

Supplementary Materials: Synthesis, Performance and Emission Quality Assessment of Ecodiesel from Castor Oil in Diesel/Biofuel/Alcohol Triple Blends in a Diesel Engine

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Table S1. Viscosity and Selectivity values of Ecodiesel of Sunflower oil (EcoSO) and reaction products obtained at the same reaction conditions as in Table 2, after 60 min. The Conversion was also 100 %. Sel. = FAE + MG, being FAE = FAME + FAEE.

T (°C)	Sel. (%)	FAE (%)	MG (%)	DG (%)	Visc. (cSt)
20	85.6	71.6	14.0	14.4	13
30	69.3	59.3	10.0	30.7	11
40	62.5	52.1	10.4	37.5	12
50	54.0	42.8	11.2	46.0	13
60	57.8	39.5	18.3	42.2	13

Table S2. Viscosity values of different blends diesel/Ecodiesel from Castor oil (EcoCO).

Blend	EcoCO (v/v %)	Viscosity (cSt)
EcoCO 0	0	3.15
EcoCO 5	5	3.08
EcoCO 10	10	3.24
EcoCO 15	15	3.49
EcoCO 20	20	3.81
EcoCO 25	20	4.70
EcoCO 30	30	5.84

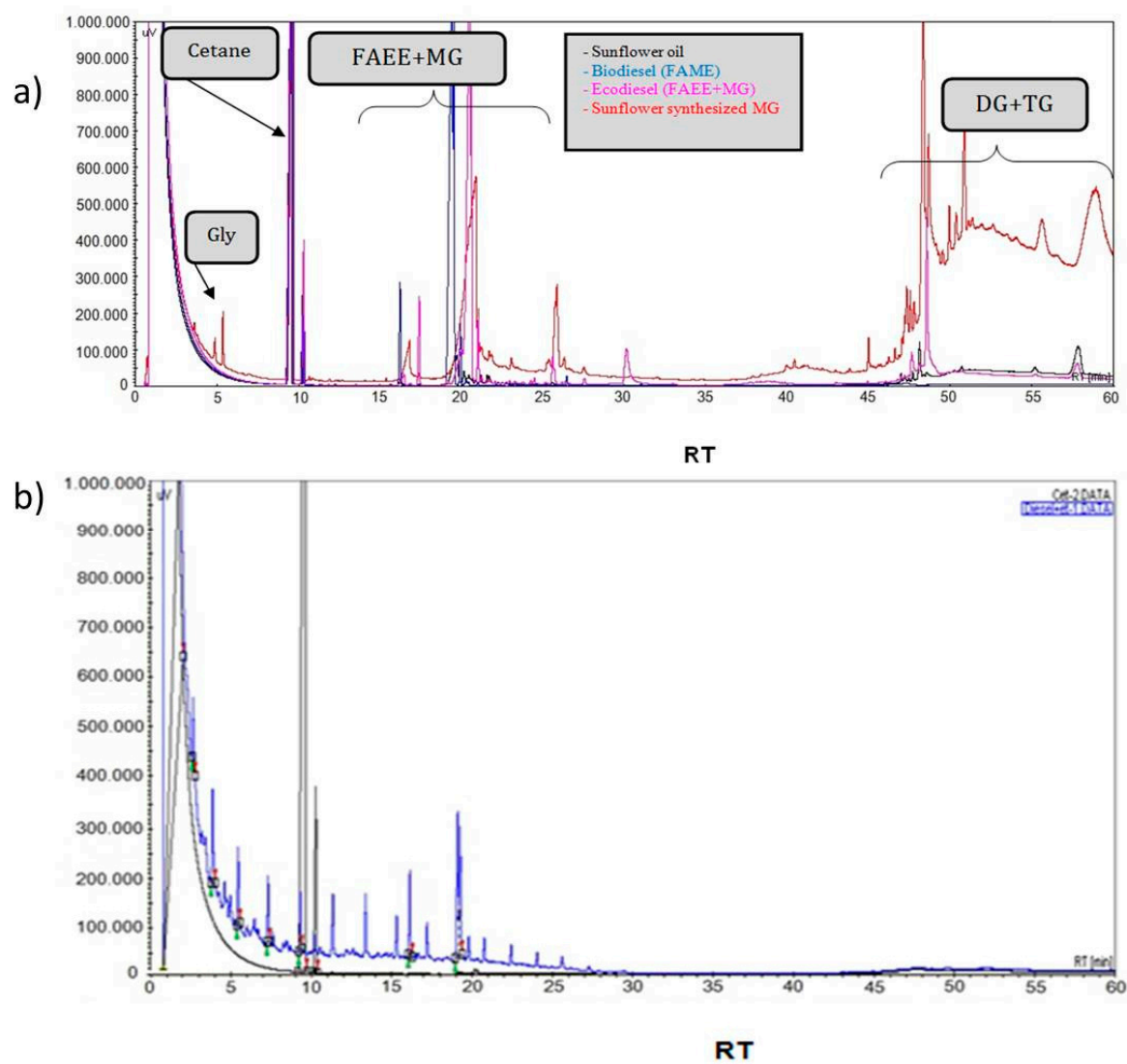


Figure S1. Chromatograms obtained in the sunflower oil alcoholysis (a). The initial sunflower oil is in black (a). Commercial diesel fuel chromatogram (b).