

Supplementary Information

Synthesis of Polyols from *Mabea fistulifera* Mart. (Euphorbiaceae) Oil

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Table S1. Chemical shifts (δ) and assignments of the principal signals observed in the ^1H NMR spectrum of *M. fistulifera* oil

Signal number	Chemical shift δ / ppm	Assignment
1	7.25	CHCl_3
2	5.35	$\text{CH}=\text{CH}$
3	5.25	$-\text{CHOCOR}$
4	4.30-4.10	$-\text{CH}_2\text{OCOR}$
5	2.76	$\text{CH}=\text{CHCH}_2\text{CH}=\text{CH}$
6	2.30	$-\text{COCH}_2$
7	2.03	$-\text{CH}_2\text{CH}=\text{CH}$
8	1.59	$-\text{COCH}_2\text{CH}_2$
9	1.30	$(\text{CH}_2)_n$
10	0.97	$\text{CH}=\text{CHCH}_2\text{CH}_3$
11	0.89	CH_3

R: alkyl portion of the tryacylglycerides.

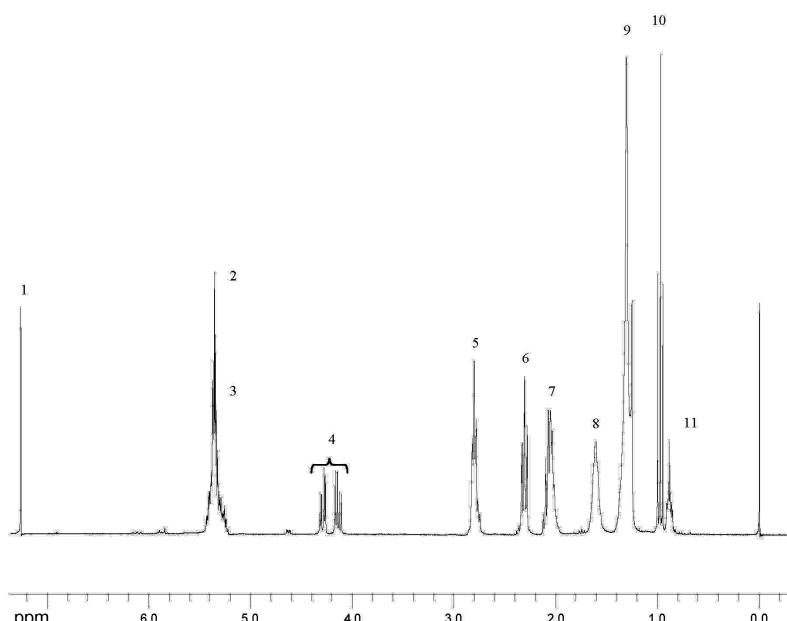


Figure S1. ^1H NMR spectrum (CDCl_3 , 300 MHz) of *M. fistulifera* oil.

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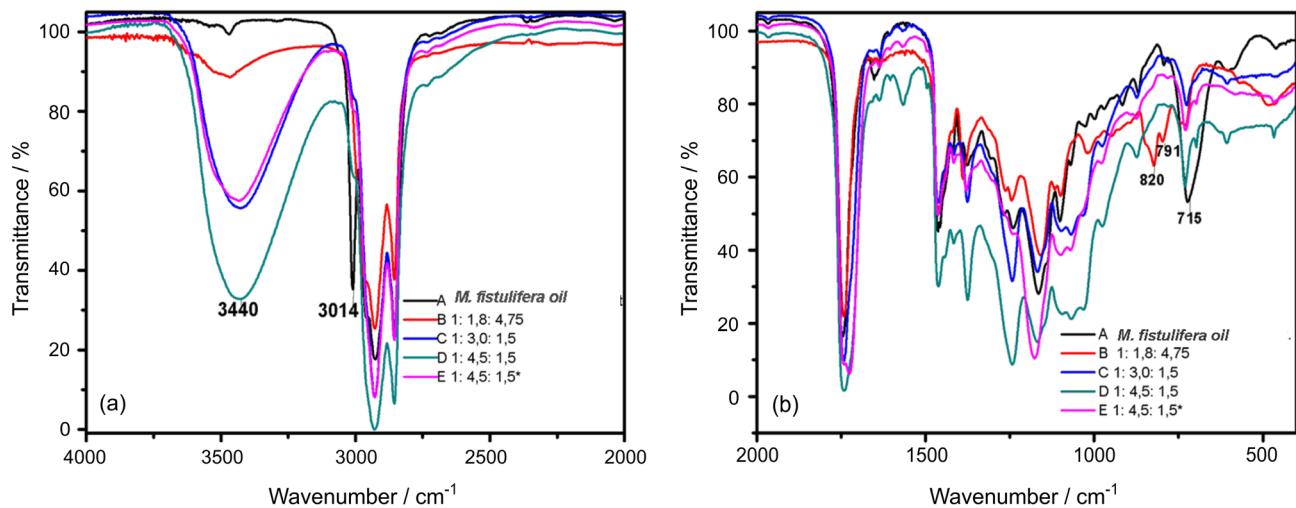


Figure S2. Spectra in the IR region: (a) 4000-2000 cm^{-1} , (b) 2000-500 cm^{-1} , for the reactions between *M. fistulifera* oil, acetic acid (or formic acid) and H_2O_2 at different molar ratios.

