

Overview

This ordering guide provides information on vendors and lists all the **supplies, reagents** and **equipment** you will need to implement the Phage Discovery component of the course (see below). The supply list is tailored for the new SEA schools.

- To facilitate planning and ordering of the supplies necessary, and where appropriate, the *estimated* quantities for each item is included, either as per student or per class.
- Items listed as "optional" are not critical for implementing the course, though many would significantly simplify preparation for and implementation of the course.
- If you are considering substituting items listed in the list, check with the SEA
 Team for suitability of the substitutes. Some substitutes have been found to
 negatively impact experiments as described in SEA-PHAGES protocols.

Vendors

We have provided vendor information and catalog numbers for the supplies listed in this document. Note, however, that supplies can be purchased from any vendor of your choice, and that you should take advantage of better pricing on individual items when it is available.

• Fisher Scientific

HHMI has negotiated special pricing for supplies that are available from Fisher Scientific. These prices are listed in the "Fisher Scientific Quote" document available at seaphages.org. If you intend to take advantage of these prenegotiated prices, please use the quote provided at the top of the document. If the quote # provided does not work, or if your local Fisher representative is unable to apply the negotiated-prices, please contact the Thermo Fisher VAS Team to inform that you are part of the Science Education Alliance program with HHMI and would like to utilize an HHMI quote. Failling that, please contact us info@seaphages.org for assistance.

Thermo Fisher VAS TEAM

Phone: 866-884-2019 | E-mail: cs.vastatlanta@thermofisher.com

Hours of operation: 7a.m. - 9p.m. eastern

New England Biolabs

If you intend to purchase any reagents from New England Biolabs, remember to ask your local rep if there is an education discount available.

Ted Pella

Electron Microscopy supplies can be purchased from this vendor.

Supp	Supplies for Remote Faculty Training						
Items	# per student	# per classroom	vendor	catalog#	nemote racarty framing		
Consumables	•						
Aicrocentrifuge tubes (Eppendorf)	100		Fisher	05-402-27	100 microcentrifuge tubes		
Conical tubes (15mL)	10		Fisher	05 539 12	10 conical tubes		
onical tubes (50mL)	10		Fisher	06 443 18	10 conical tubes		
(ented conical tubes	optional (3)	optional	Fisher	50-202-015	206 = = = + + + + = =		
Aicropipet tips, box (p1000)	3	optional	Fisher Fisher	02-717-352 02-717-351	2 x 96 pipette tips		
Aicropipet tips, box (p20-200) Aicropipet tips, box (p10)	1		Fisher	02-717-351	6 x 96 pipette tips 2 x 96 pipette tips		
erological pipette (5mL or 10 mL)	50		Fisher	13 678 11D	100 serological pipettes		
yringe (5mL)	10		ColePalmer	07944-02	20 syringes		
yringe filter (0.22um)	10		Fisher	09 927 43A	20 syringe filters		
terile wooden sticks or loop		optional	Fisher	23 400 112	50 sterile sticks or loops		
ube top filtration system (requires a vacuum line)	5		Fisher; no HHMI discount	976134	8 units		
ryogenic Tubes		1	Fisher	03-337-7Y			
lassware							
ulture tube	40		Fisher	14 961 27	100 tubes		
ulture tube caps	40		Fisher	14 957 92	100 caps		
Tolecular Biology Supplies							
kb ladder 50ng/uL, aliquot (100uL)		2	New England Biolabs	N3012S	1 unit		
oncentrated DNA loading dye		1	Fisher	BP6455	1 unit		
Nase 1		1	Fisher	ICN10057520	1 unit		
Nase A	<u> </u>	1	Fisher	BP25391	1 unit		
roteinase K		1	Fisher	EO0491	1 unit		
aeIII + buffer (bacterial host-dependent)		2	New England Biolabs	R0108S	1 unit		
spl + buffer (bacterial host-dependent)		2	New England Biolabs	R0602S	1 unit		
acII + buffer (bacterial host-dependent)		2	New England Biolabs	R0157S	1 unit		
izard DNA Clean-up System		1	Fisher	PR A7280	1 unit		
A Supplies							
00-400 mesh carbon-formvar coated copper grids	1		Ted Pella	01813	optional		
ranyl Acetate 2%, aliquot (100uL)		1	Fisher	NC1031425	optional		
M reverse forceps		2	Ted Pella	5377-NM	optional		
elco tabs	1		Ted Pella	16084-1	optional		
hatman #3 filter paper wedges	2		Fisher	09 924 120	optional		
arafilm (5x5cm) rid storage box		2	Fisher Ted Pella	13 374 10 161-96	optional optional		
Tru storage box		1	ieu reiia	101-90	ориона		
mall bench equipment							
ack (13mm)	1		Fisher	14 809 60	1 unit		
ack (30mm)	1		Fisher	14 809 36	1 unit		
ack (microcentrifuge tube) unsen burner (is gas line is available)	0.5		Fisher Fisher	05 541 25 17-012823	1 unit 1 unit		
Mobile Bunsen burner (if no available gas line)	0.5		Fisher	S41872	1 unit, if gas line is not available		
utane Can Replacements (if no available gas line)	1		Fisher	S41873	1 unit, if gas line is not available		
triker	0.5		Fisher	12 007	1 unit		
ortexer	0.5	optional	Fisher	see Fisher Site	2 01110		
ficrocentrifuge	0.25	ориона	Fisher	05 400 007	1 unit		
licropipettor (p20)	1		Fisher	FBE00020	1 unit		
licropipettor (p200)	1		Fisher	FBE00200	1 unit		
licropipettor (p1000)		optional	Fisher	see quote	1 unit		
pette-aid	1	· ·	Fisher	13 683C	1 unit		
ecialty and large equipment (access required)				ı			
alance		1	Fisher	01 912 407	access required		
igh speed centrifuge (for 50 ml conical tubes)		optional	Fisher	75 063 839	access preferred		
naking incubator (platform & clamps not included)		1	Fisher	14 285 732	access required		
eating block (inserts not included)		2	Fisher	88 860 021	or water bath		
eating block inserts			Fisher	88 860 113	or water bath		
ater bath		2	Fisher	07 202 155	or heating blocks		
each in incubator		1	Fisher	15-015-2645	access required		
naging system		1	Fisher	UVP97019801	access required		
anodrop or other Spectrophotometer		1	Fisher	ND200	access required		
el Rig and Power Supply		1	Fisher	FB300Q	access required		
el casting tray/comb (27 lanes) ectron microscope		2 access required	Fisher	OWA6	or sutiable precast gels		
·							
rchiving Supplies	4						
arcoded tubes (provided by HHMI) MSO (200uL)	1	1	Fisher	BP231 100			
		<u> </u>	1.151101	2. 231 100			
dditional Supplies							
abeling pen	1						
aboratory Notebook	0.5						
uler mer	0.5						
mer omputer/laptop	0.5	access required					
atex or vinyl gloves, (S,M,L,XL)		1 each	Fisher	19 005 427			
ealable plastic bag	4	1 cacii	1131101	13 003 427			
	•	optional	1				
1icrowave		Optional					

