

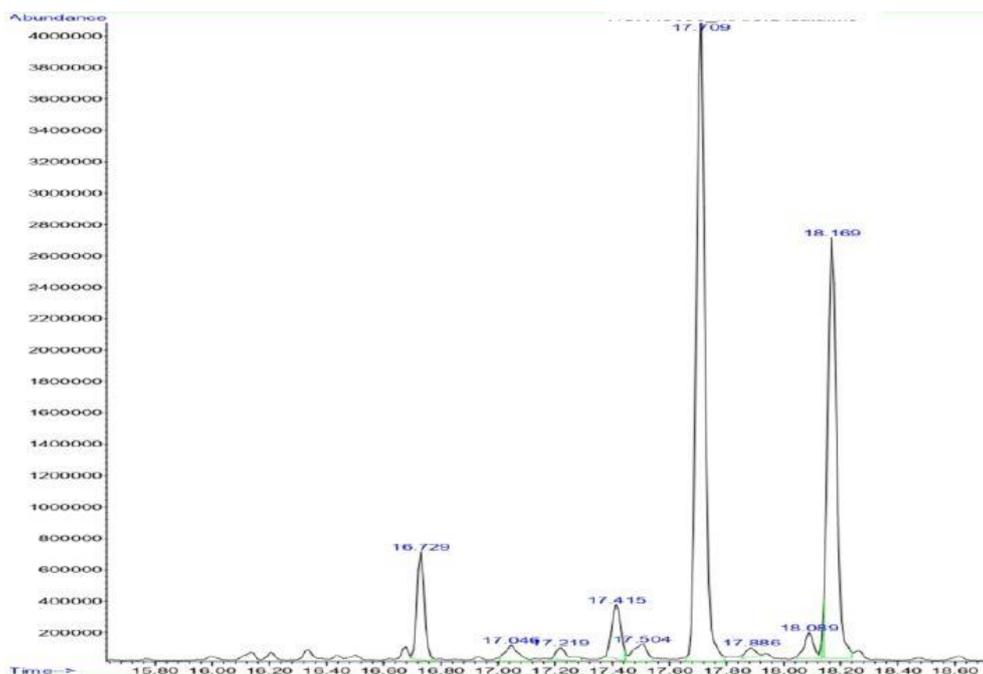
# From agrifood waste to PHAs through a sustainable process

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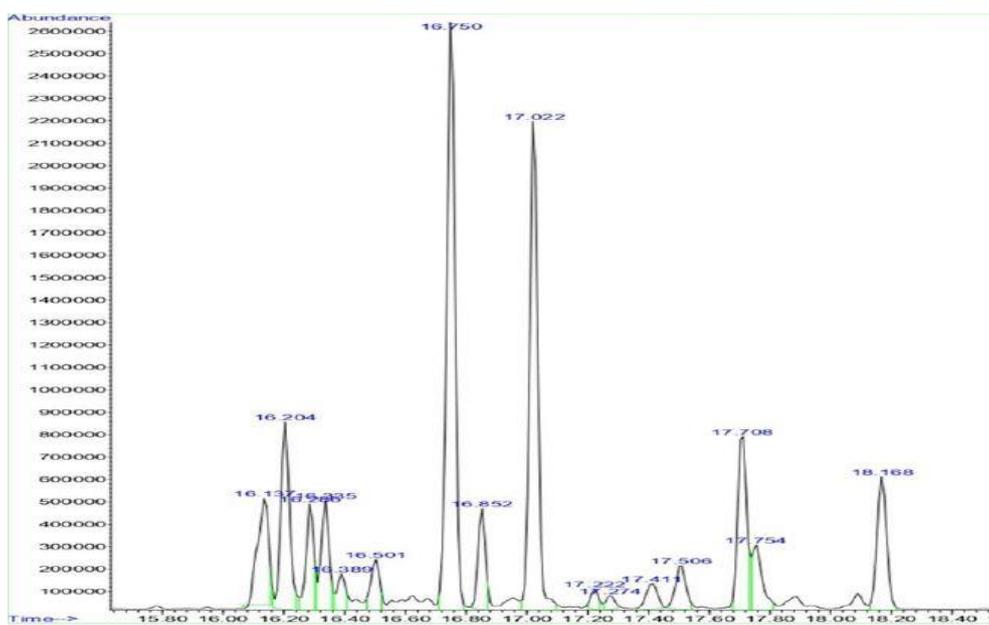
## Supporting information

