

Materials List for:

Detached Leaf Assays to Simplify Gene Expression Studies in Potato During Infestation by Chewing Insect Manduca Sexta

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Materials

Name	Company	Catalog Number	Comments
agar substitute	PhytoTechnology Laboratories	G3251	product is Gelzan
containment vessel (6,12 or 24 well dish)	Fisher Scientific	08-772-49, 08-772-50, 08-72-51	many other companies sell these products
manduca eggs	Carolina Biological Supply Company	143880	30-50 eggs
manduca eggs	Great Lakes Hornworm	NA	50, 100, 250 or 500 eggs
manduca larvae	Carolina Biological Supply Company	call for specific larval instar requests	any instar
manduca larvae	Great Lakes Hornworm	call for specific larval instar requests	any instar
microcentrifuge tubes, 1.7 ml	Thomas Scientific	1158R22	these have been tested in liquid N2 and will not explode
Murashige & Skoog (MS) Basal Medium w/Vitamins	PhytoTechnology Laboratories	M519	used to make propagation medium
nutrient agar mix	PhytoTechnology Laboratories	M5825	product is Murashige & Skoog Basal Medium with vitamins, sucrose, and Gelzan
paper filter discs	Fisher Scientific	09-805A	Whatman circles-purchase to fit in petri dish
petri dish, 60X15 mm or 100X15 mm	Fisher Scientific	FB0875713A or FB0875712	purchase size appropriate for leaf size
potato tubers	any	B size (not organic)	suggest Maine Farmer's Exchange
pots, 10"	Griffin Greenhouse Supplies, Inc.	41PT1000CN2	
preservative/biocide	Plant Cell Technology	NA	product is PPM (Plant Preservative Mixture)
seed potatoes for explant source	any	B size (not organic)	suggest Maine Farmer's Exchange
slow release fertilizer (14-14-14)	any	NA	Osmocote is a popular brand name
soft touch forceps	BioQuip	4750	
soil mix	Griffin Greenhouse Supplies, Inc.	65-51121	product is Sunshine LC1 mix
sterile culture vessel	PhytoTechnology Laboratories	C2100	Magenta-type vessel, PTL-100
sterile culture vessel	Fisher Scientific	ICN2672206	product is MP Biomedicals Plantcon