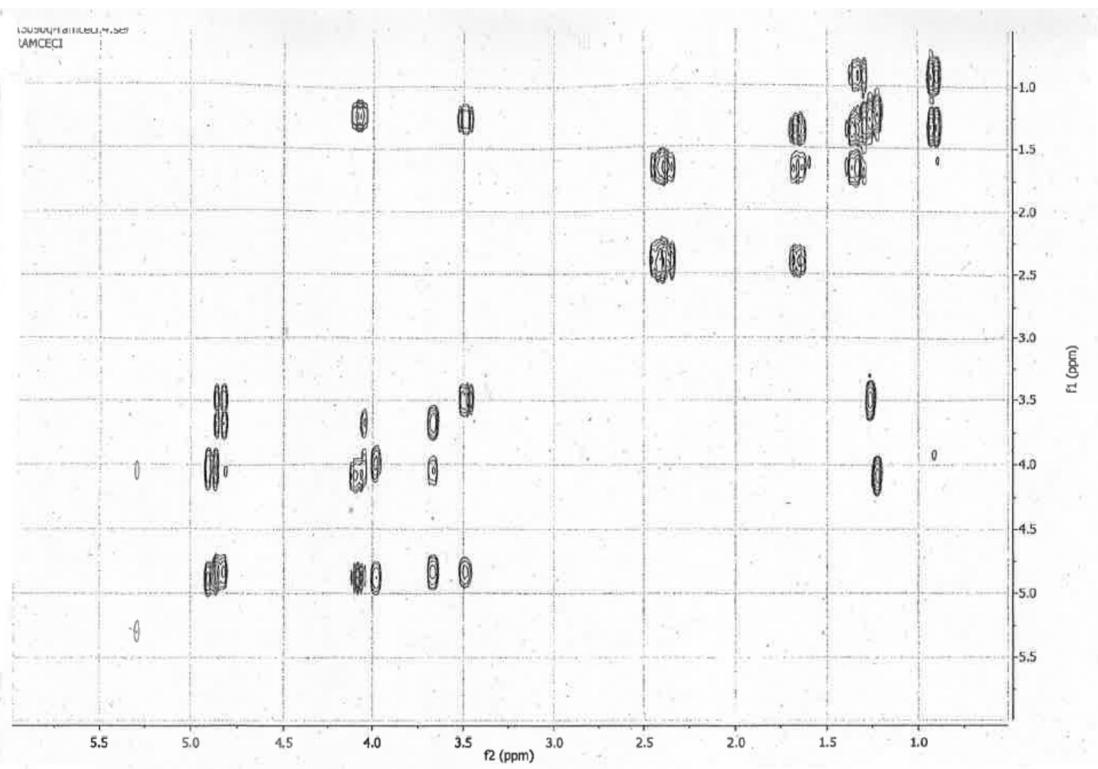


Figure S4. COSY spectrum of 4-O-lauroylrhamnose (**1e**)

