NBP Analytical Instruments and Equipment

Analytical instruments and Equipment	Quantity
Product(s)	on Hand
Autoclave	
Autoclave, sterilizer, top-loading, 50 L capacity, 105 °C to 135 °C sterilization temp, timer,	
programmable, Bio Lab, Hirayama HV-50.	1
Aquarium	
Aquarium, glass, 10 gallon, 20" L x 10" W x 12" H.	5
Balance and Scale	
Balance, analytical, w/ draft shield, digital, 320 g x 0.0001 g (capacity x readability), 9 cm	
diameter pan, Mettler New Classic MF, MS304S/03 (for use in port at Punta Arenas, Chile unless	
otherwise requested).	1
Balance, analytical, w/ draft shield, digital, 320 g x 0.0001 g (capacity x readability), 9 cm	
diameter pan, Mettler MS304TS/00 (for use in port at Punta Arenas, Chile unless otherwise	
requested).	1
Balance, marine scale, motion compensated, digital, capacity 1.5 kg, resolution 0.1 g to 0.3 kg;	
0.2 g to 0.6 kg; 0.5 g to 1.5 kg, 12 cm x 12 cm pan, POLS S-182.	1
Balance, marine scale, motion compensated, digital, capacity 3 kg, dual resolution, resolution 0.5	
g to 1.5 kg, resolution 1 g from 1.5-3 kg, 25 cm x 30 cm pan, Marel M1100 PL2262.	1
Balance, topload, digital, 2100 g x 0.01 g (capacity x readability), 16.5 cm x 16.5 cm pan, Mettler	
PG2002-S.	2
Balance, topload, digital, 3200 g x 0.01 g (capacity x readability), 17 cm x 20 cm diameter pan,	
Mettler MS3002S (for use in port at Punta Arenas, Chile unless otherwise requested).	1
Scale, cargo, digital, 400 lbs x 0.5 lbs / 180 kg x 0.2 kg, 12" x 12".	2
Scale, hanging, 110 lbs x 8 oz / 50 kg x 200 g, accurate to one part in 250, Salter 235-6S.	1
Scale, hanging, spring with clip, 100 g x 1 g division, Pesola Micro-Line 20100.	1
Scale, hanging, spring with clip, 600 g x 5 g division, Pesola Medio-Line 40600.	2
Scale, hanging, spring with clip, 1000 g x 10 g division, Pesola Medio-Line 41000.	1
Scale, hanging, spring with hook, 1000 g x 10 g division, Pesola Medio-Line 41000 (this item	
originally came with a clip. The clip was modified to a hook).	1
Scale, hanging, spring with hook, 2500 g x 20 g division, Pesola Medio-Line 42500.	2
Scale, hanging, spring with hook, 5 kg x 50 g division, Pesola Macro-Line 80005.	2
Bath, Circulating	
Bath, circulating, digital, -24 °C to +150 °C, stability +/- 0.01 °C, ID 8.8" x 9.4" x 9", 18.1 L, Neslab	
RTE-17.	2
Bath, circulating, digital, -25 °C to +150 °C, stability +/- 0.01 °C, ID 9.3" x 10" x 6", 12.1 L, Neslab	
RTE-211D.	1
Bath, circulating, digital, -20 °C to +100 °C, ID 5.3" x 4.8" x 5", 5.4-6.5 L, Polystat 1C6.	1
Bath, circulating, digital, -28 °C to +100 °C, ID 6.8" x 7.2" x 5", 6.8-8.6 L, Polystat 1C15.	2
Bath, circulating, digital, -25 °C to +150 °C, stability 0.02 °C, ID 7.2" x 6.8" x 8", 12 L, Thermo	
Scientific SC150-A25.	1

Bath, non-circulating, analog, +5 °C above ambient to +99 °C, uniformity +/-0.2 °C at 37 °C, ID 11"	
x 12" x 6", 12 L, VWR 1212.	1
Bath, Dri	
Bath, dri, modular, holds six blocks, ambient to +150 °C, accuracy: +/- 0.5% repeatability, with	
50, 15, 1.5 ml and 25 mm tube size blocks (request below), VWR 13259-038.	3
Heat block, 12 x 15 ml conical bottom centrifuge tubes, 0.672" diameter, VWR	
13259-250.	2
Heat block, 20 x 1.5 ml non-graduated (smooth sided) microtubes, tapered, VWR	
13259-286.	3
Heat block, 5 x 50 ml conical bottom centrifuge tubes, 1.14" diameter, VWR 13259-254.	1
Bath, dri, modular, holds three blocks, ambient to +110 °C, stability +/- 0.1 °C, uniformity +/- 0.5	
°C, with 6, 13, 16 mm tube size blocks (request below), Thermolyne DB16525.	1
Heat block, 12 x 16 mm tube size, max tube size 16.75 mm, Thermolyne BK165X7A.	1
Heat block, 20 x 13 mm tube size, max tube size 13.75 mm, Thermolyne BK165X5A.	
