

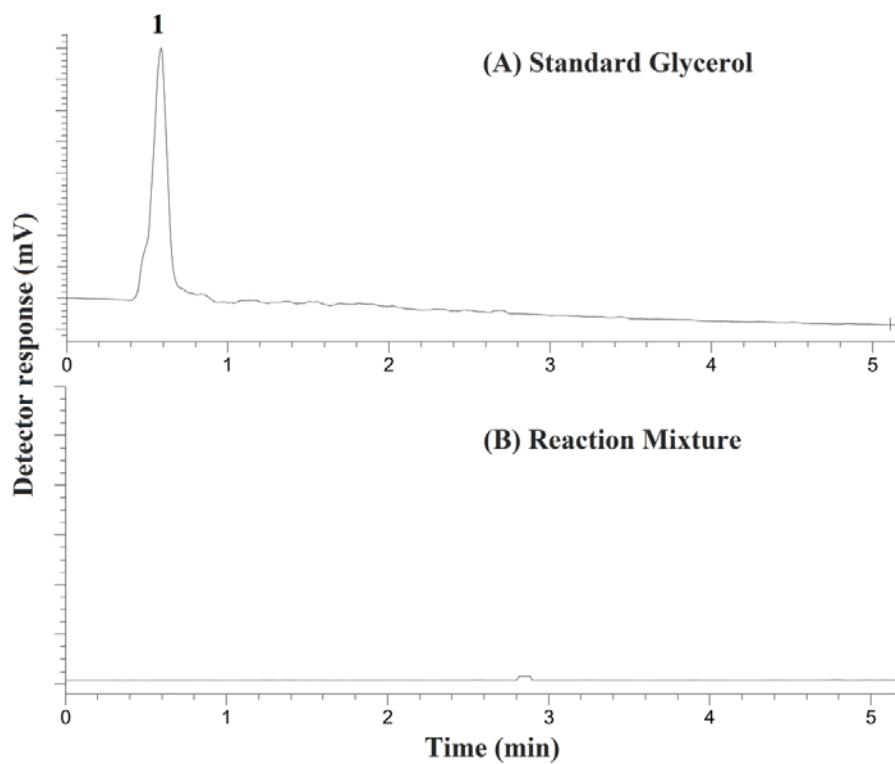
## Supplementary materials

**Table S1:** Intra-day and Inter-day analysis.

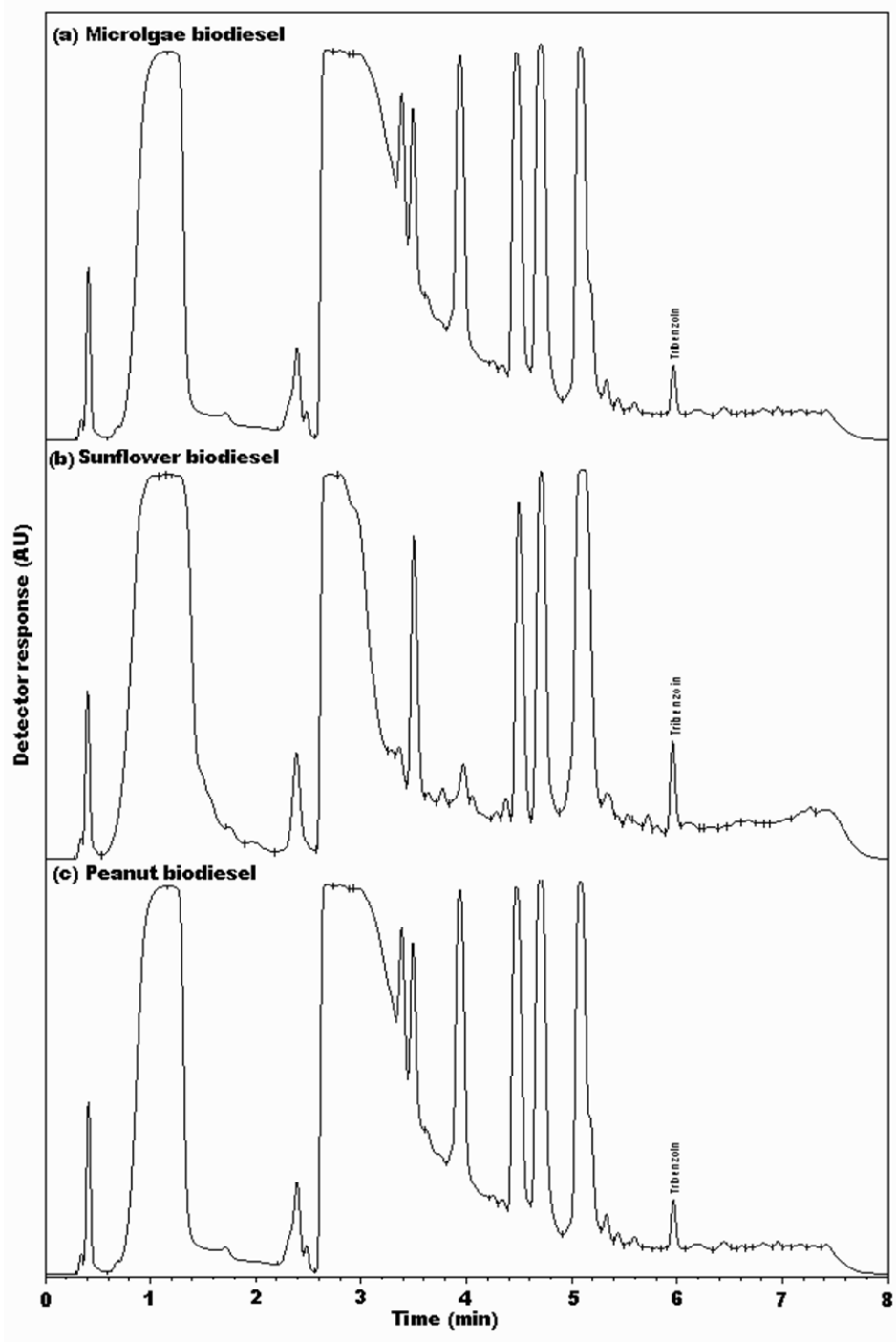
<b>Conc.</b> <b>(<math>\mu\text{g/mL}</math>)</b>	<b>DAY 1</b>			<b>DAY 2</b>		
	<b>Found</b> <b>(<math>\mu\text{g/mL}</math>)</b>	<b>R.S.D.</b> <b>(%)</b>	<b>Accuracy</b> <b>(%)</b>	<b>Found</b> <b>(<math>\mu\text{g/mL}</math>)</b>	<b>R.S.D.</b> <b>(%)</b>	<b>Accuracy</b> <b>(%)</b>
80.00	80.0 $\pm$ 0.3	0.39	100.04	80.2 $\pm$ 0.3	0.43	100.62
50.00	49.61 $\pm$ 0.03	0.06	99.22	49.62 $\pm$ 0.03	0.06	99.28
20.00	19.80 $\pm$ 0.00	0.01	99.01	19.80 $\pm$ 0.00	0.02	99.04

