

Materials List for:

Air-sampled Filter Analysis for Endotoxins and DNA Content

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Materials

Name	Company	Catalog Number	Comments
Filter sampling			
HiVol 3000 - High Volume Air Sampler	Ecotech		
Quartz Microfiber Filters	Whatman	1851-865	203 mm x 254 mm
ELF - Laboratory Chamber Furnaces	Carbolite	ELF 11series	
Aluminum foil	Opal		
Name			
Company			
Catalog Number			
Comments			
Endotoxin			
Ethanol	Sigma Aldrich	16368	Laboratory Reagent, 96%
Airstream Class II Biological Safety Cabinet AC-4E1	ESCO	10011712	
Pyrotell -T	Associates of Cape Cod, Inc.	T0051	
Control Standard Endotoxin	Associates of Cape Cod, Inc.	E0005-1	<i>Escherichia coli</i> O113:H10, 0.5 µg/ vial 1 Pack
LAL Reagent Water	Associates of Cape Cod, Inc.	W0051	
10 ml sterile syringe with Luer-Lok Tip	Becton-Dickinson & Co.	309605	
BD Precisioglide syringe needle	Becton-Dickinson & Co.	305129	Sterile
Parafilm-M sealing tape	Parafilm	P7543	Sigma catalog number
Microtubes	Axigen	MCT-200-C	2 ml, pyrogen free
1.12 cm diameter Cork Borer	Boekel Scientific	1601 BD Series - Steel	Part of a cork borer set containing borers with various diameters.
50 mm Petri Dish	Miniplast Ein-Shemer	72050-01	Aseptic
Vortex Genie 2	Scientific Industries, inc.	SI-0297	
Microcentrifuge 5415 D	Eppendorf	22621408	
TC MicroWell 96 F SI w/lid	Nunc	167008	Flat bottom wells (with lid (individually wrapped)), sterile, pyrogen free
Synergy HT Multi-Detection Microplate Reader	Biotek	7091000	
Name			
Company			
Catalog Number			
Comments			
DNA			
DNA away	Sigma Aldrich	7010	
Standard DNA of the microbial species of interest	ATCC or other culture collection		Either the appropriate microbial strain for DNA extraction or the extracted DNA
Neubauer-improved	Marienfeld	640030	hemocytometer

TE buffer, Low EDTA	Life Technologies	12090-015	10 mM Tris-HCl (pH 8.0) 0.1 mM EDTA
Nuclease-free PCR-grade water	Sigma Aldrich	3315959001	
PCR primers	Sigma Aldrich		Targets the microbial species of interest
Dual-Labeled Probes	Sigma Aldrich		Targets the microbial species of interest
Screw cap tubes	Axigen	ST-200-SS	2 ml
PowerSoil DNA extraction kit	Mo Bio Laboratories	12888-100	
Glass beads, acid-washed 425-600 μ m	Sigma Aldrich	G8772-100G	
Glass beads, acid-washed <106 μ m	Sigma Aldrich	G4649-100G	
PowerSoil Solution C1	Mo Bio Laboratories	12888-100-1	Cell lysis buffer , Power soil Kit
Magic Touch ice bucket	Bel-Art	18848-4001	
Mini-Beadbeater-16	BioSpec	607EUR	
StepOnePlus Real-Time PCR System	Applied Biosystems	4376600	
Fast SYBR Green Master Mix	Applied Biosystems	4385612	
TaqMan Gene Expression Master Mix	Applied Biosystems	4370048	
MicroAmp Fast Optical 96-Well Reaction Plate with Barcode, 0.1 ml	Applied Biosystems	4346906	
MicroAmp Splash-Free 96-Well Base	Applied Biosystems	4312063	
MicroAmp Optical Adhesive Film	Applied Biosystems	4311971	
Centrifuge 5810 R	Eppendorf	5811 000.010	Rotor A-4-62 with MTP buckets