**Table S1.** Khardenavis' fermentation medium composition.

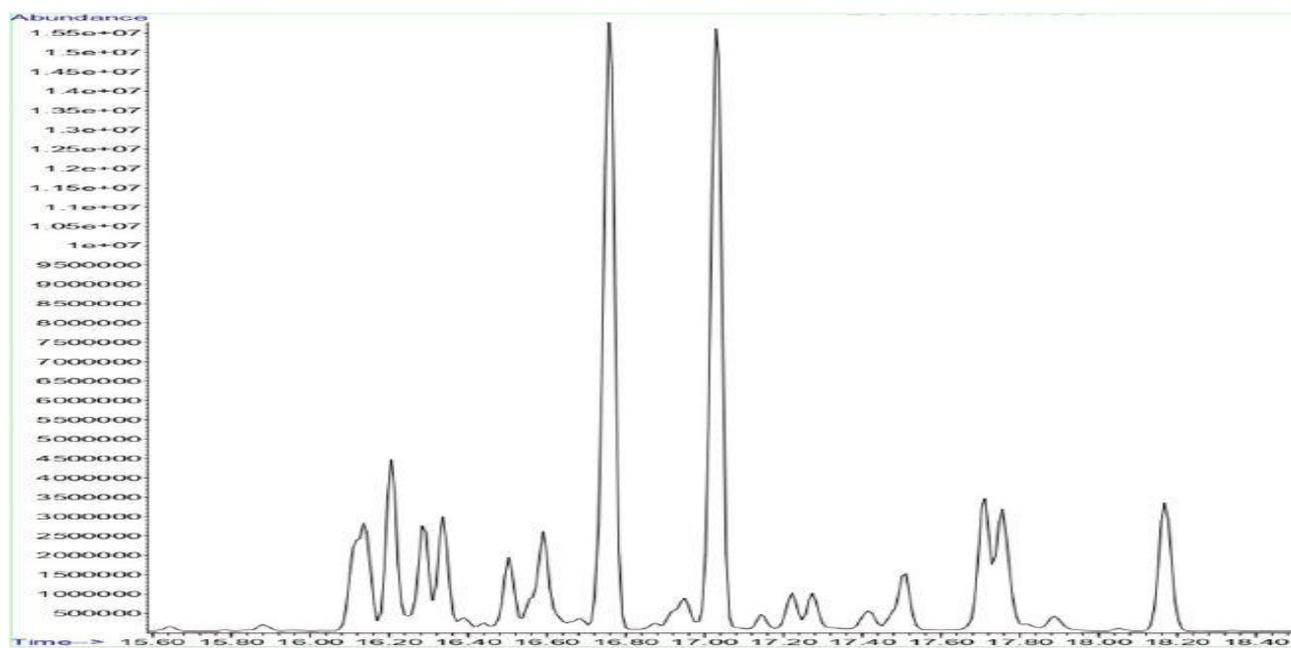
Compound	Concentration (g/L)
CH <sub>3</sub> COOH	20
(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	0.754
K <sub>2</sub> HPO <sub>4</sub>	1
MgSO <sub>4</sub> ·7H <sub>2</sub> O	0.4
Trace elements	1 mL/L
pH = 7	
C/N=50	C/P=22.6
<b>Trace elements composition</b>	
Compound	Concentration (g/L)
Na <sub>2</sub> SO <sub>4</sub>	25
FeSO <sub>4</sub> ·7H <sub>2</sub> O	25
MnSO <sub>4</sub> ·4H <sub>2</sub> O	4.06
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	4.40
CuSO <sub>4</sub> ·5H <sub>2</sub> O	0.79
CaCl <sub>2</sub> ·2H <sub>2</sub> O	73.4



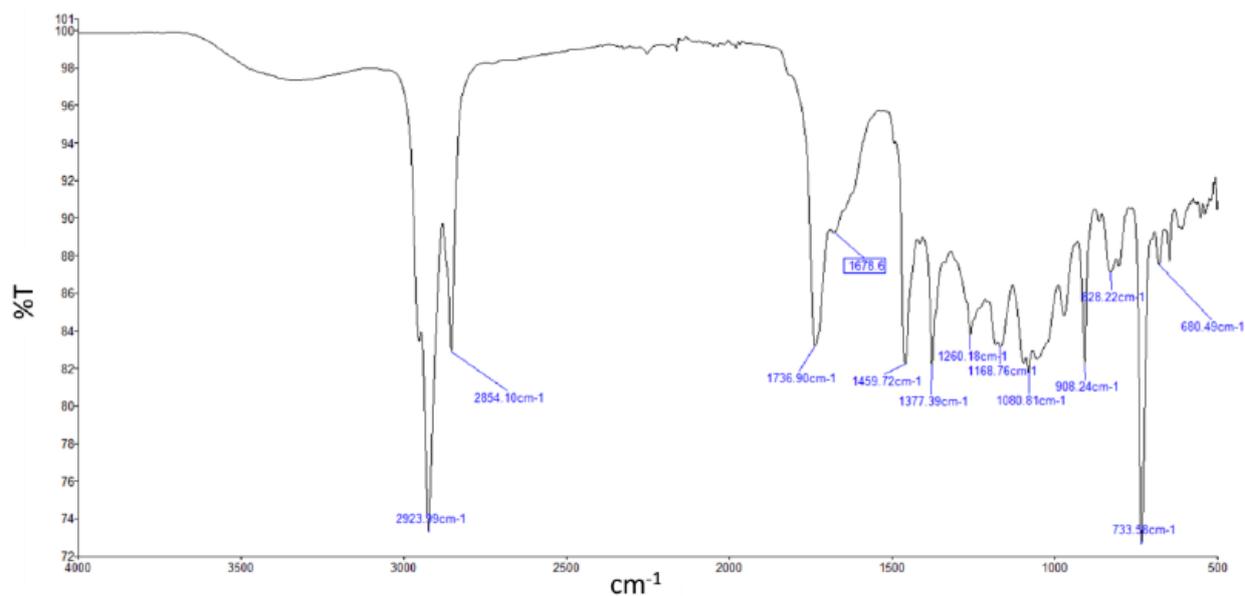
**Figure S1.** GC-MS chromatogram of the reaction performed at 200°C with 0.5 M HCl. (Rt=18.729, Levoglucosan)



