

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

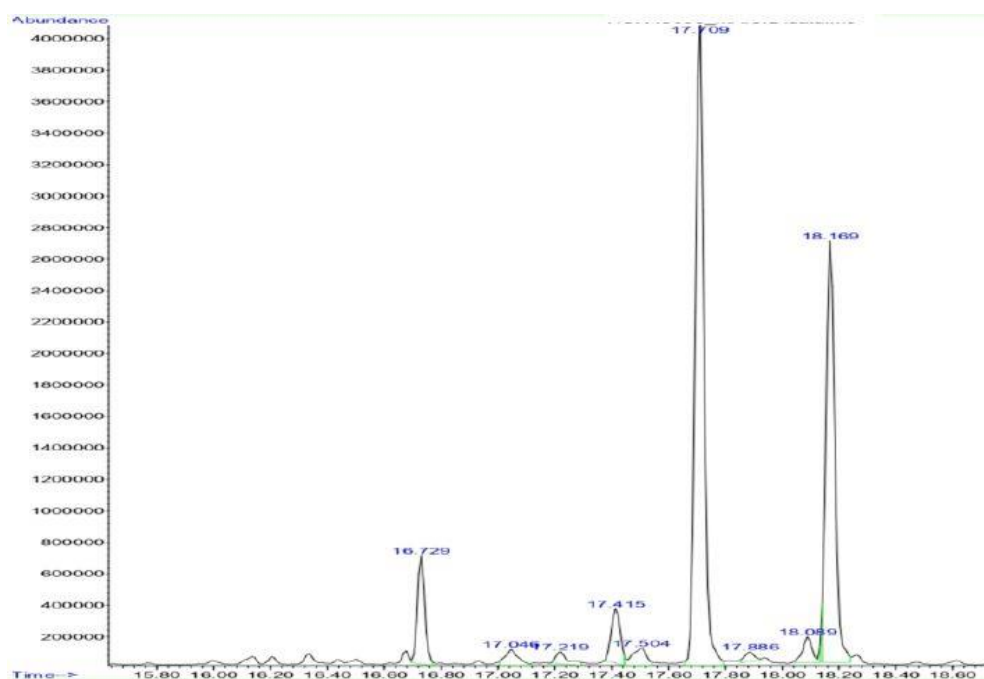


Figure S1. GC-MS chromatogram of the reaction performed at 200°C with 0.5 M HCl. (Rt=18.729, Levoglucosan)

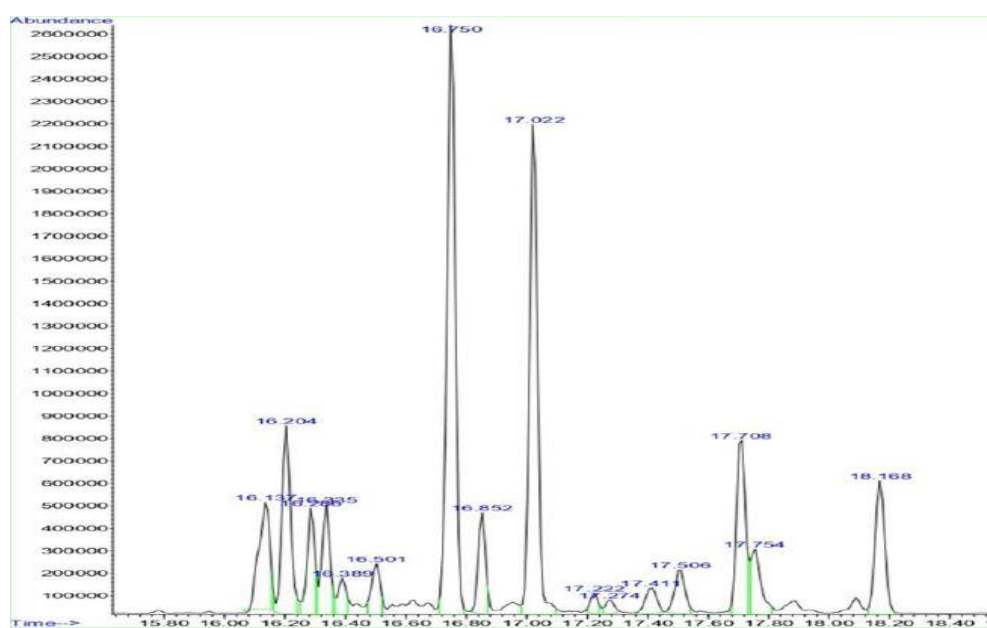


Figure S2. GC-MS chromatogram of the reaction performed at 150°C with 0.5 M HCl.