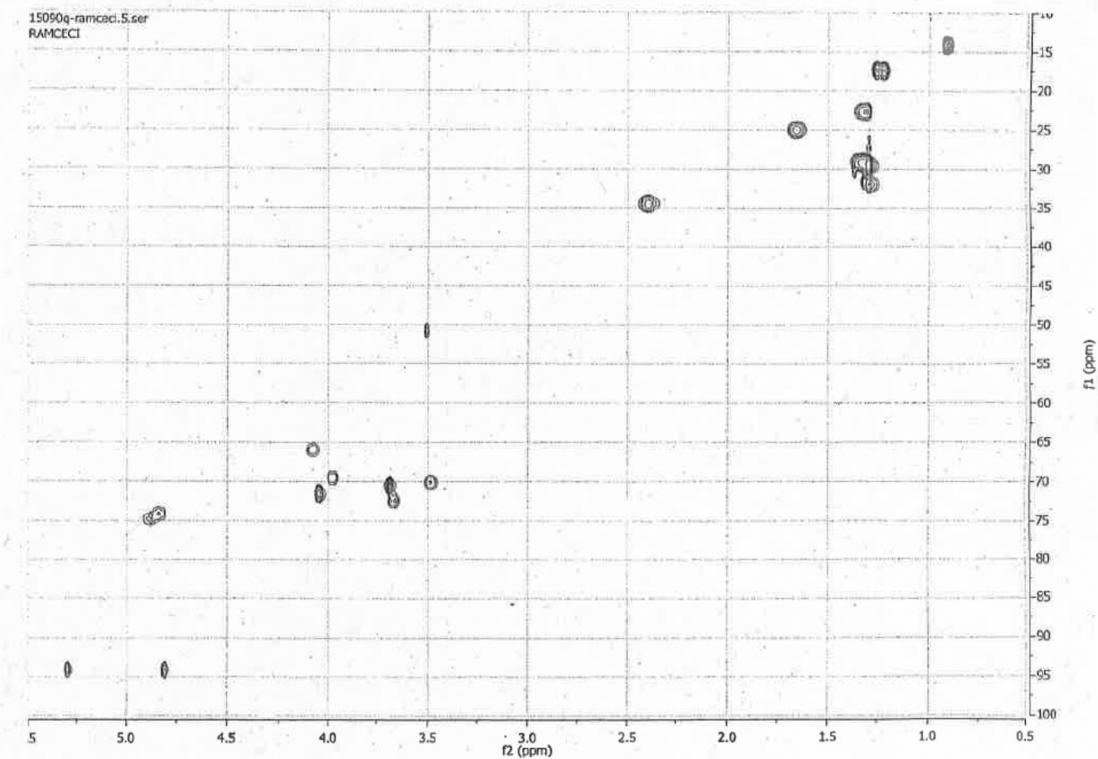


Figure S5. HSQC spectrum of 4-O-lauroylrhamnose (**1e**)

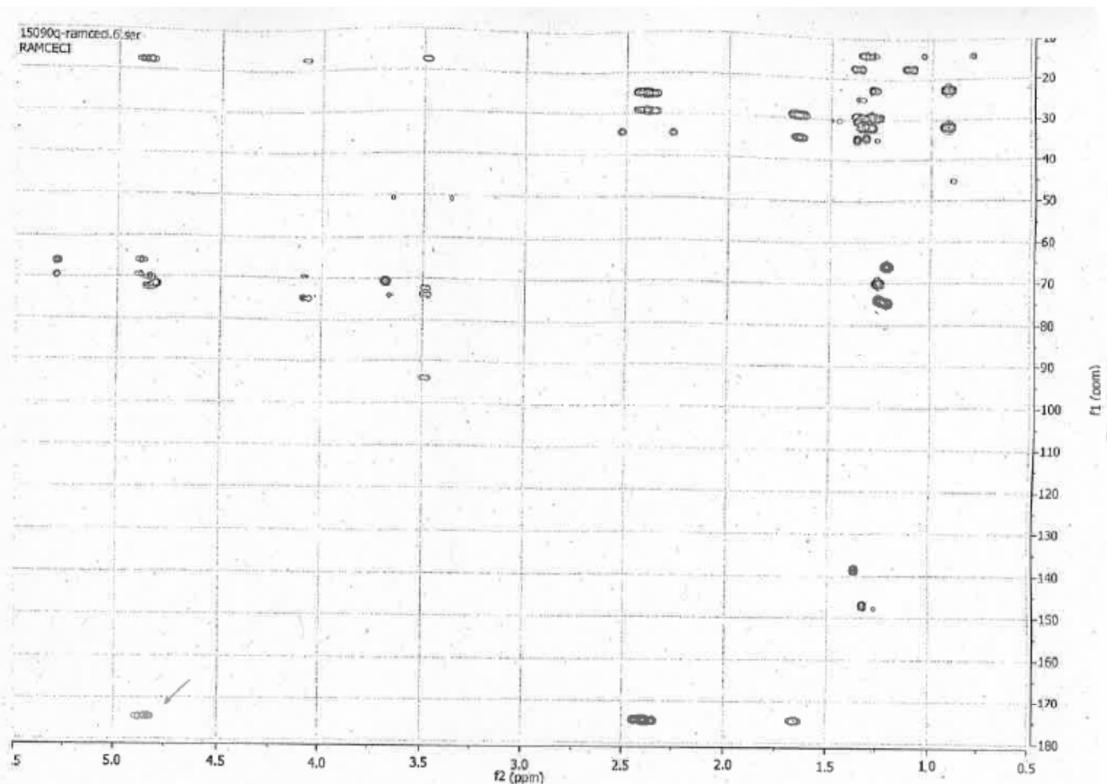


Figure S6. HMBC spectrum of 4-O-lauroylrhamnose (**1e**)