Heat block, 30 x 6 mm tube size, max tube size 6.5 mm, Thermolyne BK165X3A.	2
Bath, dri, modular, holds two blocks, ambient to 130 °C, uniformity +/- 0.5 °C, with 6, 12, 13, 25	
mm tube size blocks (request below), Fisher Model 2052FS, p/n 11-718-2Q.	1
Heat block, 6 x 6 mm test tubes, 5 x 12 mm & 13 mm test tubes, 3 x 25 mm test tubes,	
Fisher 11-718-22Q.	4
11311e1 11-710-22Q.	4
Bath, Ultrasonic	
Bath, shaking, heated, +5 °C above ambient to +70 °C, accuracy +/- 0.1 °C, uniformity +/-0.3 °C,	
	1
ID 14" x 10" x 5", 7 L, 50-150 oscillations/min/60Hz, timer to 60 min, Yamato YB521.	1
Bath, ultrasonic cleaner, ID 11.5" x 6" x 6", 5.7 L, Branson 3200R-1. Bath, ultrasonic cleaner, ID 11.5" x 9.5" x 5.8", 10.4 L, heat, adjustable power burst and	1
	1
degassing, timer to 20 min, Ney ULTRAsonik 300.	1
D	
Burner	
Burner, alcohol, 4oz.	1
Burner, torch kit, with propane.	1
Calipers	
Calipers, electronic, digital, 0-200 mm, resolution 0.01 mm, accuracy +/- 0.03 mm, stainless	
steel, traceable to NIST Standards, VWR 12777-830.	1
Calipers, dial, 0-150 mm, dial gradation 0.1 mm, 10 mm per revolution, Super Polymid (fiberglass-	
reinforced polymer), Swiss Precision Instruments 31-415-3.	1
Centrifuge	
Centrifuge, benchtop, refrigerated, -20 °C to +40 °C, variable speed up to 18,000 rpm, timer to 9	
hr 59 min, Beckman Allegra X-30R.	2
Rotor, fixed angle, 25°, 10-place x 15 mL conical bottom tubes, 10,000 rpm max / 10,416 x g	
rcf max, C1015 for Beckman Allegra X-30R.	2
Rotor, fixed angle, 25°, 6-place x 50 mL conical bottom tubes, 10,000 rpm max / 10,304 x g	
rcf max, C0650 for Beckman Allegra X-30R.	2

Rotor, fixed angle, 25°, 8-place x 50 mL round bottom tubes, 11,400 rpm max / 13,682 x g	
rcf max, F0850 for Beckman Allegra X-30R.	1
Rotor, fixed angle, 30°, 6-place x 30 mL round bottom tubes, 18,000 rpm max / 28,305 x g	
rcf max, F0630 for Beckman Allegra X-30R.	1
Rotor, fixed angle, 45°, 30-place x 1.5/2.0 mL, 16,000 rpm max / 28,672 x g rcf max, FX301.5	
for Beckman Allegra X-30R.	2
Centrifuge, benchtop, non-refrigerated, variable speed up to 16,000 rpm, timer to 99 hr 59 min,	
Thermo Scientific Sorvall ST 8.	2
Rotor Adapter, 1-place x 15 mL conical bottom tube, for use with TX-150 and HIGHConic III	
rotors for Thermo Scientific Sorvall ST 8.	2
Rotor Sleeve, 1-place x 15 mL conical or round bottom tube, for use with CLINIConic rotor	
for Thermo Scientific Sorvall ST 8.	2
Rotor, fixed angle, 37°, 30-place x 15 mL conical or round bottom tubes (requires sleeves -	
request above), 4,400 rpm max / 3,030 x g rcf max, CLINIConic for Thermo Scientific Sorvall	
ST 8.	2
Rotor, fixed angle, 45°, 6-place x 50 mL conical bottom tubes, 8,700 rpm max / 10,155 x g	
rcf max, HIGHConic III for Thermo Scientific Sorvall ST 8.	2
Rotor, swinging bucket, 8-place x 50 mL conical bottom tubes, 4,500 rpm max / 3,260 x g	
rcf max, TX-150 for Thermo Scientific Sorvall ST 8.	2
Centrifuge, micro, non-refrigerated, variable speed up to 15,060 rpm / 21,300 x g rcf, timer to 9	
hr 59 min, Eppendorf 5425.	2
Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, aerosol-	_
tight, 15,060 rpm max / 21,300 x g rcf max, FA-24x2 for Eppendorf 5425.	2
Centrifuge, micro, refrigerated, -11 °C to +40 °C, variable speed up to 16,220 rpm / 25,001 x g	
rcf, timer to 9 hr 59 min, Eppendorf 5427R.	2
Rotor, fixed angle, 45°, 30-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, aerosol-	
tight, 14,000 rpm max / 20,817 x g rcf max, FA-45-30-11 for Eppendorf 5427R.	2
tight, 14,000 fpm max / 20,817 x g fci max, 1 A-43-30-11 for Eppendon 3427N.	
Conductivity	
Conductivity Meter, benchtop, conductivity: 0.000 to 3000 mS/cm, cell constant: 0.001 to 199.9	
cm^-1, salinity: 0.1 to 80.0 ppt, temperature: -5 °C to +105 °C, Orion 3 Star.	1
Conductivity Cell, DuraProbe, 4 electrode, range: 1 µS/cm to 200 mS/cm, cell constant:	1
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0.475 cm^-1, epoxy/graphite, built-in ATC temperature sensor, Thermo Orion 013005MD.	1
Conductivity Meter, portable, conductivity: 0 to 199.9 mS/cm, cell constant: 0.07 to 14.99 cm^-	
1, salinity: 0.0 to 80.0 ppt, temperature: -5 °C to +105 °C, Orion 115.	1
Conductivity Cell, 2 electrode, range: 1 μS/cm to 20 mS/cm, cell constant: 1.0 cm^-1,	_
epoxy/platinum, w/ thermistor, Orion 011050.	2
Conductivity Salinity Temperature Meter, handheld, measures conductivity (0 to 200 mS/cm),	
salinity (0 to 80 ppt), and temperature (-5 °C to +95 °C), 10 ft cable, YSI 30.	1
Counter	
Counter, tally, hand held, 1 place, 4 digits (0 - 9999).	13
Counter, tally, laboratory, 1 place, 3 digits (0 - 999).	2
Counter, tally, laboratory, 2 place, 3 digits (0 - 999).	2
Counter, tally, laboratory, 5 place, 3 digits (0 - 999).	1
Counter, tally, laboratory, 5 place, 3 digits (0 - 999), with totalizing place.	1

Counter tally laboratory 9 place 2 digits (0, 000) with totalizing place	1
Counter, tally, laboratory, 8 place, 3 digits (0 - 999), with totalizing place.	I
Culmana	
Crimper	2
Crimper, hand operated, for 20 mm seals, Alltech 666020, Wheaton 224303, W225303.	3
Decapper, hand operated, for 20 mm seals, Wheaton W225353.	1
Decapper, plier, for 20 mm seals, Alltech 6663.	1
Dessicator	
Dessicator, vacuum, polycarbonate with plate, inside diameter 19.7 cm, plate diameter 19 cm,	
volume 0.2 cu ft, holds 29.9" Hg vacuum at room temp for 24 hrs, Scienceware F42020.	1
Dewar	
Dewar, storage, 1 L, for liquid nitrogen. Lid fastens with clips so can be used as a transportable	
vessel for use in the field.	1
Dewar, storage, 4 L, for liquid nitrogen.	2
Dewar, storage, 35 L, for liquid nitrogen, with sample canisters/cryo canes for sample storage.	6
Dewar, storage, 50 L, for liquid nitrogen.	5
Dewar, storage, 160 L, for liquid nitrogen.	8
DI Water	
Water Purification System, Aqua Solutions RODI-C-12AL, reverse osmosis + type I ultra-low TOC	
analytical grade DI system, installed in Aft Dry Lab.	1
Water Purification System, Aqua Solutions RODI-C-12AL, reverse osmosis + type I ultra-low TOC	
analytical grade DI system, installed in Hyrdo Lab.	1
Dispenser	
Dispenser, bottle top, 0.5 mL fixed vol, Barnstead/Thermolyne Repipet Jr., w/ glass and PP	
(polypropylene) bottles, for aqueous solutions and dilute acids/bases.	4
Dispenser, bottle top, 1 mL fixed vol, Hirschmann Ceramus 9312100. Glass bottle included.	2
Dispenser, bottle top, 0.2-1 mL, Hirschmann Ceramus 9312000. Glass bottle included.	8
Dispenser, bottle top, 0.4-2 mL, Hirschmann Ceramus 9322000. Glass bottle included.	3
Dispenser, bottle top, 1-5 mL, Hirschmann Ceramus 9332000, Brinkmann 022-22-010-1. Glass	
bottle included.	5
Dispenser, bottle top, 2-10 mL, Hirschmann Ceramus 9342000, Eppendorf Varispenser Plus 4961	
000.039. Glass bottle included.	3
Dispenser, bottle top, 5-25 mL, Brinkmann Chemsaver 022-22-120-5, Brinkmann 022-22-030-6.	
