



Footlocker Guide

DNA Learning Center
Cold Spring Harbor Laboratory

This footlocker guide has been created to help identify the equipment and materials borrowed as part of *Barcode Long Island (BLI)*. It will aid in checking to make sure all equipment and materials have been provided, as well as easily identifying which materials are used for each step of the protocol. The next few pages detail all equipment and reagents needed by name and picture.

A (mock) *BLI* Footlocker Kit Application form, which will need to be filled out before acquiring a footlocker, is shown toward the end of this document. The form is available on the *Barcode Long Island* website. Additionally, you will find a (mock) *BLI* Footlocker Kit list that will be included in every footlocker. It covers the equipment/materials listed, as well as totals of each item that you will receive in your specific footlocker. Please remember that the totals will be different depending upon the availability of equipment and the number of teams/students at each school.

***Please note: EQUIPMENT is limited, therefore you may not receive multiples of some of these items, even if you have multiple teams.** Example: 2 miniPCR machines may be included in your footlocker if you have multiple teams; however, you may only receive one based upon availability.

A special thank you to Lisa Daniels for collaborating with us to put together this guide!

Forms and Guides



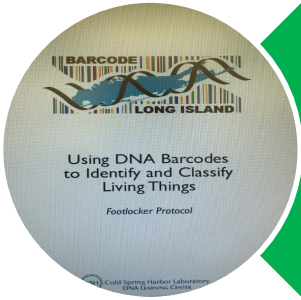
Footlocker Kit Request Form



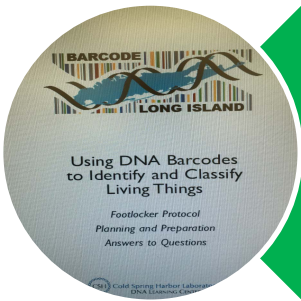
Barcoding Footlocker Kit List



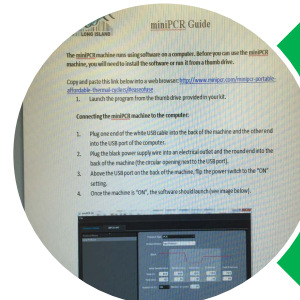
Barcode Long Island USB



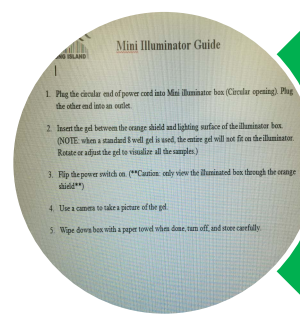
BLI Student Protocol (Footlocker Protocol)



BLI Teacher Protocol (Planning and Preparation)



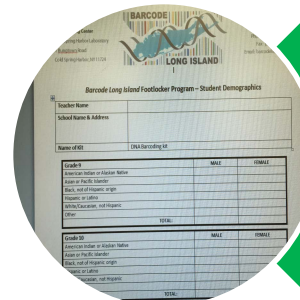
miniPCR Guide



Mini Illuminator Guide



Waterbath Quick Start Guide (included on USB)



Demographic Sheet

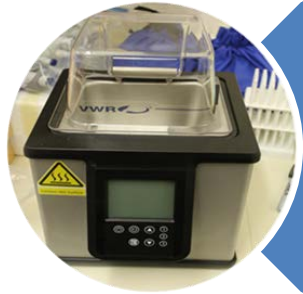
Equipment



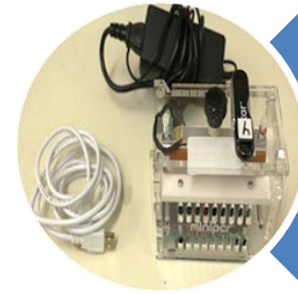
Pestles



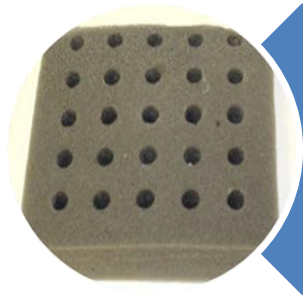
Microcentrifuge



Waterbath



MiniPCR or
Thermocycler



Styrofoam Rack for
Waterbath



Gray Micropipettors
(0.5 μ l - 10 μ l)



Thermometer



Yellow Micropipettors
(10 μ l - 100 μ l)



Mini
Transilluminator



Blue Micropipettors
(100 μ l - 1000 μ l)

Equipment



Pipette tips
(0.5 μ l – 10 μ l)



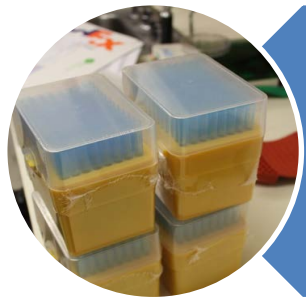
Sharpies



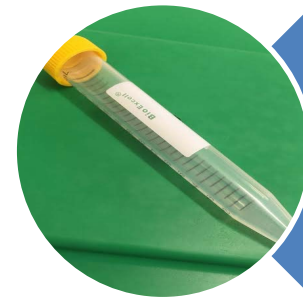
Pipette tips
(10 μ l – 100 μ l)



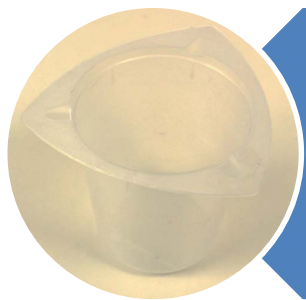
1.5 ml Tubes



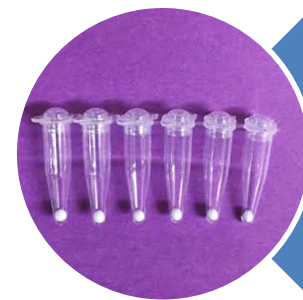
Pipette tips
(100 μ l – 1000 μ l)