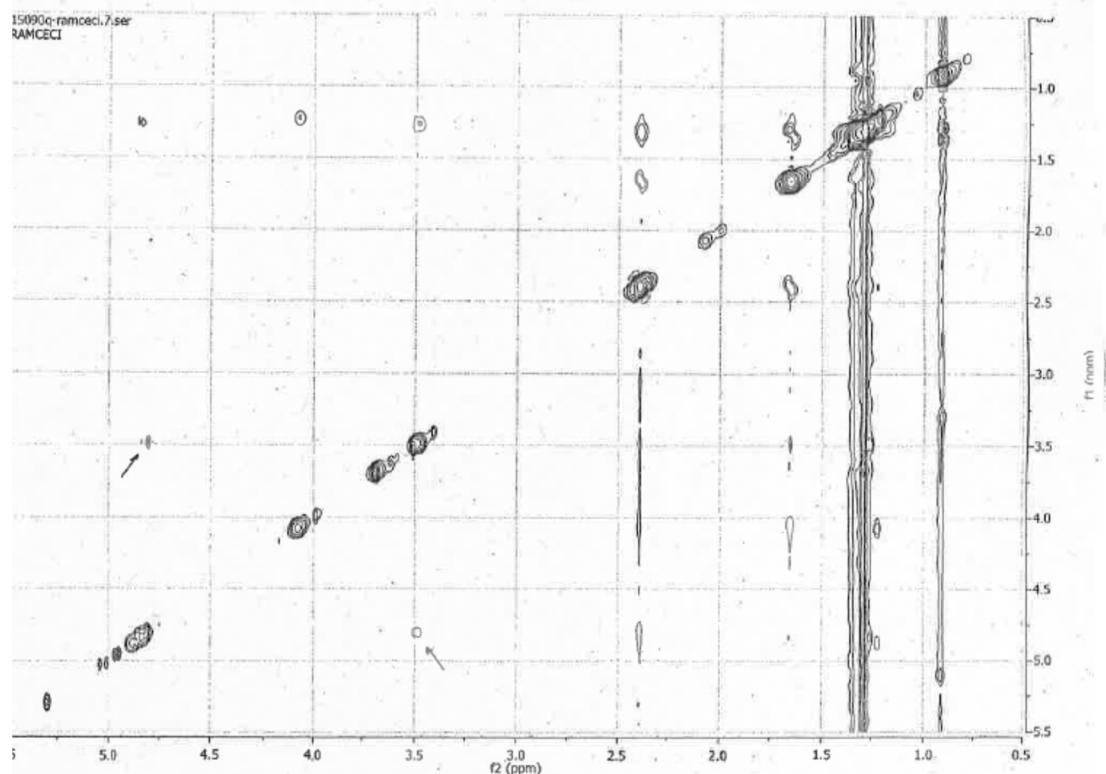


Figure S7. ROESY spectrum of 4-O-lauroylrhamnose (**1e**)

