



Ordering Guide

Overview

This ordering guide lists all the **supplies, reagents and equipment** you will need to implement the Phage Discovery component of the course (below). 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.

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 pre-negotiated 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. Failing 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.

Supplies for in-class Use				
Items	# per student	# per classroom	vendor	catalog #
Consumables				
Microcentrifuge tubes (generic)	100		Fisher	see quote
Microcentrifuge tubes (Eppendorf)	6		Fisher	see quote
Conical tubes (15mL)	10		Fisher	see quote
Conical tubes (50mL)	10		Fisher	see quote
Micropipet tips, box (p1000)		optional	Fisher	see quote
Micropipet tips, box (p20-200)	3		Fisher	see quote
Micropipet tips, box (p10)	1		Fisher	see quote
Serological pipette (1mL)		optional	Fisher	see quote
Serological pipette (5mL)	50		Fisher	see quote
Serological pipette (10mL)		optional	Fisher	see quote
Serological pipette (25mL)		optional	Fisher	see quote
Syringe (1mL)		optional	Fisher	see quote
Syringe (3mL)		optional	Fisher	see quote
Syringe (5mL)	5		Fisher	see quote
Syringe (1, 3 , or 5 ml)	5		ColePalmer	WU-07944-02
Syringe filter (0.22um)	10		Fisher	see quote
Sterile wooden sticks or loop		optional	Fisher	see quote
Tube top filtration system	5		Fisher	see quote
Glassware				
Baffled flask (250mL), glass or PETG	2	optional	Fisher	see quote
Media bottle (100mL)		optional	Fisher	see quote
Erlenmeyer flask		optional	Fisher	see quote
Culture tube	40			
Molecular Biology Supplies				
1kb ladder 50ng/uL, aliquot (100uL)		2	New England Biolabs	N3012S
DNase 1		1	Fisher	see quote
RNase A		1	Fisher	see quote
BamHI + buffer		2	New England Biolabs	R0136S
Clal + buffer		2	New England Biolabs	R0197S
EcoRI + buffer		2	New England Biolabs	R0101S
HaeIII + buffer		2	New England Biolabs	R0108S
HindIII + buffer		2	New England Biolabs	R0104S
Sall + buffer		2	New England Biolabs	R0138S
Wizard DNA Clean-up System	see below		Fisher	see quote
Wizard DNA resin, 2mL	1		prepare from stock	
Wizard DNA columns	2		prepare from stock	
EM Supplies				
200-400 mesh carbon-formvar coated	1		Ted Pella	1813
Uranyl Acetate 2%, aliquot (100uL)		1	SPI Supply	02624-AB
EM reverse forceps		2	Ted Pella	5377-NM
Pelco tabs	1		Ted Pella	16084-1
Whatman #3 filter paper wedges	2		Fisher	see quote

Petri dish		2	Fisher	see quote
Parafilm (5x5cm)		2	Fisher	see quote
Grid storage box		1	Ted Pella	161
Small bench equipment				
Rack (13mm)	1		Fisher	see quote
Rack (20mm)	1		Fisher	see quote
Rack (30mm)	1		Fisher	see quote
Rack (microcentrifuge tube)	1		Fisher	see quote
Bunsen burner	0.5		Fisher	see quote
Striker	0.5		Fisher	see quote
Bench cleaning materials	0.5		Fisher	see quote
Vortexer	0.5		Fisher	see quote
Microcentrifuge	0.25		Fisher	see quote
Micropipettor (p10)	0.5		Fisher	see quote
Micropipettor (p20)	1		Fisher	see quote
Micropipettor (p200)	1		Fisher	see quote
Micropipettor (p1000)		optional	Fisher	see quote
Pipette-aid	1		Fisher	see quote
Specialty and large equipment				
Balance		1		
High speed centrifuge		optional		
Shaking incubator		1		
Heating block		2		
Water bath		2		
Reach in incubator		1		
Transilluminator		1		
Imaging system		1		
Spectrophotometer/Nanodrop		1		
Gel power Supply		1		
Gel rig		1		
Gel casting tray/comb (27 lanes)		2		
4deg C refrigerator		1		
-20deg C freezer		1		
-80deg C freezer		1		
Electron microscope		optional		
Archiving Supplies				
Barcoded tubes (from Pitt)	1			
DMSO (200uL)		1	Fisher	see quote
Sterile beads		1	Fisher	see quote
Additional Supplies				
Labeling pen	1			
Laboratory Notebook	1			
Ruler	0.5			
Timer	0.5			

GPS location device		1		
Computer/laptop		1		
Latex or vinyl gloves, (S,M,L,XL)		1	Fisher	see quote
Sealable plastic bag	4			
Microwave		1		
Kimwipes, box	0.5		Fisher	see quote
Reagents / Equipment for Prep				
Items	# per student	# per classroom	vendor	catalog #
Chemicals/Media/Reagents				
DNase 1		1	Fisher	see quote
RNase A		1	Fisher	see quote
EDTA, disodium salt		500g	Fisher	see quote
Isopropanol		1L	Fisher	see quote
Ethanol		1L	Fisher	see quote
Agarose		25g	Fisher	see quote
Albumin		100g	Fisher	see quote
Dextrose, anhydrous		500g	Fisher	see quote
Glycerol		500mL	Fisher	see quote
Tween 80		500mL	Fisher	see quote
Anti-bubble (optional)		15mL	Fisher	see quote
10X TAE/TBE		1L	Fisher	see quote
Calcium chloride		1kg	Fisher	see quote
Magnesium chloride		500g	Fisher	see quote
Carbenicillin		10g	Fisher	see quote
Cycloheximide		1g	Fisher	see quote
Ethidium bromide		1	Fisher	see quote
Promega Wizard® DNA Clean Up Kit		1	Fisher	see quote
Agar, bacteriological		250g	Fisher	see quote
Luria base, Miller		500g	Fisher	see quote
7H9 broth base		500g	Fisher	see quote
Ethidium bromide		10mL	Fisher	see quote
CiDecon (disinfectant)		3L	Fisher	see quote
Handsoap		1L	Fisher	see quote
DNA standard		1	Fisher	see quote
Concentrated loading dye		1	Fisher	see quote
Glassware/Consumables for Prep				
Baffled flasks, 1L		4	Fisher	see quote
Baffled flasks, 250mL, glass or PETG		4	Fisher	see quote
Filtration units, 0.5-1L		optional	Fisher	see quote
Autoclavable sealed packs (optional)		optional	Fisher	see quote
Petri dishes, case of 500		2	Fisher	see quote
Media bottles, 100mL		optional	Fisher	see quote
Media bottles, 250mL		optional	Fisher	see quote
Media bottles, 500mL		optional	Fisher	see quote
Media bottles, 1L		optional	Fisher	see quote
Beakers, 250mL		optional	Fisher	see quote

Beakers, 500mL		optional	Fisher	see quote
Beakers, 2L		optional	Fisher	see quote
Stir bars		optional	Fisher	see quote
Equipement for Prep				
Autoclave				
Analytical balance				
Stir plates				
Thermometers (optional)				