

Materials List for

A Contrast of Three Inoculation Techniques used to Determine the Race of Unknown *Fusarium oxysporum* f.sp. *niveum* Isolates

James C. Fulton^{*1}, Matthew

A. Cullen^{*1}, Kristin Beckham¹, Tatiana Sanchez², Zhuxuan Xu¹, Preston Stern¹, Gary Vallad³, Geoffrey Meru^{4,5}, Cecilia McGregor⁶, Nicholas S. Dufault¹

¹Department of Plant Pathology, University of Florida ²University of Florida Institute of Food and Agricultural Sciences ³Gulf Coast Research and Education Center, University of Florida ⁴Horticultural Sciences Department, University of Florida ⁵Tropical Research and Education Center, University of Florida ⁶Department of Horticulture, University of Georgia

*These authors contributed equally

Corresponding Author

Nicholas S. Dufault
nsdufault@ufl.edu

Citation

Fulton, J.C., Cullen, M.A., Beckham, K., Sanchez, T., Xu, Z., Stern, P., Vallad, G., Meru, G., McGregor, C., Dufault, N.S. A Contrast of Three Inoculation Techniques used to Determine the Race of Unknown *Fusarium oxysporum* f.sp. *niveum* Isolates. *J. Vis. Exp.* (176), e63181, doi:10.3791/63181 (2021).

Date Published

October 28, 2021

DOI

10.3791/63181

URL

jove.com/video/63181

Materials

Name	Company	Catalog Number	Comments
100% Fuller's Earth	Sigma-Aldrich	F200-5KG	
1 L glass Erlenmeyer Flask	PYREX	4980-1L	
15 mL falcon tubes	Fisher Scientific	14-959-49B	
50 mL graduated cylinder	Lab Safety Supply	41121805	
50 mL Eppendorf Conical Tubes	Fisher Scientific	05-413-921	
Aluminum foil wrap	Reynolds Wrap	720	
Bleach	Walmart	587192290	
Bunsen burner	Fisher Scientific	03-391-301	
CaCO ₃	sigma-Aldrich	239216	
cell spreaders	Fisher Scientific	08-100-11	
Cheesecloth	Lions Services, Inc	8305-01-125-0725	
Clear plastic dishes	Visions Wave	999RP6CLSS	~15 cm diameter
Clear vinyl tubing for mushroom bag clamps	Shroom Supply		6" for small bag, 8" for medium bag, 10" for large bag
Cotton Balls	Fisherbrand	22-456-885	Sterile
Ethanol	Fisher Chemical	A4094	100%, then combine with water to make 70% for use
Flourescent Tube Lights	MaxLume	Model T5	2800 K Color Temperature, 24" or 48" long
granulated agar	VWR International	90000-786	
Hand-held Spray Bottle	Ability One	24122002	~0.95 L

hemacytometer	Fisher Scientific	02-671-55A	Two chamber hemacytometer
Lab trays	Fisher Scientific	15-236-2A	
Large, sealable plastic bags	Ziploc	430805	38 cm x 38 cm
Mister / watering can	Bar5F	B10H22	
Mushroom Bag Clamp	Shroom Supply		6" for small bag, 8" for medium bag, 10" for large bag
Nitrile Gloves	Fisher Scientific	19-130-1597D	
Organic Rye Berries	Shroom Supply		0.5 gallon or 25 lb bags
P1000 pipette and tips	Fisher Scientific	14-388-100	
Petri dishes	Fisherbrand	FB0875713	Round, 100 mm diameter, 15 mm height
Planting media	Jolly Gardener	Pro-Line C/B	
Plastic Pitcher	BrandTech	UX0600850	1 L or larger
Plastic planting pots	Neo/SCI	01-1177	~15 cm diameter and ~10 cm height
Plastic, autoclave-safe bin	Thermo Scientific	UX0601022	3 L
Quarter-strength potato dextrose agar media	Cole-Parmer	UX1420028	Use powder in combination with recipe for QPDA
Scientific Balance Scale, measuring in g	Ohaus	30208458	Any precise scale that can hold and measure 200g will work
Size #4 cork bore	Cole-Parmer	NC9585352	
Small Mushroom grow bag	Shroom Supply		0.5 micron filter, also comes in medium and large sizes
Soil trowel	Walmart	563876946	
Styrofoam flats (6 x 12 cells)	Speedling	Model TR72A	
Styrofoam flats (8 x 16 cells)	Speedling	Model TR128A	
Syringe (5 or 10 mL)	fisher Scientific	14-829-19C	
Timer	Walmart	TM-01	
V8 Original 100% Vegetable Juice	Walmart	564638212	
vortex	Fisher Scientific	02-215-418	
Watermelon Seed - Black Diamond	Willhite Seed Inc	17	
Watermelon Seed - Calhoun Gray	Holmes Seed Company	4440	
Watermelon Seed - Charleston Gray	Bonnie Plants	7.15339E+11	
Watermelon Seed - PI 296341-FR	Contact authors	Contact authors	
Wheat Kernels (Maxie var.) (optional)	Alachua County Feed & Seed		