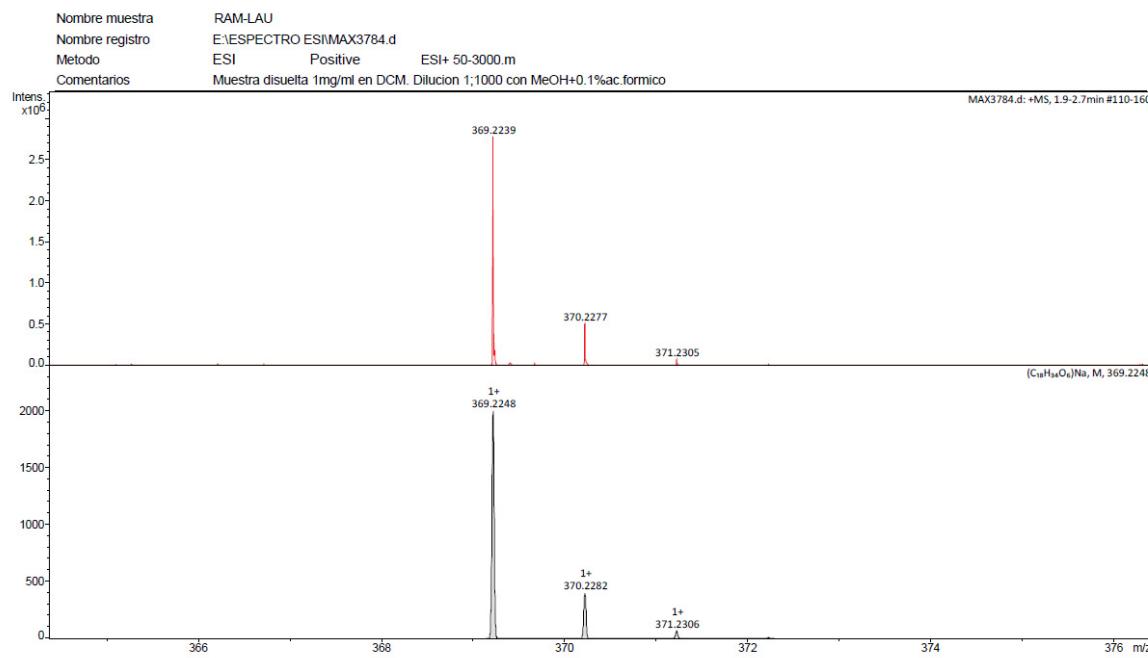


Figure S8. MS spectra for 4-O-lauroylrhamnose (**1e**).

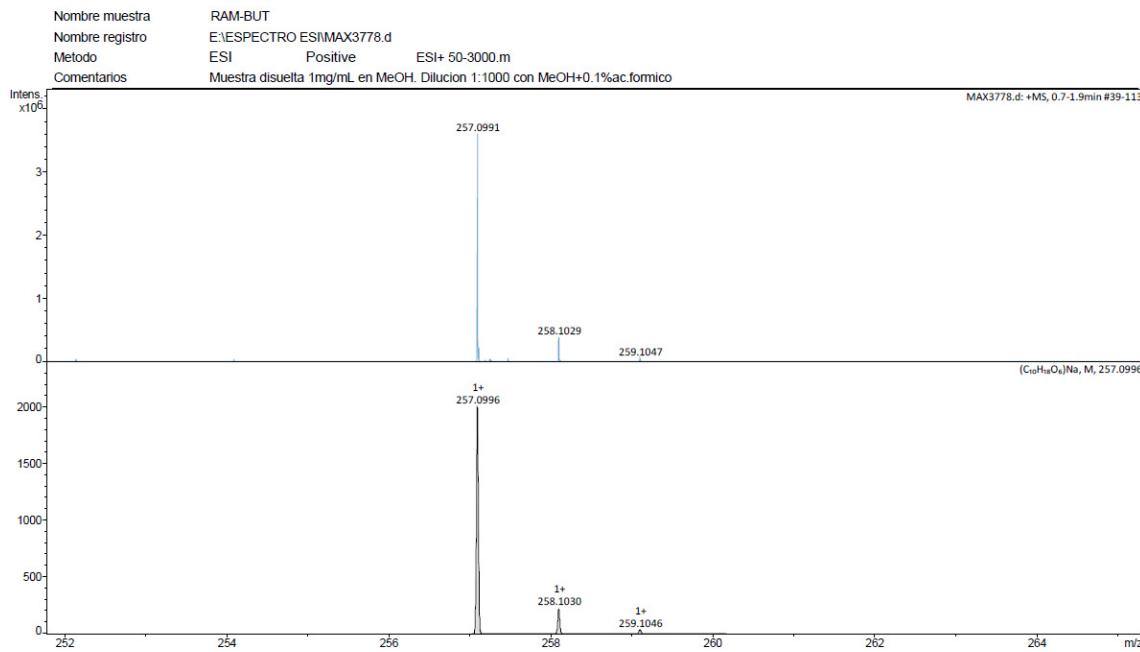


Figure S9. MS spectra for 4-O-butyrylrhamnose (**1a**).

