

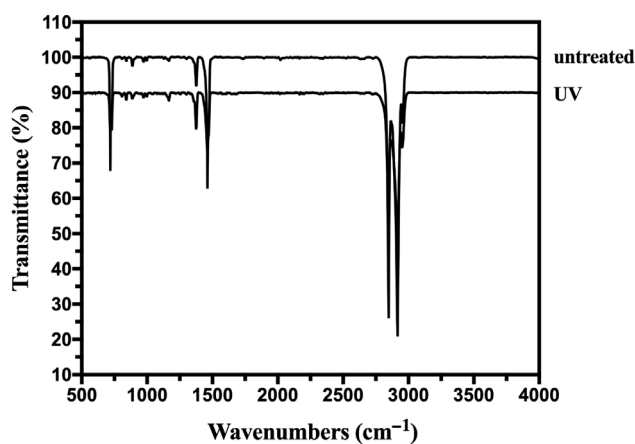
## Supplementary material

# A POLYPROPYLENE-DEGRADING *PSYCHROBACILLUS* STRAIN ISOLATED FROM A LANDFILL

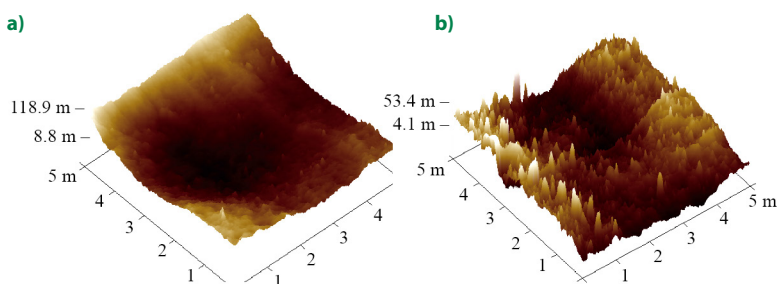
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Journal of Environmental Engineering and Landscape Management

<https://doi.org/10.3846/jjeelm.2024.20966>



**Figure S1.** FTIR of PP particles treated with or without UV



**Figure S2.** Physical topography of PP untreated: a) and treated with LICME-ZWZR-10 bacteria; b) by Atomic Force Microscopy (AFM)

**Table S1.** Enzymes degrading polyolefin plastics

Plastic	Enzyme	Origin	Similarity
PE	laccase	<i>Rhodococcus ruber</i>	27.43%
PE	manganese peroxidase	<i>Phanerodontia chrysosporium</i>	15.79%
PE	alkane hydroxylase	<i>Pseudomonas aeruginosa</i>	7.14%
PE	alkane monooxygenase	<i>Pseudomonas aeruginosa</i>	15.63%
PE	propionyl-CoA carboxylase	<i>Rhodococcus ruber</i>	9.77%
PS	lipase	<i>Pseudomonas aeruginosa</i>	11.83%
PS	alkane 1-monooxygenase	<i>Pseudomonas aeruginosa</i>	15.63%
PE/PS	cytochrome P450	<i>Pseudomonas aeruginosa</i>	8.94%