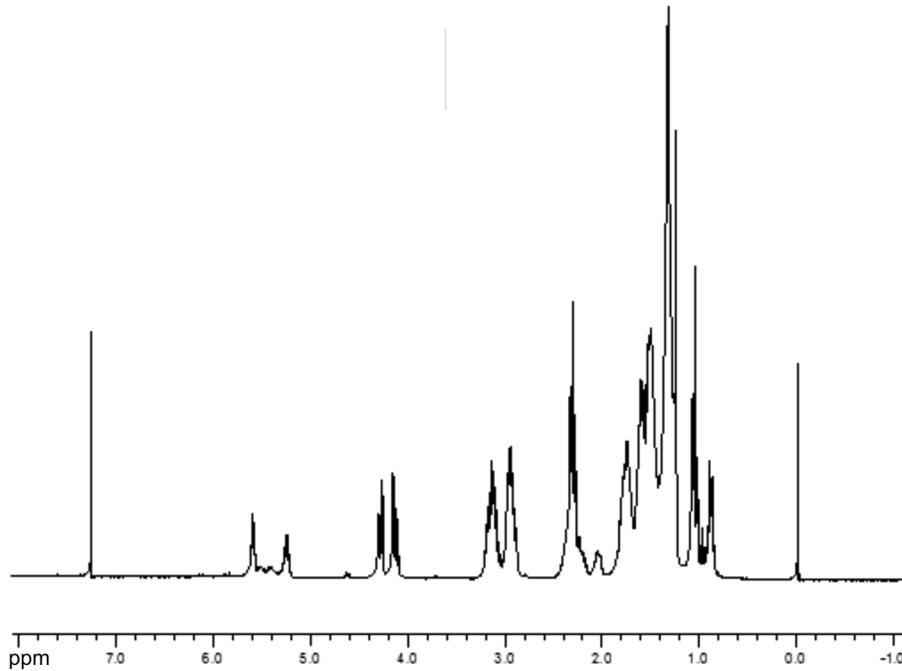


Figure S3. ${}^1\text{H}$ NMR spectra (CDCl_3 , 300 MHz) to epoxidized *M. fistulifera* oil (molar ratio of oil/acetic acid/ H_2O_2 of 1:1.8:4.75)

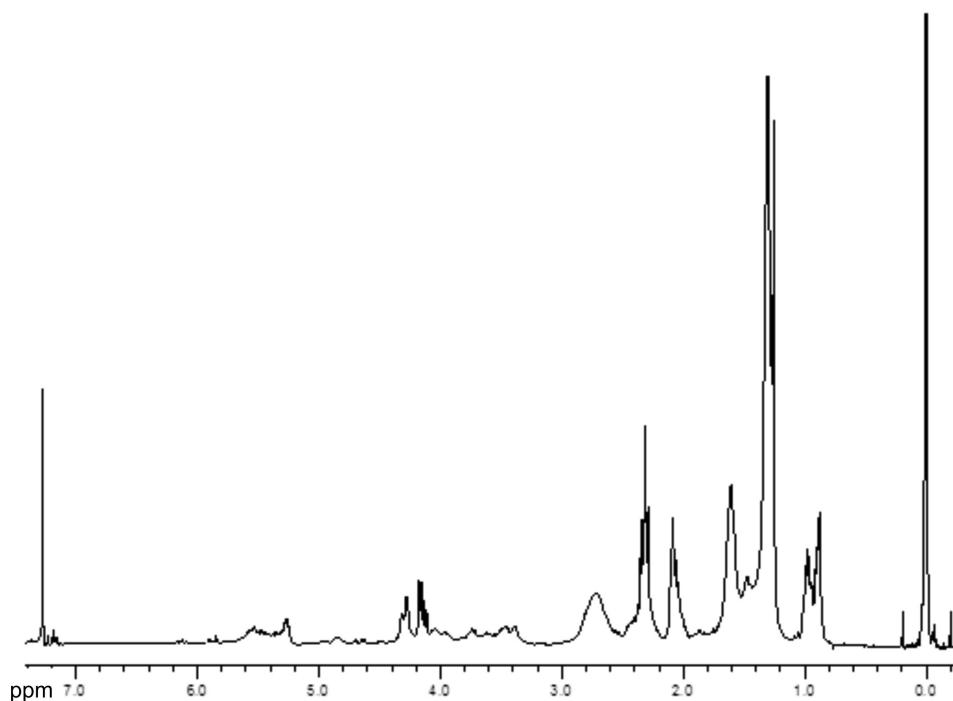


Figure S4. ¹H NMR spectra (CDCl₃, 300 MHz) to hydroxylated *M. fistulifera* oil (molar ratio of oil /acetic acid/H₂O₂ of 1:4.5:1.5).

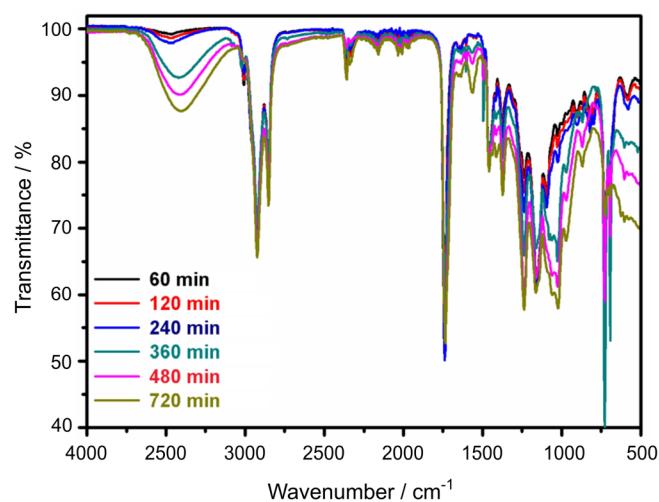


Figure S5. Infrared spectra (4000-500 cm⁻¹) of the products of the *in situ* hydroxylation reaction at different reaction times.