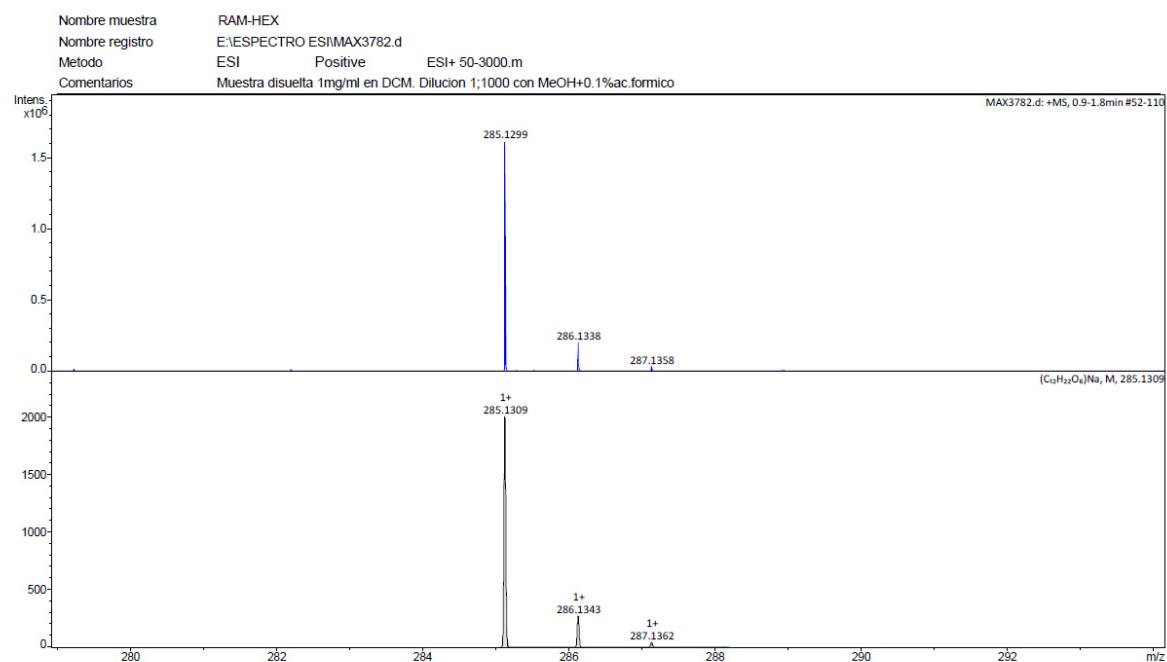


Figure S10. MS spectra for 4-*O*-hexanoyl-rhamnose (**1b**).

