

Materials List for:

Removal of Exogenous Materials from the Outer Portion of Frozen Cores to Investigate the Ancient Biological Communities Harbored Inside

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Materials

Name	Company	Catalog Number	Comments
Auger	Snow, Ice, and Permafrost Research Establishment (SIPRE), Fairbanks, AK		
70% Isopropanol	Walmart	551116880	
95% Ethyl Alcohol (denatured)	Fisher Scientific, Pittsburgh, PA	A407-4	
DNA decontamination solution, DNA Away	Molecular Bio-Products, Inc., San Diego, CA	7010	
RNase decontamination solution, RNase Away	Molecular Bio-Products, Inc., San Diego, CA	7002	
Light Duty Suits	Kimberly-Clark Professional, Roswell, GA	10606	
Nitrile Gloves	Fisher Scientific, Pittsburgh, PA	FFS-700	
Antiviral Masks	Curad, Walgreens	CUR3845	
Sterile Sample Bags	Nasco, Fort Atkinson, WI	B01445	
Steel Microtome Blade	B-Sharp Microknife, Wake Forest, NC		
Metal Rack	Fabricated at CRREL, Hanover, NH		
Tray	Handy Paint Products, Chanhassen, MN	7500-CC	
Aluminum Foil	Western Plastics, Temecula, CA		
500 ml Bottle with 0.22 µm Filter	Corning, Corning, NY	430513	
<i>Serratia marcescens</i>	ATCC, Manassas, VA	17991	
Biosafety Hood	NuAire, Plymouth, MN	NU-425-400	
Petri Dish	Fisher Scientific, Pittsburgh, PA	FB0875712	
ATCC Agar 181- Tryptone	Acros Organics, NJ	61184-5000	
ATCC Agar 181- Glucose	Fisher Scientific, Pittsburgh, PA	BP381-500	
ATCC Agar 181- Yeast Extract	Fisher Scientific, Pittsburgh, PA	BP1422-500	
ATCC Agar 181- Dipotassium Phosphate	JT Baker, Phillipsburg, NJ	3252-01	
ATCC Agar 181- Agar	Difco, Sparks, MD	214530	
NanoDrop 2000 UV Vis Spectrophotometer	Thermo Fisher Scientific, Wilmington, DE		

Lightcycler 480 System	Roche Molecular Systems, Inc., Indianapolis, IN		
<i>Halobacterium salinarum</i>	American Type Culture Collection (ATCC), Manassas, VA		
<i>Pseudomonas fluorescens</i>	American Type Culture Collection (ATCC), Manassas, VA		
Microbial DNA Isolation Kit	MoBio Laboratories, Carlsbad, CA	12224-50	
Ear Protection	Elvex	EP-201	
Hard Hat			
Kimwipes	Kimberly-Clark Professional, Roswell, GA	34705	
Glass Wool	Pyrex	430330	
Ruler			
Weighing Tin	Fisher Scientific, Pittsburgh, PA	08-732-100	
Sodium chloride	Sigma Aldrich, St Louis, MO	S-9625	
Potassium chloride	JT Baker, Phillipsburg, NJ	3040-04	
Potassium phosphate, monobasic	JT Baker, Phillipsburg, NJ	3246-01	
Potassium phosphate, dibasic	JT Baker, Phillipsburg, NJ	3252-01	
Sodium phosphate dibasic, anhydrous	Fisher Scientific, Pittsburgh, PA	BP332-500	
50 ml Centrifuge Tubes	Corning, Corning, NY	4558	
2 ml Microcentrifuge Tubes	MoBio Laboratories, Carlsbad, CA	1200-250-T	
2 ml Ceramic Bead Tubes (1.4 mm)	MoBio Laboratories, Carlsbad, CA	13113-50	
Scoopula	Thermo Fisher Scientific, Wilmington, DE	1437520	
Balance	Ohaus, Parsippany, NJ	E12130	
Diethylpyrocarbonate (DEPC)	Sigma Aldrich, St Louis, MO	D5758	
Hexadecyltrimethylammoniumbromide (CTAB)	Acros Organics, NJ	22716-5000	
Polyethylene glycol 8000	Sigma Aldrich, St Louis, MO	P5413-1KG	
Phenol-chloroform-isoamyl alcohol (25:24:1) (pH 8)	Fisher Scientific, Pittsburgh, PA	BP1752-400	
Centrifuge	Eppendorf, Hauppauge, NY	5417R	
Chloroform-isoamyl alcohol (24:1)	Sigma Aldrich, St Louis, MO	C0549-1PT	
TE Buffer	Ambion (Thermo Fisher), Wilmington, DE	AM9860	
Pipets	Rainin, Woburn, MA	Pipet Lite XLS, 2, 10, 200, and 1,000 µl pipets	
Pipet tips	Rainin, Woburn, MA	Rainin LTS presterilized, low retention, filtered tips, 10, 20, 200, 1,000 µl	
Vortexor	Scientific Industries, Bohemia, NY	G-560	
Vortex Adaptor	MoBio Laboratories, Carlsbad, CA	13000-V1	
Clear Bottle	Corning, Corning, NY	C1395500	
Amber Bottle	Corning, Corning, NY	C5135250	
Bottle Top Filters, 0.22 µm	Corning, Corning, NY	430513	
60 ml Syringe	Becton, Dickenson and Company, Franklin Lakes, NJ	BD 309653	
Millex Syringe filters, 0.22 µm	EMD Millipore, Billerica, MA	SLGV033RB	

70% Ethanol	Fisher Scientific, Pittsburgh, PA	BP2818-500	diluted & filter sterilized
Isotemp 100 L Oven	Fisher Scientific, Pittsburgh, PA	151030511	
Cell Spreader	Fisher Scientific, Pittsburgh, PA	08-100-10	
Disposable Inoculating Loops	Fisher Scientific, Pittsburgh, PA	22-363-602	