

Materials List for:

***Colletotrichum fioriniae* Development in Water and Chloroform-based Blueberry and Cranberry Floral Extracts**

Timothy J. Waller¹, Joshua D. Gager¹, Peter V. Oudemans¹

¹Department of Plant Biology, P. E. Marucci Center for Blueberry and Cranberry Research and Extension, Rutgers University

Correspondence to: Peter V. Oudemans at oudemans@aesop.rutgers.edu

URL: <https://www.jove.com/video/58880>

DOI: [doi:10.3791/58880](https://doi.org/10.3791/58880)

Materials

Name	Company	Catalog Number	Comments
0.22 µm pore size, acetate sterilizing filter	VWR	101102-280	Blueberry floral extract (FE) clarification
200-1000 µl pipette with tips	-	-	Equipment, any make within range will be adequate
40-200 µl pipette with tips	-	-	Equipment, any make within range will be adequate
5-40 µl pipette with tips	-	-	Equipment, any make within range will be adequate
Air spray gun disposable paint spray cup with connection adapter	Harbor Freight	97098	Blueberry rainwater (rw-)FE collection
Autoclave	Amsco	3011	Equipment, media preparation
Bar mesh matting (plastic mesh sheet)	Winco	BL-240	Passive (pass)-FE collection
Benchtop timer	Fisher Scientific	06-662-47	Equipment, FE preparation
Black pressure/vacuum hose	VWR	62994-795	Vacuum filter component
Buchner funnel	Coors USA	60240	Vacuum filter component, accepts 55 mm filter paper disks
Bunsen burner	-	-	Equipment
Calcium carbonate	Fisher Scientific	C64-500	Media component
Centrifuge	Sorvall	RC 5B Plus	Equipment
Centrifuge tubes (15 ml)	Fisher Scientific	05-527-90	Equipment
Centrifuge tubes (50 ml)	VWR	10025-694	Equipment, rw-FE collection
Cheesecloth (grade 50)	Fisher Scientific	AS240	Equipment, FE preparation
Chloroform	VWR	JT9175-3	Chemical, trichloromethane: assay grade, ≥ 99% pure, for molecular biology, peroxide-free
Corn Meal Agar (CMA)	Fisher Scientific	B11132	Pre-mix media, isolate storage on slants
Cotton-blue stain	Sigma-Aldrich	61335	Lactophenol cotton-blue stain
Difco Agar	VWR	90004-032	Media component
Drill-press	Delta	-	Equipment, rw-FE collection
EASypure LF Ultrapure water	Barnstead	D738	Equipment, deionized water source
Ethanol (95%)	-	-	Chemical
Filter flask (500 ml)	Pyrex	No. 5340	Vacuum filter component
Fume hood	Hamilton	-	Equipment, chloroform usage
Funnel (7 X 7 cm)	VWR	60820-110	Cranberry rw-FE collection, FE preparation
Generic glass slide	Fisher Scientific	22-038-101	Bioassay conductance

Generic plastic pump spray bottle	VWR	16126-454	pass-FE collection, at least 250 ml capacity
Glass cell culture tubes	-	-	Storage of ch-FE
Glass coverslips (22 x 22 mm)	Fisher Scientific	12-542B	Bioassay conductance
Glass Van Tieghem cells (hand cut glass tubes)	-	-	Chloroform (ch)-FE bioassay, (8 mm OD 6 mm ID)
Glass-pipette (1-100 µl)	Hamilton Co. Inc.	#710	ch-FE bioassay
Glycerol	Sigma-Aldrich	G5516	Lactophenol cotton-blue stain
Hemocytometer	Bright-Line	5971R10	Equipment
Lactic acid	Sigma-Aldrich	W261106	Lactophenol cotton-blue stain
Laminar flow hood	Labconco	3730400	Equipment, sterile work environment
Metal probe (generic)	-	-	Equipment
Microcentrifuge tubes (2 ml)	Fisher Scientific	05-408-138	Aqueous treatment mixture storage and preparation
Microscope, Leica DMLB	Leica	020-519.010	Equipment
Mortar (ceramic)	Coors USA	60313	Vacuum filter component
Nitrile gloves	Fisher Scientific	19-130-1597D	Flower collection
Paper disks (cut paper towels)	Office Basics	KCC01510	humidity control in bioassay
Parafilm	Bemis	PM-996	Plastic paraffin film
Pestle (ceramic)	Coors USA	60314	Vacuum filter component
Phenol crystals	Fisher Scientific	A92-100	Lactophenol cotton-blue stain
Plastic bags (~100 mm X 152 mm)	Uline	S1294	Equipment, flower refrigeration
Plastic cell culture dishes (9 cm diameter)	Fisher Scientific	FB0875712	(Petri dish), bioassay conductance
Polytetrafluoroethylene (PTFE) lined caps	VWR	60927-228	Storage of ch-FE
Pyrex beakers (100 ml)	Pyrex	No. 1000	Preparation of ch-FE
Pyrex bread-pan	-	-	pass-FE collection
Pyrex graduated cylinder	-	-	Equipment, FE preparation
Sealed plastic container (30 mm X 13 mm X 7 mm)	-	-	Bioassay conductance
Sharp-pointed dissecting scissors	Fisher Scientific	8940	Equipment, to cut cheese-cloth and paper disks
Stainless steel mesh strainer	VWR	470149-756	Preparation of ch-FE
Step drill bit (step-bit)	Dewalt	-	Equipment, rw-FE collection
Sterile loop (combi-loop)	Fisher Scientific	22-363-602	Culture preparation
Telephone wire (internal wires)	-	-	Blueberry rw-FE collection
Test tube basket	VWR	470137-792	Readily available substitution for plastic mesh [strawberry] basket
V8 Juice	Campbell's Soup Company	-	Fungal media component
Vintage plastic mesh [strawberry] baskets	Donation	-	pass-FE collection, can substitute for test tube basket (470137-792)
Vortex Genie (Vortex)	Fisher Scientific	12-812	Spore suspension preparation
Whatman No. 1 Qualitative 55 mm circles	Whatman	1001-055	Vacuum filter component
White plastic twist ties (100 mm)	Uline	S-566W	Cranberry rw-FE collection