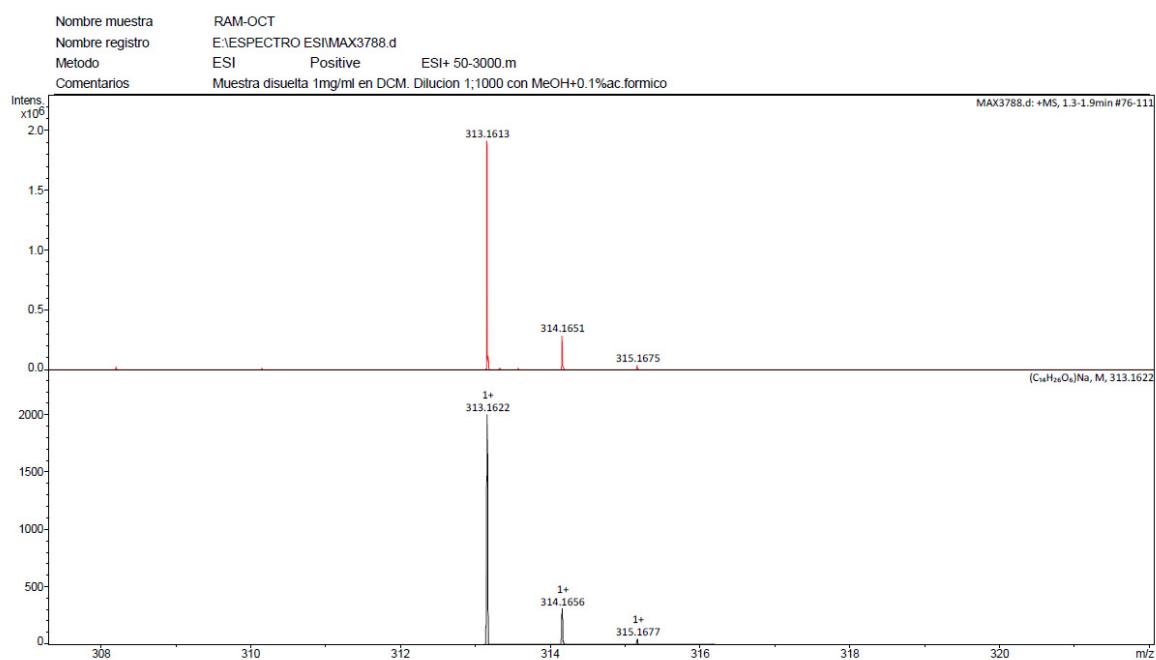


Figure S11. MS spectra for 4-*O*-octanoyl-rhamnose (**1c**).

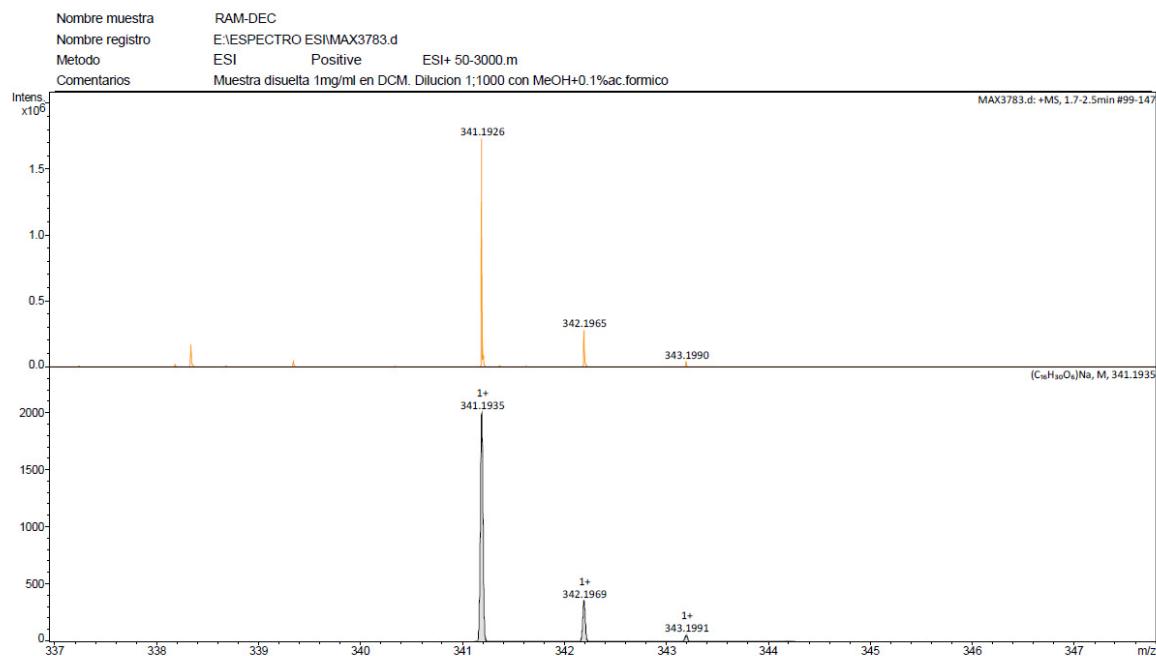


Figure S12. MS spectra for 4-*O*-decanoylrhamnose (**1d**).