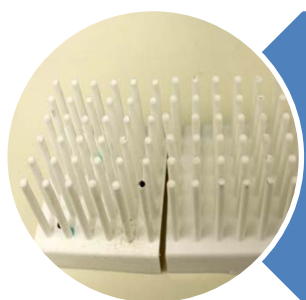
15 ml Screw Cap
Tubes



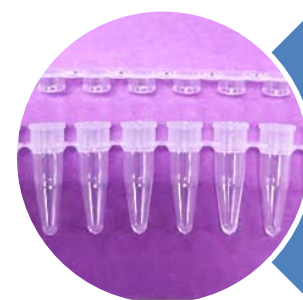
Plastic Beakers



0.2 ml PCR Tubes
(+ PCR beads)



White/Blue
Microfuge Tube
Racks

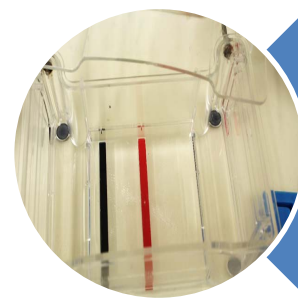


0.2 ml Strip Tubes
(for samples to be
sequenced)

Equipment



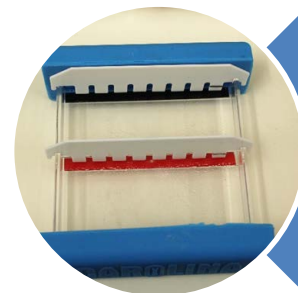
Roll of Tape



Gel Electrophoresis Chambers



Styrofoam Container (containing fridge/freezer supplies)



Gel Electrophoresis Trays, Rubber Dams, and Combs



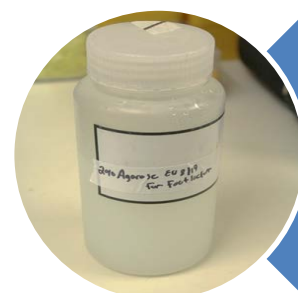
Cold Packs



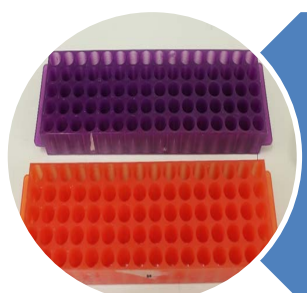
Power Supply



1.5 ml Tube Boxes



Plastic Bottle with 2% Agarose Gel



"80 Tube" Racks



Plastic Bottle with Electrophoresis Running Buffer (1x or 10x TBE)

Reagents



Guanidine Hydrochloride
(Lysis solution)



Silica Resin



Wash Buffer
(to be aliquoted for extraction)



Sterile Distilled Water
(to be aliquoted for extraction)



Practice loading dye



100bp ladder



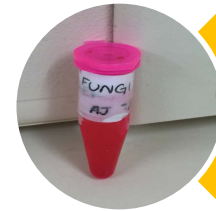
SYBR Green



Plant Primer Mix



Invertebrate Primer Mix



Fungi Primer Mix



Plant Positive
DNA Control



Invertebrate Positive
DNA Control



Fungi Positive
DNA Control

Footlocker Application Form

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NYC URBAN BARCODE PROJECT

Urban Barcode Project Footlocker Kit Application Form

Date	08/20/2015
Teacher Name	Lisa Daniels
Teacher Email	[REDACTED]
Teacher Phone	[REDACTED]
School Name	Roslyn HS
School Address	475 Round Hill Rd Roslyn, NY 11577
School Phone	516 801 5100
Grade of Students	9, 10
Teams using this kit	# teams: <u>2</u> # students (total): <u>6</u> Project titles: <u>Biodiversity of Plants</u> <u>Insects of Long Island</u>
Types of Samples and Number of DNA extractions <small>(Please indicate the number of DNA extractions you plan to perform for each sample type)</small>	Plant # <u>20</u> Other animals (specify the type and #): Algae # _____ Type: _____ # _____ Fish # _____ Insect # <u>20</u>
I would like this kit by... <small>(choose days between Tuesday and Friday)</small>	Date: <u>09/01/2015</u>
Do you have any equipment/materials for this lab? <small>(Please enter X for answer)</small>	Yes _____ No <u>X</u> If you have equipment/materials, please complete page 2.

FOR OFFICE USE ONLY

Pick-up Date	
Return Date	
Fee	

Footlocker Kit List

Barcoding Kit Name of Teacher: Lisa Daniels Date: 08/20/15

Equipment	Quantity shipped	Quantity received	Condition
Pestle (reusable...please do not discard!)	40		
Waterbath	1		no temp
Styrofoam rack for waterbath	1		
Thermometer	1		
UV box	1		
Digital camera for hood	1		
Camera hood	1		
Microcentrifuge	1		
Thermocycler	2		
Gray micropipettor (10ul)	4		
Yellow micropipettor (100ul)	4		
Blue micropipettor (1000ul)	4		
10 ul tips (~6 tips per sample)	3		
100 ul tips (~6 tips per sample)	3		
1000 ul tips (~8 tips per sample)	4		
Plastic beakers (2 per team)	4		
White racks	3		
Sharpies (finepoint)	3		
1.5 ml microfuge tubes (4 per rxn)	400		
1.5ml microfuge tubes for aliquots			
0.2ml tubes for PCR	50		
15 ml tubes for aliquots			
0.2 ml strip tubes (to add PCR samples going to sequencing)	6		
Roll of tape AND/OR gel sealer	1		
Styrofoam box and cold pack for cold materials	1		

1 per team 1 teacher