Glass bottle included.	3
Dispenser, bottle top, 5-30 mL, Hirschmann Ceramus 9352000. Glass bottle included.	<u>5</u>
Dispenser, bottle top, 10-60 mL, Hirschmann Ceramus 9362000. Glass bottle included.	6
Dispenser, bottle top, 0-0.5 mL, glass, Labindustries Repipet 3001/2AL.	1
Dispenser, bottle top, 0-0.5 mL, glass, Eabilidustries Repipet 3001/2AL. Dispenser, bottle top, 0-5 mL, glass, Barnstead/Thermolyne L/I Repipet.	<u>1</u>
Dispenser, Source top, o o mis, glass, barnstead/ mermoryne s/r Nepiper.	1
Filtration	
	22
Base, glass, 25 mm, glass frit support, with clamp.	32
Funnel, glass, 25 mm, 100 mL.	13
Funnel, glass, 25 mm, 1000 mL.	1

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Funnel, glass, 25 mm, 15 mL.	60
Funnel, glass, 25 mm, 150 mL	3
Funnel, glass, 25 mm, 300 mL.	23
Base, glass, 25 mm, SS screen support, with clamp.	8
Funnel, glass, 25 mm, 100 mL.	13
Funnel, glass, 25 mm, 1000 mL.	1
Funnel, glass, 25 mm, 15 mL.	60
Funnel, glass, 25 mm, 150 mL	3
Funnel, glass, 25 mm, 300 mL.	23
Base, glass, 47 mm, glass frit support, with clamp.	16
Funnel, glass, 47 mm, 1000 mL.	1
Funnel, glass, 47 mm, 300 mL.	27
Base, glass, 47 mm, SS screen support, with clamp.	15
Funnel, glass, 47 mm, 1000 mL.	1
Funnel, glass, 47 mm, 300 mL.	27
Base, polysulfone, 25 mm, twist-lock, autoclavable, Pall-Gelman 4203.	63
Funnel, polysulfone, 25 mm, 200 mL, twist-lock, autoclavable, Pall-Gelman 4203.	63
Base, polysulfone, 25 mm, twist-lock, autoclavable, Pall-Gelman 4204.	4
Funnel, polysulfone, 25 mm, 50 mL, twist-lock, autoclavable, Pall-Gelman 4204.	4
Base, polyphenylsulfone, 47 mm, magnetic, autoclavable, Pall-Gelman 4242.	7
Funnel, polyphenylsulfone, 47 mm, 300 mL, magnetic, autoclavable, Pall-Gelman 4242.	7
Base, polyphenylsulfone, 47 mm, magnetic, autoclavable, Pall-Gelman 4247.	6
Funnel, polyphenylsulfone, 47 mm, 150 mL, magnetic, autoclavable, Pall-Gelman 4247.	6
Base, polysulfone, 47 mm, with clamp, autoclavable, Nalgene DS0315-0047.	24
Funnel, polysulfone, 47 mm, 250 mL, with clamp, with polypropylene cover, autoclavable,	1
Nalgene DS0315-0047.	24
Base, polysulfone, 47 mm, Gravi-Seal, autoclavable, GE/Osmonics.	6
Funnel, polysulfone, 47 mm, 350 mL, Gravi-Seal, autoclavable, GE/Osmonics.	6
Manifold, vacuum, 3-place, PVC.	3
Manifold, vacuum, 3-place, stainless steel.	5
Manifold, vacuum, 6-place, PVC.	11
Manifold, vacuum, 6-place, stainless steel.	1
Manifold, vacuum, 6-place, aluminum.	1
Pump, vacuum, oil-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast	
DOA-P704-AA.	13
Vacuum Trap, carboy, 20 L, PP (polypropylene), heavy duty, with quick vent caps, Nalgene 2226-	
0050.	13
Filtration, Other	
Filter Holder, in-line, 47 mm, polypropylene, Millipore XX4304700. Fits 1/4" to 3/8" ID tubing.	