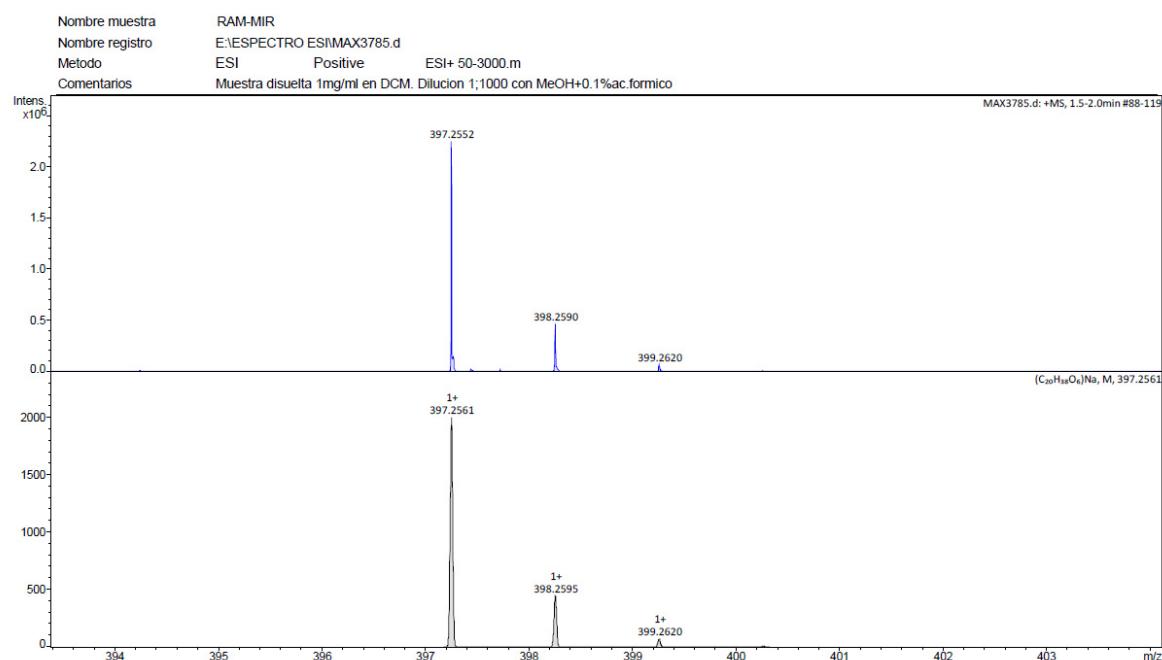


Figure S13. MS spectra for 4-*O*-myristylrhamnose (**1f**).