Reagents / Equipment for Prep								
Items	# per student	# per classroom	vendor	catalog#				
Chemicals/Media/Reagents	·							
DTA, disodium salt		optional	Fisher	BP120 500	20 g			
sopropanol		1L	Fisher	A4511	20 ml			
thanol			Fisher	BP2818500				
.garose		25g	Fisher	BMA50001	5 g or 2 precast gels			
Dextrose, anhydrous		500g	Fisher	D16 500	80 g			
Glycerol		500mL	Fisher	AAA16205AP				
OX TAE/TBE		1L	Fisher	BMA50844	1 unit, or enough TBE to perform 2 gel electrophore			
ris Base		1kg	Fisher	AC167620010	13 g			
Calcium chloride		1kg	Fisher	C77 500	15 g			
odium chloride		1kg	Fisher	BP358 1	5 g or 2 precast gels			
odium Dodecyl Sulfate		10g	Fisher	BP820010	1 g			
Nagnesium Sulfate Anhydrous		500g	Fisher	M65-500	15 g			
Cycloheximide		1g	Fisher	ICN10018301	1 unit			
thidium bromide		1	Fisher	BP1423 500	1 unit or precast gels			
gar, bacteriological		250g	Fisher	BP1423 500	40 g			
eptone		500g	Fisher	BP1420 500	60 g			
east extract		500g	Fisher	BP1422-500	5 g or 2 precast gels			
CiDecon (disinfectant)		3L	Fisher	04 355 64	1 unit			
Handsoap		1L	Fisher	435516				
2		1	T		1			
Glassware/Consumables for Prep		4	Fish su	10-140-6A	at least 2 ideally seems			
Baffled flasks, 250mL glass		4	Fisher Fisher	10-140-6A 14-957-85J	at least 2, ideally more			
Baffled flasks caps, 250mL glass		4			same quantity as flasks			
Veight boats, small Veight boats, large	optional	1	Fisher Fisher	02-202-101 02-202-103	1 pack/optional			
iltration units, 0.5 L	optional	1 6	Fisher; no HHMI discor		1 pack/optional 2 units			
Petri dishes, case of 500		2	Fisher; no HHIVII discol	FB0875712	2 units 1 unit			
		5	Fisher		5			
Media bottles, 100mL Media bottles, 250mL		5	Fisher	FB800100 FB800250	5			
		5	Fisher	FB800250	2			
Media bottles, 500mL		_		FB800500 FB8001000	2 2			
Media bottles, 1L		optional	Fisher		Z			
Beakers, 250mL Beakers, 500mL		optional	Fisher Fisher	02 555 2 02 555 2				
•		optional			2			
Stir bars		optional	Fisher	14 513 61	2			
quipement for Prep								
Autoclave		access required			access required			
Analytical balance		access required			access required			
ldeg C refrigerator		access required	Fisher	20LREETSA	access required			
20deg C freezer		access required	Fisher	05LFEETSA	access required			
BOdeg C freezer		access required	Fisher	956PM	access required			
tir plates		access required			access required			
hermometers		optional						