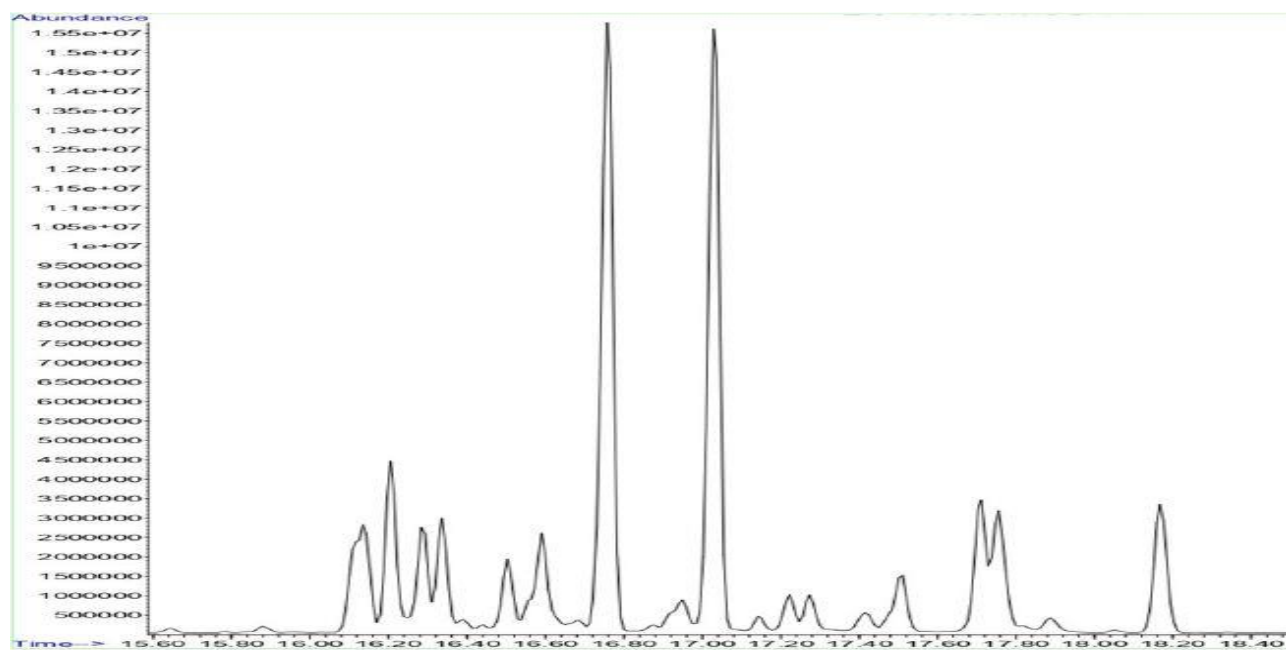


Figure S3. GC-MS chromatogram of the reaction performed at 200°C with 0.1 M HCl.