Silicone tubing recommended by Millipore.	6
Filter Holder, in-line, 47 mm, polycarbonate, Pall-Gelman 1119. Fits 1/4" ID tubing.	13
Filter Holder, vacuum, with funnel (500 mL) & receiver (1000 mL) for 47 mm membrane filters,	
polysulfone, autoclavable, Thermo Scientific Nalgene 300-4100. Fits 1/4" to 5/16" ID tubing.	4
polytements automatable, mentile deletime margene 300 1100.110 1/4 to 3/10 10 tubing.	·
Flowmeter	
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Flowmeter, mechanical, with standard rotor, for net sampling, 6 digit readout, w/ standard rotor, speed range approx. 1/5 knots to 15 knots, General Oceanics 2030R.	10
7	
Fluorometer	
luorometer, 10-AU, benchtop/field, water-tight case, digital, configured for discrete samples,	
preadsheet interface software, Turner Designs 10-AU-005.	3
Cuvette Adapter, for 25mm and 13mm tubes, Turner Designs 10-AU-030, 016-1050,	
10-229-1A.	6
Cuvette, tube, 13 mm x 100 mm, borosilicate glass, reusable, Turner Designs 10-031.	95
Cuvette, tube, 13 mm x 100 mm, borosilicate glass, screw top, reusable, Turner Designs	
10-031.	17
Cuvette, tube, 13 mm x 100 mm, quartz, reusable, Turner Designs 10-299.	6
Cuvette, tube, 25 mm x 150 mm, borosilicate glass, reusable, Turner Designs 10-028A.	57
Individual filters available upon request.	
Optical Kit, ammonium/CDOM, Turner Designs 10-303. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	3
Optical Kit, chlorophyll-a, extractive (acidification method) and chlorophyll in vivo, Turner	
Designs, 10-037R. Turner Designs optical kits include excitation and emission filters, lamp,	
and attenuator plate when required.	3
Optical Kit, chlorophyll-a, extractive (non-acidification method), Turner Designs, 10-040R.	
Turner Designs optical kits include excitation and emission filters, lamp, and attenuator	
plate when required.	5
Optical Kit, fluorescein, Turner Designs, 10-086R. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	1
Optical Kit, long wavelength (crude) oil, Turner Designs, 10-302R. Turner Designs optical	
kits include excitation and emission filters, lamp, and attenuator plate when required.	1
Optical Kit, rhodamine WT, Turner Designs, 10-041R. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	1
Solid Standard, secondary, red, for chlorophyll a and rhodamine analysis, Turner Designs	
10-AU-904.	7
luorometer, 10-AU, benchtop/field, water-tight case, digital, configured for continuous flow,	
preadsheet interface software, Turner Designs 10-AU-005.	
Continuous flow cuvette system, 25mm, Turner Designs 10-AU-020.	8
Continuous flow system, temperature compensation package, Turner Designs 10-AU-500.	2
Individual filters available upon request.	
Optical Kit, ammonium/CDOM, Turner Designs 10-303. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	3
Optical Kit, chlorophyll-a, extractive (acidification method) and chlorophyll in vivo, Turner	
Designs, 10-037R. Turner Designs optical kits include excitation and emission filters, lamp,	
and attenuator plate when required.	3
Optical Kit, chlorophyll-a, extractive (non-acidification method), Turner Designs, 10-040R.	
Turner Designs optical kits include excitation and emission filters, lamp, and attenuator	
plate when required.	5
Optical Kit, fluorescein, Turner Designs, 10-086R. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	1

Optical Kit, long wavelength (crude) oil, Turner Designs, 10-302R. Turner Designs optical	
kits include excitation and emission filters, lamp, and attenuator plate when required.	1
Optical Kit, rhodamine WT, Turner Designs, 10-041R. Turner Designs optical kits include	
excitation and emission filters, lamp, and attenuator plate when required.	1
Fluorometer, Trilogy, benchtop, color touch screen, for discrete samples, sample chamber	
accepts snap-in optical modules (modules accomodate 10 mm x 10 mm cuvettes), USB interface,	
w/ laptop and Trilogy spreadsheet interface software, Turner Designs 7200-002.	2
Cuvette Adapter, for 12 mm tubes, Turner Designs 016-0810.	2
Cuvette, square, 10 mm x 10 mm, borosilicate glass, reusable, 3.5 mL capacity,	
Turner Designs 7000-955.	2
Cuvette, square, 10 mm x 10 mm, methacrylate, disposable, 3.5 mL capacity, Turner	
Designs 7000-959.	300
Optical Module, for ammonium, w/ light source and filters, Turner 7200-067,	
methacrylate cuvettes, Turner 7000-959, recommended.	2
Optical Module, for chlorophyll-a extracted (acidification), w/ light source and filters,	
Turner 7200-040-W, use with glass or quartz only, Turner 7000-955 recommended.	2
Optical Module, for chlorophyll-a extracted (non-acidification), w/ light source and filters,	
Turner 7200-046-W, use with glass or quartz only, Turner 7000-955 recommended.	2
Optical Module, for chlorophyll-a in vivo, qualitative analysis only, w/ light source and	
filters, Turner 7200-043, methacrylate cuvettes, Turner 7000-959, recommended.	2
Solid Standard, secondary, red, adjustable, for use with chlorophyll, rhodamine,	
phycocyanin and phycoerythrin modules, Turner Designs 8000-952.	2
Freezer/Refrigerator	
Freezer, flammable storage, -20 °C to -12 °C, upright, 20.6 cu ft, Aft Dry Lab, Fisherbrand	
Isotemp, 20FFEEFSA, 13-986-149.	1
Freezer, flammable storage, -20 °C to -12 °C, upright, 20.6 cu ft, Aft Dry Lab, Fisherbrand	
