

Isolation and Screening from Soil Biodiversity for Fungi Involved in the Degradation of Recalcitrant Materials

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Materials

Name	Company	Catalog Number	Comments
96 microwell plate	Greiner bio-one	650185	
Agar	VWR	84609.05	
Bushnell-Haas Broth	Fluka	B5051	
CaCl ₂	Sigma-Aldrich	C5670	
Chloroamphenicol	Eurobio	GABCRL006Z	
Chlortetracycline	Sigma-Aldrich	Y0001451	
CoCl ₂ ·6H ₂ O	Sigma-Aldrich	C8661	
CuCl ₂ ·2H ₂ O	Sigma-Aldrich	C3279	
Ethanol	VWR Chemicals	20821.296	
FeCl ₃ ·6H ₂ O	Sigma-Aldrich	236489	
Filter 0.2 μm	Whatman	10462200	
gallic acid	Sigma-Aldrich	G7384	
Glass cover slips	Biosigma	VBS634	
Glass vials 15 mL	SciLabware	P35467	
guaiacol	Sigma-Aldrich	G5502	
High-density polyethylene (HDPE)	Sigma-Aldrich	434272	
Humic acids	Aldrich Chemistry	53680	
K ₂ HPO ₄	Sigma-Aldrich	P8281	
KH ₂ PO ₄	Sigma-Aldrich	P5655	
Lignocellulose	/	/	Sterilized bioethanol production waste
L-shaped cell spreader	Laboindustria S.p.a	21133	
magnetic stirrer	A.C.E.F	8235	
Malt Extract Broth	Sigma-Aldrich	70146	
MgSO ₄ ·7H ₂ O	Sigma-Aldrich	M2643	
Micropipette 1000 μL	Gilson	FA10006M	
Micropipette 200 μL	Gilson	FA10005M	

MnCl ₂ ·4H ₂ O	Sigma-Aldrich	M5005	
Na ₂ MoO ₄ ·2H ₂ O	Sigma-Aldrich	M1651	
NaCl	Sigma-Aldrich	S5886	
Neomycin	Sigma-Aldrich	N0401000	
Penicillin	Sigma-Aldrich	1504489	
peptone	Sigma-Aldrich	83059	
Polyethylene terephthalate (PET)	Goodfellow	ES306031	
Petri dishes	Laboindustria S.p.a	21050	
Petrolatum (Paraffin liquid)	A.C.E.F	009661	
Potato Dextrose Broth	Sigma-Aldrich	P6685	
Polystyrene (PS)	Sigma-Aldrich	331651	
Polyurethane (PUR)	Sigma-Aldrich	GF20677923	
Polyvinyl chloride (PVC)	Sigma-Aldrich	81388	
Sterile falcon tube	Greiner bio-one	227 261	
Sterile glass vials 20 mL	Sigma-Aldrich	SU860051	
Sterile point 1000 μL	Gilson	F172511	
Sterile point 200 μL	Gilson	F172311	
Sterile polyethylene bags	WHIRL-PAK	B01018	
sterile syringe	Rays	5523CM25	
Streptomycin	Sigma-Aldrich	S-6501	
Tween 80	Sigma-Aldrich	P1754	
Used engine oil	/	/	complex mixture of hydrocarbons, engine additives, and metals, provided by an Italian private company
Vials 50 mL	Sigma-Aldrich	33108-U	
ZnCl ₂	Sigma-Aldrich	Z0152	