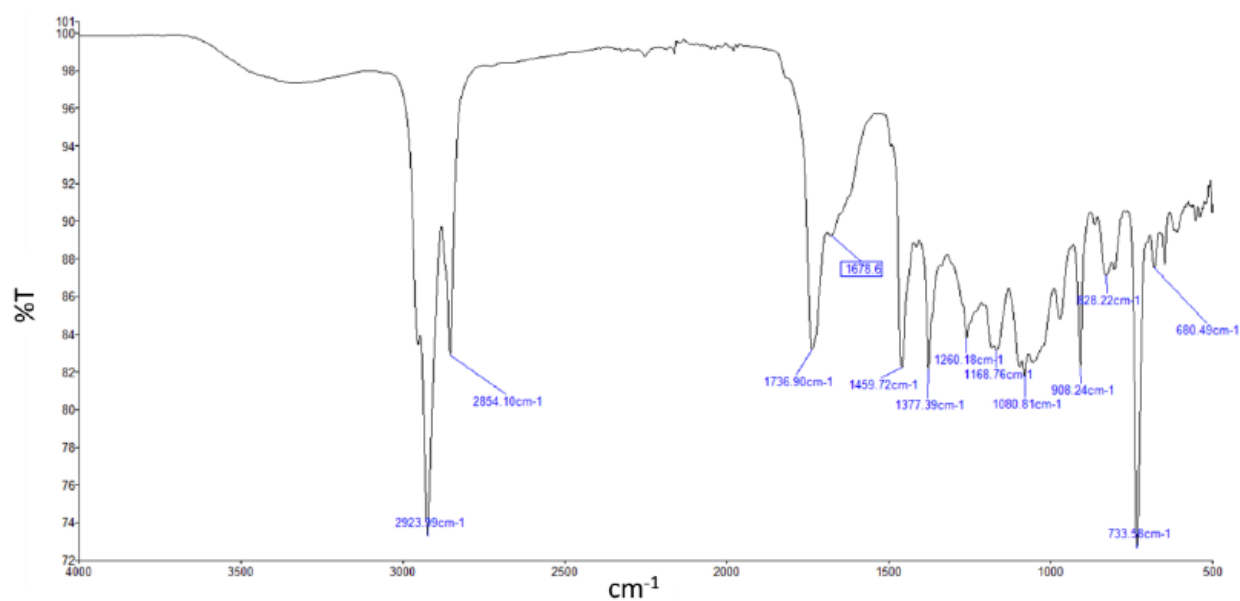


Figure S4. FT-IR of the PHA extracted after bioreactor fermentation

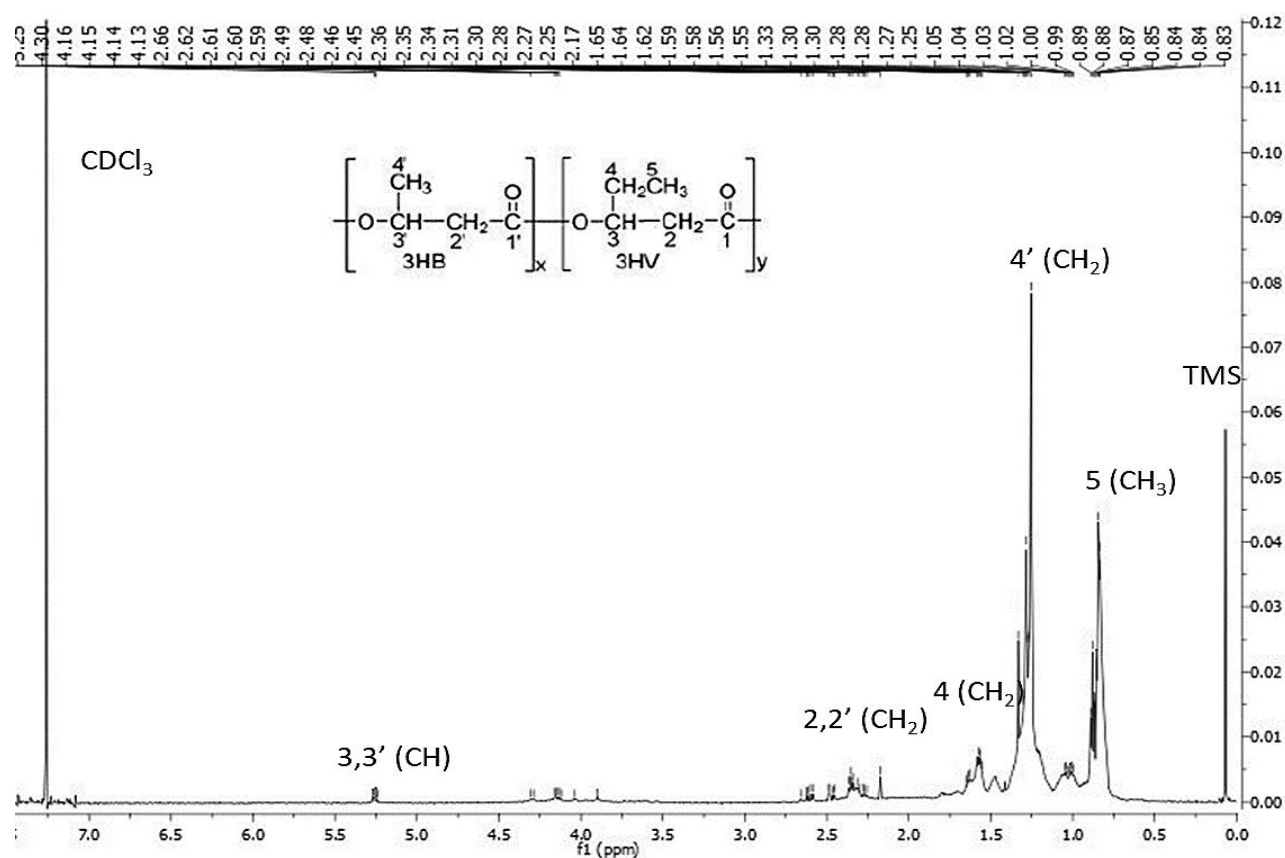


Figure S5. ^1H -NMR of of the PHA extracted after bioreactor fermentation