

Materials List for:

Utilizing the Ethylene-releasing Compound, 2-Chloroethylphosphonic Acid, as a Tool to Study Ethylene Response in Bacteria

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Materials

Name	Company	Catalog Number	Comments
1-aminocyclopropane carboxylic acid (ACC)	Sigma	A3903	Biosynthetic precursor of ethylene in plants
4-sector Petri dish	Phoenix Biomedical	CA73370-022	For testing triple response
Agar	BioShop	AGR001.1	To solidify medium
Canon Rebel T1i DLSR camera	Canon	3818B004	For pictures of pellicles
Cellulase from <i>Trichoderma reesei</i> ATCC 26921	Sigma	C2730	Aqueous solution
Citric acid	BioShop	CIT002.500	For SH medium
Commercial bleach	Life Brand	57800861874	Bleach for seed sterilization
Concentrated HCl	BioShop	HCL666.500	Hydrochloric acid for pH adjustment
Digital USB microscope	Plugable	N/A	For pictures of colonies
Ethephon (≥96%; 2-chloroethylphosphonic acid)	Sigma	C0143	Ethylene-releasing compound
Glucose	BioBasic	GB0219	For SH medium
<i>Komagataeibacter xylinus</i> ATCC 53582	ATCC	53582	Bacterial cellulose-producing alphaproteobacterium
Microcentrifuge tube	LifeGene	LMCT1.7B	1.7 ml microcentrifuge tube
Murashige and Skoog (MS) basal medium	Sigma	M5519	<i>Arabidopsis thaliana</i> growth medium
Na ₂ HPO ₄ ·7H ₂ O	BioShop	SPD579.500	Sodium phosphate, dibasic heptahydrate for SH medium
NaCl	BioBasic	SOD001.1	Sodium chloride for saline and control solution
NaH ₂ PO ₄ ·H ₂ O	BioShop	SPM306.500	Sodium phosphate, monobasic monohydrate for control solution
NaOH	BioShop	SHY700.500	Sodium hydroxide for pH adjustment
Paraffin film	Parafilm	PM996	For sealing plates and flasks
Peptone (bacteriological)	BioShop	PEP403.1	For SH medium
Petroff-Hausser counting chamber	Hausser scientific	3900	Bacterial cell counting chamber
Polyethersulfone sterilization filter 0.2 µm	VWR	28145-501	For sterilizing cellulase
Sucrose	BioShop	SUC600.1	Sucrose for MS medium
Yeast extract	BioBasic	G0961	For SH medium