Isotemp, 20FFEEFSA, 13-986-149.	1
Freezer, flammable storage, -20 °C to -12 °C, upright, 20.6 cu ft, Helo Hangar Workshop, Fisher	
Scientific Isotemp, 13-986-149.	1
Freezer, flammable storage, -20 °C to -12 °C, upright, 20.6 cu ft, Helo Hangar Workshop, Fisher	
Scientific Isotemp, Isotemp 149.	1
Freezer, ultra-low, -86 °C to -50 °C, upright, 19.4 cu ft, Aft Dry Lab, Thermo Scientific Revco RLE	
Series, RLE40086A.	1
Freezer, ultra-low, -86 °C to -50 °C, upright, 19.4 cu ft, Aft Dry Lab, Thermo Scientific Revco UxF	
Series, UXF40086D.	1
Freezer, ultra-low, -86 °C to -50 °C, chest, 20 cu ft, Aft Dry Lab, Thermo Scientific Revco CxF	
Series, ULT2090-10-D.	1
Freezer, ultra-low, -86 °C to -50 °C, chest, 20 cu ft, Aft Dry Lab, Thermo Scientific Revco CxF	
Series, ULT2090-10-D.	1
Refrigerator, +1 °C to +12 °C, flammable storage, undercounter, 5.5 cu ft, Hydro Lab, Thermo	
Scientific 05FREETSA.	1
Refrigerator, +1 °C to +12 °C, flammable storage, undercounter, 5.5 cu ft, Bio Lab, Thermo	
Scientific 05FREETSA.	1
Refrigerator, +1 °C to +12 °C, flammable storage, upright, 20.9 cu ft, Aft Dry Lab, Fisher Scientific	
inclination, it closize c, naminable storage, aprignt, 20.5 cu it. Alt biv lab. I isner scientific i	
Isotemp 20FREEFSA, 13-986-152.	1

Furnace	
Muffle Furnace, digital, programmable temperature control, 4 programs, 16 segments per	
program, +204 °C to +982 °C continuous (3 hours), +982 °C to +1093 °C (intermittent), ID 14" W x	
14" D x 14" H, 1.6 cu ft, 45L, Aft Dry Lab, Thermolyne 30400, Model F30438CM.	2
Homogenizer	
Homogenizer, w/ stand, variable speed range from 10,000 to 30,000 rpm, PRO Scientific, PRO	
250.	2
Generator, 10 mm diameter x 150 mm long saw tooth bottom, capacity 1.5 to 100 mL,	
13 m/s max peripheral speed in medium, PRO Scientific 02-10150.	1
Generator, 5 mm diameter x 75 mm long flat bottom, capacity 0.03 to 5.0 mL, 6 m/s max	
peripheral speed in medium, PRO Scientific 02-05075.	1
Homogenizer, ultrasonic, w/ stand, variable power output from 0-300 watts, timer 1-15 min,	
constant and pulse modes, 20 kHz output frequency, Omni International Omni-Ruptor 400.	1
Intermediate tip, titanium, 3/8" (9.5 mm) diameter, 4" length, 10 mL - 250 mL processing	
volume, Omni International OR-T-375.	1
Micro-tip, titanium, 5/32" (3.9 mm) diameter, 10.01" length, 350 μL -10 mL processing	
volume, Omni International OR-T-156.	1
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Hood	
Hood, fume absorber, portable, 31.5x25" working space, 87 cu ft/min, Captair Labx.	2
Filter for Acid Vapors, ErLab F4.BEP.	
Filter for Ammonia/Amine Vapors, ErLab F4.KP.	
Filter for Formaldehyde Vapors, Erlab F4.FP.	
Filter for Organic Vapors, Erlab F4.ASP.	
Hood, fume, 32" D x 48" W working area, installed in Bio Lab, Fisher Hamilton SafeAir.	2
Hood, vertical laminar flow workstation, bench model, extra long, interior dimensions 47" W x	
23" D x 18" H, w/ HEPA filters, ISO 5/class 100, AirClean Systems AC600 Series, AC648LF.	1
Filter (2 ea), HEPA for AirClean, 99.997% efficient at 0.3 μm, AirClean Systems ACFHEPA18.	
Hood, vertical laminar flow workstation, bench model, tall, interior dimensions 31" W x 23" D x	
27" H, w/ HEPA filter and UVTect Automatic Safety Controller, ISO 5/class 100, AirClean Systems	
AC600 Series, AC632TLFC.	2
Filter, HEPA for AirClean, 99.997% efficient at 0.3 μm, AirClean Systems ACFHEPA.	
Hood, vertical laminar flow workstation, bench model, interior dimensions 31" W x 23" D x 20"	
H, w/ HEPA filter, UVTect Automatic Safety Controller, and 254 nm short-wave UV light, ISO	
5/class 100, AirClean Systems AC600 Series, AC632LFUVC.	1
Filter, HEPA for AirClean, 99.997% efficient at 0.3 μm, AirClean Systems ACFHEPA.	-
Hood, laminar flow, Envirco Mac 10 HEPA, 2' x 4', 120 V, for Trace Metal Use.	2
Filter, HEPA for MAC 10, 9" thickness, standard filter, 99.97% efficient, 0.3 μm, Envirco	
69600S-001HAPXX (HEPA).	
Hood, snorkel, portable, ceiling mounted, 3-joint, Alsident System 100, Model 100-10585-3-5.	3
Hot Plate/Stirrer	
Hot Plate/Stirrer, 4" x 4", 30 °C to 500 °C, ceramic top, VWR Model 610-HPS Standard,	
12365-346.	1
	1

Hot Plate/Stirrer, 5" x 7", 5 °C to 550 °C, digital temperature display, digital speed	
display, ceramic top, Corning Model PC-420D, 6795-420.	1
Hot Plate/Stirrer, 7" x 7", 50 °C to 500 °C, digital temperature display, ceramic top, VWR	
VMS-C7.	1
Hot Plate/Stirrer, 7" x 7", 5 °C to 540 °C, digital temperature display, ceramic top,	
Barnstead/Thermolyne, Cimarec Model SP131325.	1
Hot Plate/Stirrer, 7" x 7", +5 °C above ambient to 500 °C, ceramic top, VWR NO97042-634.	1
Stir Plate, 5" x 7", ceramic top, Corning Model PC-410.	1
Stir Plate, 5" x 7", ceramic top, digital speed display, Corning Model PC-410D.	1
Stir Plate, 7" x 7", ceramic top, VWR/Henry Troemner LLC Model 620-S Standard, 12365-380.	1
Ice Maker	
Ice maker - shaved ice - installed in Hydro Lab.	1
Incubator	
Incubator, lab, upright, lighted, low-temp, -10 °C to +44 °C (with lights on), -12 °C to +44 °C (with	
lights off), +/- 0.5 °C, 300 μmol/m2/s, fluorescent lights, programmable day/night	
temperature/light control, 500 programmable steps, 37.2 cu ft interior space, 13.6 sq ft shelf	
space, Aft Dry Lab, Percival Model LT-41VLC8.	1
