

**Table S1. Pollutant concentration:** List of the compounds detected in the contaminated soil, in which *Trichoderma lixii* MUT3171 was isolated. The concentration is expressed in mg/kg of dry soil. TPH: total petroleum hydrocarbons.

Pollutant	Concentration
2-metilnaphthalene	50.00
1-metilnaphthalene	28.26
naphthalene	62.81
acenaphtilene	0.44
acenaphthene	10.96
fluorene	11.83
phenanthrene	96.28
anthracene	6.67
fluoranthene	51.01
pyrene	32.91
benzo(a)anthracene	10.11
chrysene	5.97
benzo(b+j)fluoranthene	3.96
benzo(k)fluoranthene	1.50
benzo(a)pyrene	1.93
indeno[1,2,3-cd]pyrene	1.24
dibenzo(ac+ah)anthracene	0.32
benzo(ghi)perylene	1.02
dibenzo(al)pyrene	0.50
dibenzo(ae)pyrene	0.14
dibenzo(ai)pyrene	0.05
dibenzo(ah)pyrene	<0.01
TPHs	377.91

**Table S2. Strains used for comparison:** List of *Trichoderma* species used in the comparative analysis, with relative GenBank accessions and references.

Species	Accession	References
<i>Trichoderma guizhouense</i> NJAU 4742	GCA_002022785.1	[1]
<i>Trichoderma harzianum</i> CBS 226 95	GCA_003025095.1	[2]
<i>Trichoderma harzianum</i> TR274	GCA_002838845.1	[3]
<i>Trichoderma harzianum</i> T6776	GCA_000988865.1	[4]
<i>Trichoderma arundinaceum</i> IBT40837	GCA_003012105.1	[5]
<i>Trichoderma asperellum</i> CBS 433 97	GCA_003025105.1	[2]
<i>Trichoderma citrinoviride</i> TUCIM 6016	GCA_003025115.1	[2]
<i>Trichoderma gamsii</i> T6085	GCA_001481775.2	[2]
<i>Trichoderma longibrachiatum</i> ATCC 18648	GCA_003025155.1	[2]
<i>Trichoderma parareesei</i> CBS 125925	GCA_001050175.1	[6]
<i>Trichoderma reesei</i> QM6a	GCA_000167675.2	[7]
<i>Trichoderma virens</i> Gv29 8	GCA_000170995.2	[8]
<i>Trichoderma harzianum</i> TR1	GCA_002894145.1	[9]

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