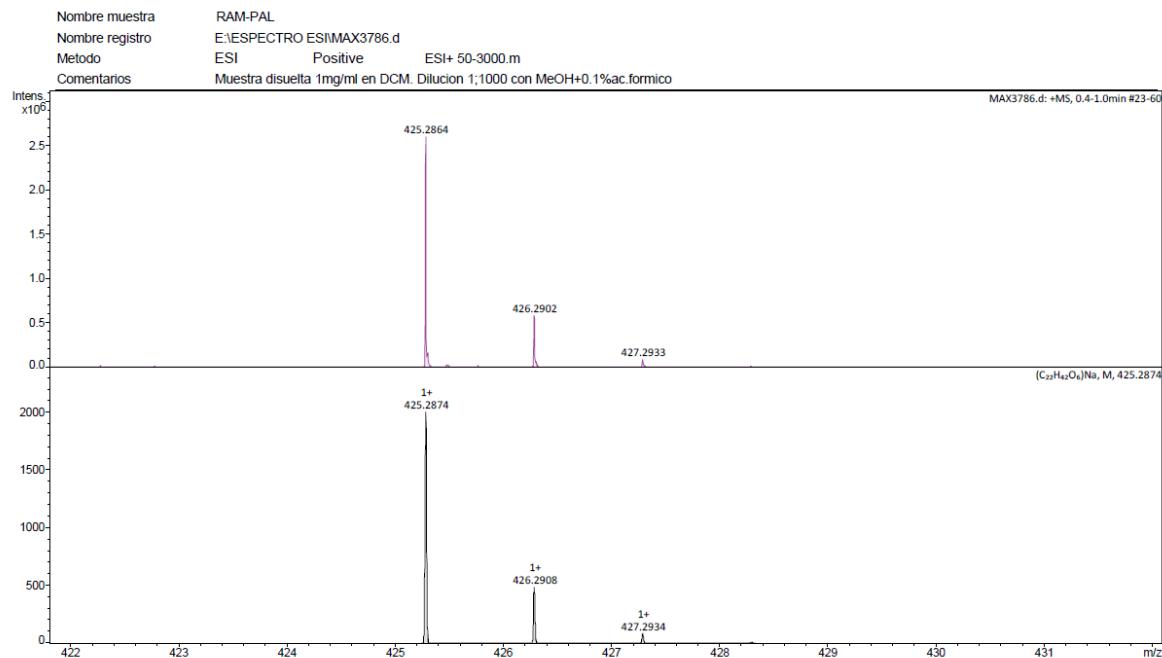


Figure S14. MS spectra for 4-O-palmitoyl-rhamnose (**1g**).

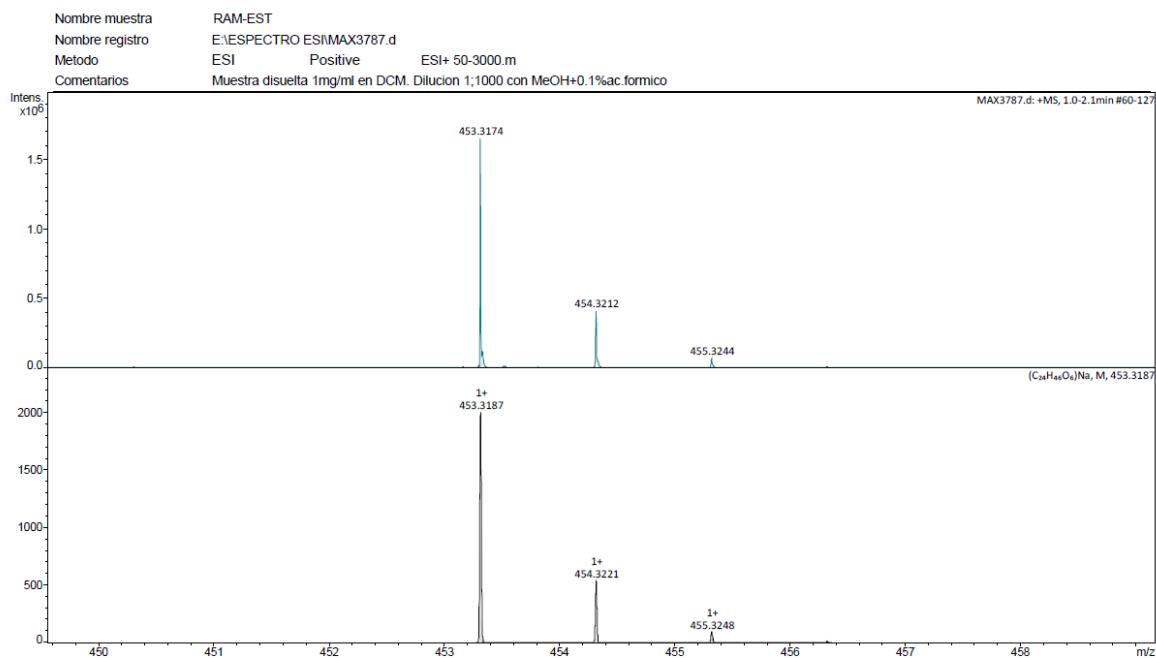


Figure S15. MS spectra for 4-O-stearoyl-rhamnose (**1h**).