Incubator, lab, upright, lighted, low-temp, -10 °C to +44 °C (with lights on), -15 °C to +44 °C (with	
lights off), +/- 0.5 °C, 515 μmol/m2/s, LED lights, programmable day/night temperature/light	
control, 500 programmable steps, 29.7 cu ft interior space, 10.8 sq ft shelf space, Aft Dry Lab,	
Percival Model LT-36VLC8.	1
Irradiance	
Irradiance sensor, scalar, quantum, for PAR measurement, handheld, w/ 1.9 cm diameter	
spherical irradiance collector, calibrated for use in water or air, digital output, w/ laptop and	
software, Biospherical Instruments QSL-2100.	3
Datalogger, for LI-COR light sensors, handheld, 3 BNC connectors, digital, user-selectable	
sampling rates and logging intervals, 500 Hz max, 1GB memory, LI-COR LI-1500.	1
Quantum Light Sensor, for PAR measurement, 5 m cable w/ BNC connector, calibrated for	
use in air, LI-COR LI-190R, w/ mounting and leveling fixture (p/n 2003S).	1
Quantum Light Sensor, underwater, for PAR measurement, calibrated for use in air and	
water, LI-COR LI-192SA, w/ 3 m underwater cable (p/n 2222UWB-3), w/ BNC connector.	1
Light meter, digital, handheld, three-range: 0 to 200/2000/20,000 lux (0 to 20/200/2000 foot-	
candles), accuracy +/-3% of reading in two narrowest ranges; +/-5% of reading in widest range,	
max resolution 10 lux (1 foot-candle), General DLM2000.	2
Light Table	
Bench Light, UV-A, 1 x 365nm 15 watt BLB tube, Spectroline X-15A.	1
Bench Light, UV-A, 2 x 365nm 15 watt BLB tubes, Spectroline XX-15A.	1
Magnifier Lamp, 2X magnification, swing arm, Fisher Scientific 12-071-10.	1
Microscope	
Cold Stage, for compound scope, used with slides, Instec, Inc., STC200, TS62.	2
cold stage, for compound scope, used with sides, firster, file., 510200, 1302.	3
Cold Stage, for dissecting scope, used with petri dishes, Instec, Inc., STC200, TS62.	1

Hematocytometer, 1/400 SQ MM, 1/10 MM deep, Spotlite B3175.	1
Imaging, digital camera, Nikon, Coolpix 5000, w/ microscope adapters for Nikon Eclipse Ni-L,	_
Nikon SMZ1500, Zeiss Axioskop 50, Zeiss Standard 25, Leica/Wild M3C, Nikon SMZ1270.	1
Imaging, digital camera, SLR, Canon, EOS 60D, w/ microscope adapters for Nikon Eclipse Ni-L,	_
Nikon SMZ1500, Zeiss Axioskop 50, Zeiss Standard 25, Leica/Wild M3C, Nikon SMZ1270.	2
Speedlite, round head camera flash, 76 Ws output, rechargeable 2600 mAh Li-ion battery,	
480 full power shots on one charge, maximum 1.5 second recycling time, 1/8000s high	
speed sync (HSS), 330 degrees rotation, 120+ degrees tilt, Godox V1-C, for use with	
Canon EOS 60D Digital SLR. Comes with 3 ft long, TTL off-camera flash cord (Vello),	
and dual TTL hot shoe bracket (Vello).	2
Imaging, digital camera, high definition, 4k resolution, 8.0 Mp, w/ 1/1.8" Sony IMX334 CMOS	
sensor, VIEW4K, w/ microscope adapters for Leica/Wild M3C and Nikon SMZ1270.	2
Imaging, digital camera, Spot Insight, color mosaic, 12 Mp, w/ Sony Pregius CMOS sensor,	
IN42C12IR. Comes with computer, monitor and current software. Installed on Nikon Eclipse Ni-L.	2
Imaging, digital camera, Spot RT, monochrome cooled (-45 °C differential cooling w/o IR filter), 5	
Mp, w/ Sony Pregius CMOS sensor, RT39M5. Comes with computer, monitor and current	
software. Installed on Nikon Eclipse Ni-L.	2
Imaging, smart phone camera adapter, SnapZoom Universal Digiscoping Adapter.	2
Micrometer, stage, 0.01 mm, Mikro-Zubehor 3401 45.	1
Micrometer, stage, 0.02 mm - 0.1 mm - 1.0 mm = 22 mm, Leica 13K27970.	1
Micrometer, stage, 0.02 mm - 0.1 mm - 1.0 mm = 25 mm (25 mm scale: 0-20 mm in 1 mm	
increments; 20-24 mm in 0.1 mm increments, 24-25 mm in 0.02 mm increments), Klarmann	
	1
Rulings KR-812.	1
Microscope, compound, brightfield, darkfield, DIC, epi-fluorescence, phase contrast, polarizing,	2
Nikon Eclipse Ni-L.	2
Epi-Fluorescent Filter, DAPI, premium ET filter with sputtered coating, zero pixel shift	2
and blocking, Nikon 96360, Chroma 49000, installed on Nikon Eclipse Ni-L.	2
Epi-Fluorescent Filter, DAPI/FITC/TRITC, premium ET filter with sputtered coating, zero	_
pixel shift and blocking, Nikon 96383, Chroma 69000.	2
Epi-Fluorescent Filter, DAPI/Green/Orange #1 FISH, premium ET filter with sputtered	
coating, zero pixel shift and blocking, Nikon 70774913, Chroma 69013v2.	2
Epi-Fluorescent Filter, DsRed (TRITC/Cy3), premium ET filter with sputtered coating,	
zero pixel shift and blocking, Nikon 96364, Chroma 49005, installed on Nikon Eclipse Ni-L.	2
Epi-Fluorescent Filter, EGFP (enhanced green fluorescent protein) (FITC/Cy2), premium	
ET filter with sputtered coating, zero pixel shift and blocking, Nikon 96362, Chroma 49002,	
installed on Nikon Eclipse Ni-L.	2
Epi-Fluorescent Filter, FITC, Semrock FITC-2024B-NQF.	1
Epi-Fluorescent Filter, mCherry, Texas Red, premium ET filter with sputtered coating,	
zero pixel shift and blocking, Nikon 96365, Chroma 49008, installed on Nikon Eclipse Ni-L.	2
Epi-Fluorescent Filter, TRITC/Cy3 LP (Long Pass), AT filter, Nikon 96228, Chroma 19004,	
installed on Nikon Eclipse Ni-L.	2
Eyepiece, CFI UW 10X/25 (field number: 25), wide-field eyepiece, Nikon MAK30105,	
installed on Nikon Eclipse Ni-L.	4
Objective, 2X/0.10, INF/0-0.17, WD = 8.5, Plan Apo, Nikon MRD70020, installed on Nikon	
Eclipse Ni-L.	2
Objective, 4X/0.20, INF/0-0.17, WD = 20, Plan Apo, Nikon MRD70040, installed on Nikon	
Eclipse Ni-L.	2
Luipse IVI-L.	