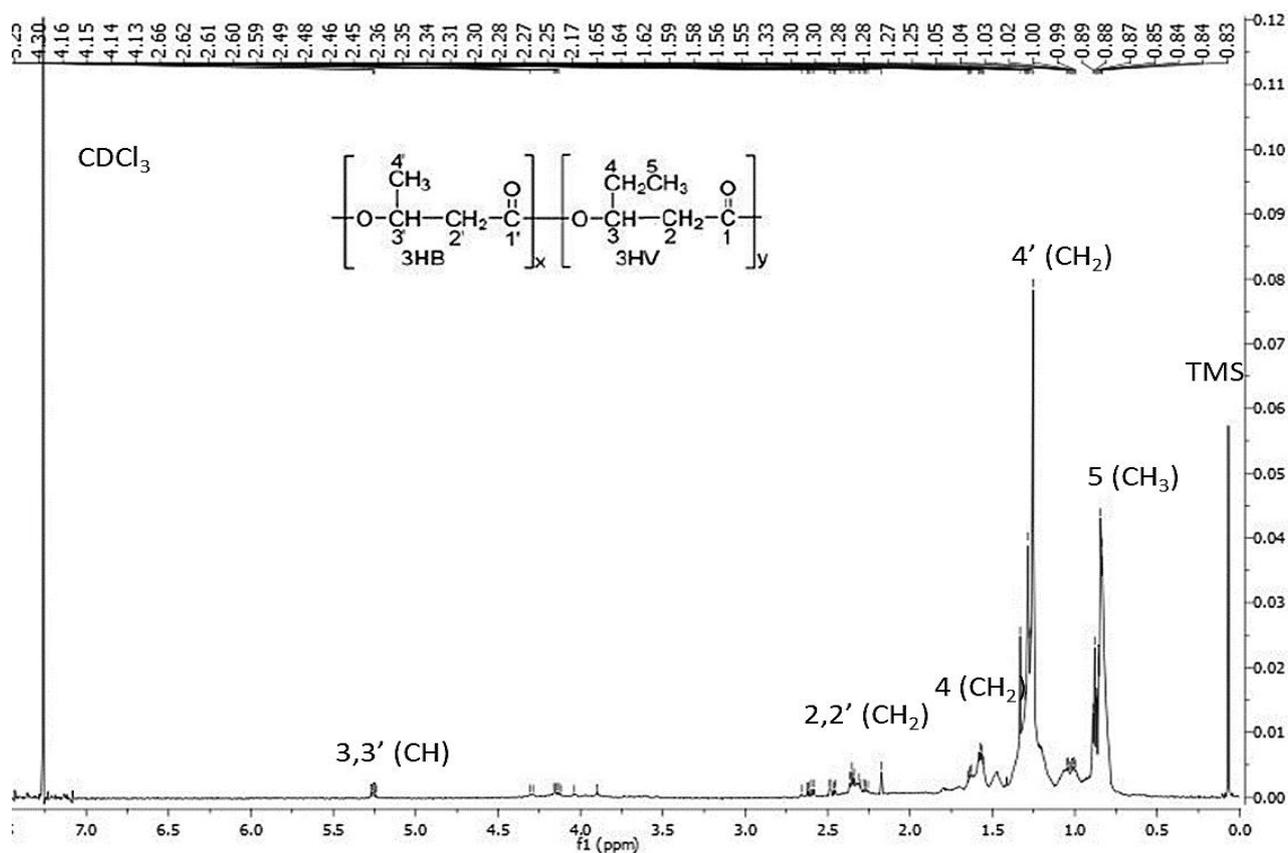
**Figure S2.** GC-MS chromatogram of the reaction performed at 150°C with 0.5 M HCl.



**Figure S3.** GC-MS chromatogram of the reaction performed at 200°C with 0.1 M HCl.



**Figure S4.** FT-IR of the PHA extracted after bioreactor fermentation



**Figure S5.** <sup>1</sup>H-NMR of of the PHA extracted after bioreactor fermentation