

Materials List for:

Collection and Extraction of Occupational Air Samples for Analysis of Fungal DNA

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URL: <https://www.jove.com/video/56730>

DOI: [doi:10.3791/56730](https://doi.org/10.3791/56730)

Materials

Name	Company	Catalog Number	Comments
NIOSH BC251 bioaerosol cyclone sampler	NIOSH	BC251	The NIOSH sampler is not yet commercially available. Please contact William Lindsley, PhD (windsley@cdc.gov) for information on obtaining the NIOSH sampler
Fisherbrand Sterile Microcentrifuge Tubes with Screw Caps	Fisher Scientific	02-681-373	1.5 mL polypropylene microcentrifuge tubes for air sampling; screw top threading must match the threading of the NIOSH sampler
Falcon 15 mL Conical Centrifuge Tubes	Corning	352096	15 mL polypropylene tubes for air sampling
Clean Room Vinyl Tape, Easy-Remove, 1/4" Width	McMaster-Carr	76505A1	sealing tape
Filter Cassette, Clear Styrene, 37 mm	SKC Inc.	225-3LF	3-piece sampling cassette (no filter). Contains: cassette base, extension cowl, cassette cap and inlet/outlet plugs
PTFE hydrophobic fluoropore membrane filters, 3.0 µm, 37 mm	EMD Millipore	FSLW03700	Contains: 37 mm, 3.0 µm PTFE filters and support pads
Fisherbrand filter forceps	Fisher Scientific	09-753-50	filter forceps
Model 502 Precision PanaPress	PanaVise	502	pneumatic cassette press is constructed from this precision arbor press
Scotch Super 33+ vinyl electrical tape	McMaster-Carr	76455A21	19 mm tape
Multi-purpose Calibration Jar, Large	SKC Inc.	225-112	calibration jar
Universal PCXR4 Sample Pump	SKC Inc.	224-PCXR4	sampling pump
Mass Flowmeter 4140	TSI Inc.	4140	flow meter
Roche High Pure PCR Template Kit	Roche Diagnostics	11796828001	Kit used for genomic DNA extraction. Contains: Lysis buffer, Binding buffer, Proteinase K, Inhibitor removal buffer, Wash buffer, Elution buffer, Glass fiber filter tubes and 2 ml collection tubes
Fisherbrand 2 mL Reinforced Polypropylene Screw Cap Tubes with Caps	Fisher Scientific	15340162	2 mL reinforced tubes for bead homogenization
Glass beads, acid washed, 212-300 µm	Sigma-Aldrich	G1277	glass beads

Fisher Scientific Bead Mill 24 Homogenizer	Fisher Scientific	15-340-163	bead homogenizer
CellLytic B Cell Lysis Reagent, 10X	Sigma-Aldrich	C8740	lysis reagent
Platinum Taq polymerase	Invitrogen	10966-018	Contains: Platinum Taq polymerase, 10X PCR buffer (no MgCl ₂), 50 mM MgCl ₂ , KB Extender
dNTP Mix	Invitrogen	18427-088	10 mM dNTP mix
QIAquick PCR Purification Kit	Qiagen	28106	Kit used to purify fungal amplicons. Contains: Buffer PB (binding buffer), Buffer PE (washing buffer), Buffer EB (elution buffer), pH Indicator dye (optional), and GelPilot loading dye
Owl EasyCast Mini Gel Electrophoresis System	Thermo Fisher	B1 or B2	
TrackIt 1 KB Plus DNA Ladder	Thermo Fisher	10488-085	DNA ladder