Objective, 10X/0.45, INF/0.17, WD = 4. Plan Apo, Nikon MRD70170, installed on Nikon	
Eclipse Ni-L.	2
Objective, 20X/0.80, INF/0.17, WD = 0.8, Plan Apo, Nikon MRD70270, installed on Nikon	
Eclipse Ni-L.	2
Objective, 40X/0.95, INF/0.11-0.23, WD = 0.21, Plan Apo, Nikon MRD70470, installed	
on Nikon Eclipse Ni-L.	2
Objective, 60X/1.42 Oil, INF/0.17, WD = 0.15, Plan Apo, Nikon MRD71670, installed on	
Nikon Eclipse Ni-L.	2
Objective, 100X/1.45 Oil, INF/0.17, WD = 0.13, Plan Apo, Nikon MRD71970, installed on	
Nikon Eclipse Ni-L.	2
Objective, 4X/0.13, INF/-, WD = 17.2, Plan Fluor, Nikon MRH00045, installed on Nikon	
Eclipse Ni-L.	2
Objective, 10X/0.30/Ph1/DL, INF/1.2, WD = 15.2, Plan Fluor, Nikon MRH20105, installed	
on Nikon Eclipse Ni-L.	2
Objective, 20X/0.45/Ph1/ADM, INF/0-2, ELWD (Extra Long Working Distance),	_
WD = 8.2-6.9, Super Plan Fluor, Nikon MRH48230, installed on Nikon Eclipse Ni-L.	2
Objective, 40X/0.60/Ph2/ADM, INF/0-2, ELWD (Extra Long Working Distance),	
	2
WD = 3.6-2.8, Super Plan Fluor, Nikon MRH48430, installed on Nikon Eclipse Ni-L.	
Objective, 60X/0.70/Ph2/ADL, INF/0.1-1.3, ELWD (Extra Long Working Distance),	2
WD = 2.6-1.8, Super Plan Fluor, Nikon MRH48600, installed on Nikon Eclipse Ni-L.	2
Reticle, diameter 27 mm, grid, 10 mm x 10 mm, 100 squares total, 1 mm x 1 mm each,	_
Klarmann Rulings KR-406.	1
Reticle, diameter 27 mm, grid, 10 mm x 10 mm, 100 squares total, 1 mm x 1 mm each,	
top and left side of grid are numbered, Klarmann Rulings KR-406A.	1
Reticle, diameter 27 mm, grid, 10 mm x 10 mm, 100 squares total, 1 mm x 1 mm each.	
Also has a horizontal 10mm scale with 100 divisions above the grid. Klarmann Rulings	
KR-407.	1
Reticle, diameter 27 mm, scale 10 mm in 100 divisions (No. 0 thru 10), Klarmann Rulings	
KR-207.	1
Reticle, diameter 27 mm, scale, 10 mm in 100 divisions.	1
Microscope, compound, brightfield, darkfield, DIC, epi-fluorescence, phase contrast, polarizing,	
Zeiss Axioskop 50.	1
Epi-Fluorescent Filter, DAPI, Chroma/Carl Zeiss CZ702.	1
Epi-Fluorescent Filter, DAPI, Chroma/Carl Zeiss CZ709.	1
Epi-Fluorescent Filter, DAPI, Chroma/Carl Zeiss CZ902, installed on Zeiss Axioskop 50.	1
Epi-Fluorescent Filter, FITC, Chroma/Carl Zeiss CZ909, installed on Zeiss Axioskop 50.	1
Eyepiece, E-PL10X/20, (field number 20), for eyeglass wearers, Carl Zeiss 444232, installed	
on Zeiss Axioskop 50.	2
Filter, 18mm, green interference, for phase contrast, Zeiss 467859-9901.	1
Filter, 42mm, color balance, blue daylight, Zeiss 467851-0000, 467850-9901.	3
Filter, 42mm, heat dispersion, Zeiss 467828-0001, 467830-9902.	3
Objective, 10X/0.30/Ph1, INF/0.17, Plan Neofluar, Zeiss 440331, installed on Zeiss	
Axioskop 50.	1
Objective, 20X/0.50/Ph2, INF/0.17, Plan Neofluar, Zeiss 440341, installed on Zeiss	1
	4
Axioskop 50. Objective 40V/0.75 /Db2 INE/0.17 Plan Neeflyer 7sics 440251 installed on 7sics	1
Objective, 40X/0.75/Ph2, INF/0.17, Plan Neofluar, Zeiss 440351, installed on Zeiss	_
Axioskop 50.	1

Objective, 100X/1.30 Oil/Ph3, INF/0.17, Plan Neofluar, Zeiss 440481, installed on Zeiss	
Axioskop 50.	1
Reticle, diameter 26 mm, full crosshairs, Klarmann Rulings KR-301.	1
Reticle, diameter 26 mm, grid, 10 mm x 10 mm, 100 squares total, 1 mm x 1 mm each,	
top and left side of grid are numbered, Klarmann Rulings KR-406A.	2
Reticle, diameter 26 mm, scale 10 mm in 100 divisions (No. 0 thru 10), Klarmann Rulings	
KR-207.	1
Reticle, diameter 26 mm, scale 10 mm in 100 divisions (No. 0 thru 100), Klarmann Rulings	
KR-207A.	2
Stage, circular, rotating, Zeiss 453550.	1
Microscope, compound, brightfield, epi-fluorescence, phase contrast, Zeiss Standard 25.	1
Epi-Fluorescent Filter, DAPI, Semrock DAPI-1160B-000, installed on Zeiss Standard 25.	1
Filter, 18mm, green interference, for phase contrast, Zeiss 467859-9901.	1
Filter, 42mm, color balance, blue daylight, Zeiss 467851-0000, 467850-9901.	3
Filter, 42mm, heat dispersion, Zeiss 467828-0001, 467830-9902.	3
Objective, 10X/0.25/Ph1, 160/-, A-Plan, Zeiss 460418, installed on Zeiss Standard 25.	1
Objective, 20X/0.45/Ph2, 160/0.17, Plan, Zeiss 460633, installed on Zeiss Standard 25.	1
Objective, 40X/0.65/Ph2, 160/0.17, Achromat, Zeiss 4454383, installed on Zeiss	
Standard 25.	1
Objective, 40X/0.65/Ph2, 160/0.17, Plan, Zeiss 460733, installed on Zeiss Standard 25.	1
Objective, 40X/0.75/Ph2 W, 160/-, for water, Achromat, Zeiss 4462856.	1
Aicroscope, compound, brightfield, epi-fluorescence, phase contrast, Zeiss Standard 25.	1
Epi-Fluorescent Filter, DAPI/FITC/Acridine Orange, Zeiss, installed on Zeiss Standard 25.	1
	1
Filter, 18mm, green interference, for phase contrast, Zeiss 467859-9901.	
