

Materials List for:

Determination of Microbial Extracellular Enzyme Activity in Waters, Soils, and Sediments using High Throughput Microplate Assays

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Materials

Name	Company	Catalog Number	Comments
REAGENTS AND MATERIALS			
Glacial acetic acid			Various suppliers
Sodium acetate			Various suppliers
Sodium hydroxide			Various suppliers
<i>p</i> -Nitrophenol	Fisher	BP612-1	Alternates available
<i>p</i> -Nitrophenyl (<i>p</i> NP)-phosphate	Sigma	N3234	<i>p</i> NP-substrate
<i>p</i> NP- β -glucopyranoside	Sigma	N7006	<i>p</i> NP-substrate
<i>p</i> NP- β - <i>N</i> -acetylglucosaminide	Sigma	N9376	<i>p</i> NP-substrate
Clear 96-well microplates	Fisher	12-563-301	Alternates available
96-well deep well blocks	Costar	3958	Alternates available
Aluminum weigh pans			Various suppliers
Sterile 15 ml centrifuge tubes			Various suppliers
Sterile 50 ml centrifuge tubes			Various suppliers
4-Methylumbelliferone	Sigma	M1381	
4-Methylumbelliferyl (MUB)-phosphate	Sigma	M8883	MUB-substrate
4-MUB-glucopyranoside	Sigma	M3633	MUB-substrate
4-MUB- <i>N</i> -acetylglucosaminide	Sigma	M2133	MUB-substrate
Sodium bicarbonate			Various suppliers
Black 96-well microplate	Costar	3792	
Pipette reservoir			Various suppliers
EQUIPMENT			
Centrifuge	Eppendorf	5810R	
Centrifuge rotor	Eppendorf	A-4-81	For microplates/deep-well blocks
Microplate reader	BioTek	Synergy HT	Alternates available
Microplate fluorometer	BioTek	FLx 800	Alternates available
8-channel pipettor			Various suppliers