**Table S2:** Summary of the robustness parameters.

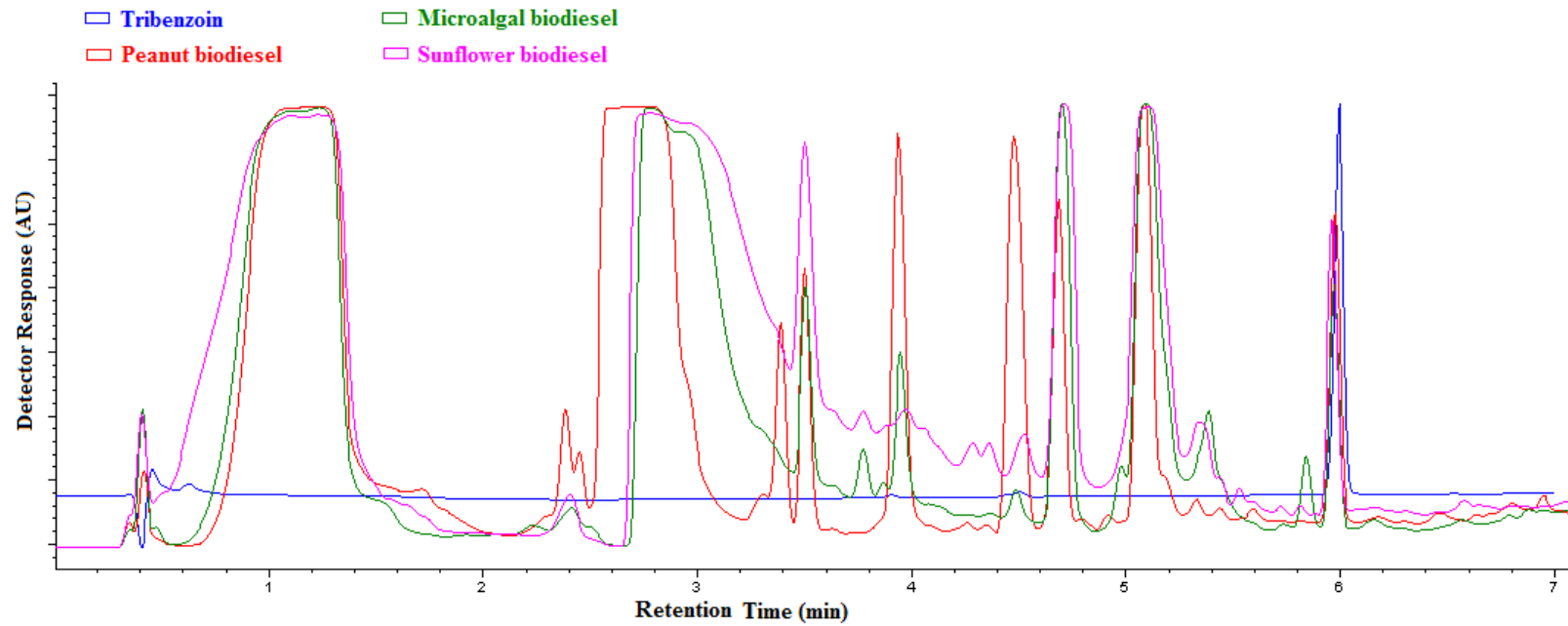
<b>Parameter</b>	<b>Modification</b>	<b>Standard deviation</b>	<b>CV (%)</b>
Mobile Phase Composition	10.5:89.5	0.5	2.01
	10:90		
	9.5:90.5		
Temperature	31.5	0.04	0.15
	30		
	28.5		
Wavelength	238	0.6	2.53
	239		
	240		
Flow rate	0.74	0.6	2.39
	0.70		
	0.67		



**Figure S1:** HPLC-ELSD Chromatogram of (A) Peak 1 standard glycerol at RT  $0.59 \pm 0.03$  (B) Reaction mixture



**Figure S2:**Chromatogram of microalgal (A), sunflower (B) and peanut (C) biodiesel sample, Peak 1  
GTB (RT:  $5.97 \pm 0.01$ )



**Figure S3:** Overlaid chromatograms of standard (blue), microalgal biodiesel (green), peanut biodiesels (red), and sunflower biodiesel (pink)