

Catalyst and Concentration		Density, <i>gmL<sup>-1</sup></i>	Calorific power, <i>Jg<sup>-1</sup></i>	Kinematic viscosity, <i>mm<sup>2</sup>s<sup>-1</sup></i>	Free acidity, <i>mgKOHg<sup>-1</sup></i>	FAMEs, %	Linolenic Acid (C18:3), %	Yield, %
NaOH, 0.5 %	E1	0.88007	39758	4.7594	0.2242	93.2771	2.5604	88.0317
	E2	0.87839	39741	4.6428	0.3363	93.7549	2.5474	83.8040
	E3	0.87920	39590	4.6849	0.3362	92.8658	2.5042	86.0534
NaOH, 1 %	E1	0.88010	39714	4.7283	0.2240	90.7550	2.4497	78.1405
	E2	0.88051	39834	4.6844	0.4485	93.0674	2.5632	79.1296
	E3	0.88005	39744	4.5816	0.4483	81.8495	2.3266	77.2635
KOH, 0.5 %	E1	0.88032	40142	4.6204	0.2802	92.1160	2.5419	94.9555
	E2	0.88195	39460	4.7736	0.4483	94.0299	2.5974	92.9773
	E3	0.87981	39576	4.6867	0.3364	93.1060	2.4757	91.6381
KOH, 1 %	E1	0.87934	39744	4.7018	0.3365	94.5221	2.5375	95.9446
	E2	0.87771	39725	4.7045	0.3355	96.0229	2.6392	93.9664
	E3	0.87965	39713	4.6181	0.5601	95.0250	2.6789	90.0099

Parámetro	Values		Df	Sum of squares	Mean of Squares	F	P value	
Density	Min.	0.8777	P.	3	6.342e-06	2.114e06	2.723	0.114
	Max.	0.8820						
	Mean	0.8798	R.	8	6.210e-06	87.763e07		
	STD	± 0.0011						
Calorific power	Min.	39460	P.	3	6908	2303	0.063	0.978
	Max.	40142						
	Mean	39748	R.	8	291705	36463		
	STD	±172.72						
Kinematic viscosity	Min.	4.582	P.	3	0.00201	0.000670	0.153	0.925
	Max.	4.774						
	Mean	4.682	R.	8	0.03494	0.004368		
	STD	± 0.0580						
Free acidity	Min.	0.2240	P.	3	0.01121	0.003737	0.46	0.718
	Max.	0.4485						
	Mean	0.3502	R.	8	0.06495	0.008119		
	STD	± 0.1198						
% FAMES	Min.	81.85	P.	3	71.27	23.757	2.584	0.126
	Max.	96.02						
	Mean	92.53	R.	8	73.56	9.195		
	STD	± 3.6286						
Yield	Min.	77.26	P.	3	465.8	155.26	35.98	5.42e-5
	Max.	95.94						
	Mean	87.66	R.	8	34.5	4.32		
	STD	± 6.7441						

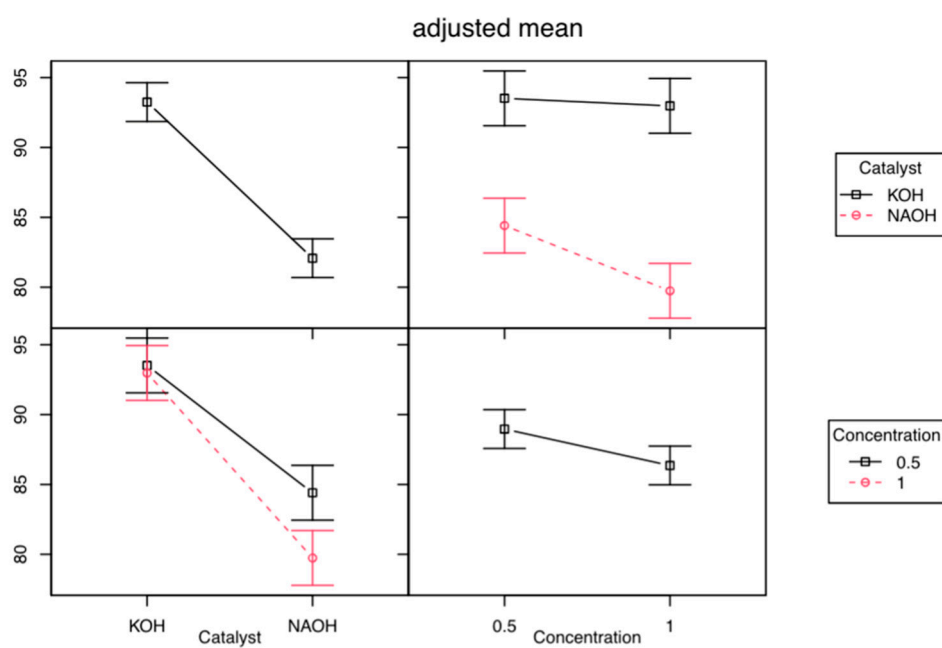


Figure S1: Plot of main effects and interactions for performance

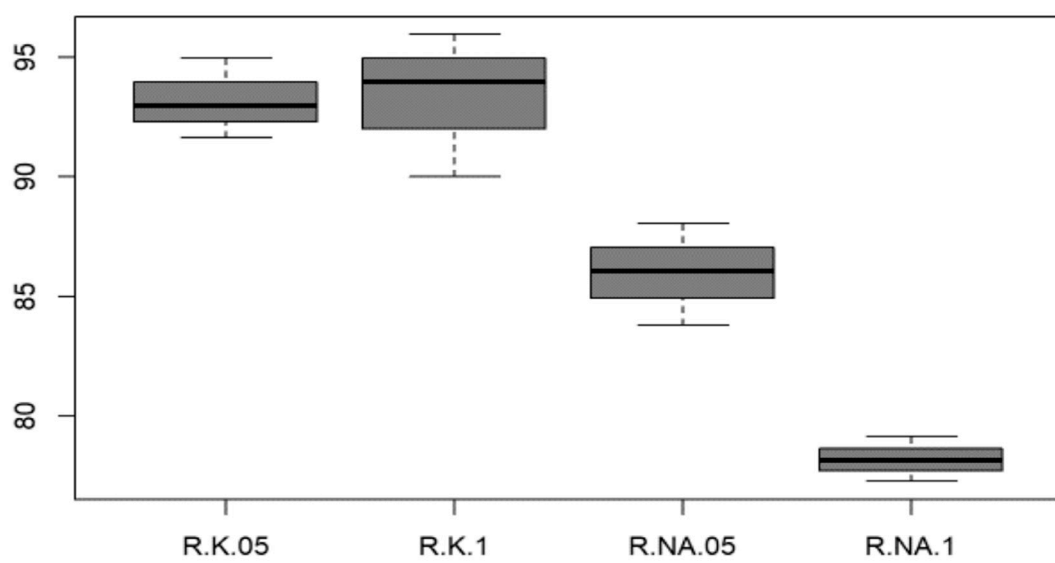


Figure S2: Boxplots