Filter, 42mm, color balance, blue daylight, Zeiss 467851-0000, 467850-9901.	3
Filter, 42mm, heat dispersion, Zeiss 467828-0001, 467830-9902.	3
Objective, 40X/0.65, 160/0.17, Plan, Zeiss 460700, installed on Zeiss Standard 25.	1
Objective, 40X/0.75/Ph2, 160/0.17, Zeiss, installed on Zeiss Standard 25.	1
Objective, 100X/1.25 Oil/Ph3, 160/0.17, Plan, Zeiss 461933, installed on Zeiss Standard 25.	1
Microscope, stereo, epi-fluorescence, brightfield, darkfield, Nikon SMZ1500, comes with 10X	_
eyepieces and 1X objective (details below).	1
Eyepiece, C-W10XA/22 (field number: 22), Nikon, installed on SMZ1500.	2
Illuminator, Nikon NI-150, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic	
light guides, LH-759 focusing lenses.	1
Objective, 1X, WD = 54mm, Plan Apo HR, Nikon, installed on SMZ1500.	1
Aicroscope, stereo, dissecting, parallel-optics type optical system, zoom ratio 12.7:1, zoom	
ange 0.63-8X (0.63X, 1X, 2X, 3X, 4X, 6X, 8X stops), total magnification with 10X eyepiece and 1X	
objective 6.3-80X, Nikon SMZ1270. Comes with P-DSL32 LED Diascopic Illumination Stand, 10X	
yepieces and 1X objective (details below).	2
Base, P-DSL32 LED Diascopic Illumination Stand, w/post, Nikon MND51520, installed on	
Nikon SMZ1270.	2
Eyepiece, C-W10XB/22 (field number: 22), wide-field eyepiece, Nikon MMK30102, installed	
on Nikon SMZ1270.	4
Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp,	
EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses.	9
Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck	

Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. Oven, forced convection, +10 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17.7"W x 17.7"D x 17.7"H, approx. 90L, Yamato DKN402. Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H,		
Reticle, diameter 25 mm, crosslines, each crossline (x and y axis) is 10 mm, in 100 divisions, Nikon MMM10110. 2 Microscope, stereo, dissecting, w/ 5 step (0.64X, 1.0X, 1.6X, 2.5X, 4.0X) magnification changer, Leica/Wild M3C. Comes with standard base, 10X eyepieces and 1.0X objective (details below). 4 Analyzer, rotating, 66mm diameter, Leica 10367929, for use with transmitted light base. 1 Base, standard, incident light base, w/ 320 mm post, Leica 424300, installed on M3C. 4 Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica TL4000 BFDF, 10450124. Eyepiece, 10X/218 (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/148 (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 wath halogen lamp, EEG323 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.3X, WD = 297 mm, Leica 370759. Objective, 0.5X, WD = 89 mm, PlanApo, Leica 445335, installed on M3C. 4 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 2.0X, WD = 27 mm, Leica 10422561. 2 Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 5 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 5 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-2708601, installed in Microscope Room under Nikon Eclipse Ni-L. 1 Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25		_
divisions, Nikon MMM10110. Microscope, stereo, dissecting, w/ 5 step (0.64X, 1.0X, 1.6X, 2.5X, 4.0X) magnification changer, Leica/Wild M3C. Comes with standard base, 10X eyepieces and 1.0X objective (details below). Analyzer, rotating, 66mm diameter, Leica 10367929, for use with transmitted light base.		2
Microscope, stereo, dissecting, w/ 5 step (0.64X, 1.0X, 1.6X, 2.5X, 4.0X) magnification changer, Leica/Wild M3C. Comes with standard base, 10X eyepieces and 1.0X objective (details below). Analyzer, rotating, 66mm diameter, Leica 10367929, for use with transmitted light base. Base, standard, incident light base, w/ 320 mm post, Leica 424300, Installed on M3C. Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica 11,4000 BFDF, 10450124. Eyepiece, 10X/21B (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. Objective, 0.5X, WD = 187 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.5X, WD = 49 mm, Leica 10422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. Wibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-233, installed in Microscope Room under Zeiss Axioskop 50. 1 vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-233, installed in Microscope Room under Zeiss Axioskop 50. 1 vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-233, installed in Microscope Room under Zeiss Axioskop 50. 1 vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-2708601, installed in Microscope Room under Deven, forced air, +40 °C above ambi		2
Leica/Wild M3C. Comes with standard base, 10X eyepieces and 1.0X objective (details below). Analyzer, rotating, 66mm diameter, Leica 10367929, for use with transmitted light base. 1 Base, standard, incident light base, w/ 320 mm post, Leica 424300, installed on M3C. Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica 144300 BFDF, 10450124. Eyepiece, 10X/21B (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, Bouth Carlo light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 1 Objective, 0.3X, WD = 187 mm, Leica 10422563. 2 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 442355, installed on M3C. 4 Objective, 1.0X, WD = 297 mm, Leica 10422562. Objective, 1.0X, WD = 297 mm, Leica 10422562. Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422562. Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, Leica 10422561. 2 Objective, 1.0X, WD = 20 mm, L	·	 I
Analyzer, rotating, 66mm diameter, Leica 10367929, for use with transmitted light base. Base, standard, incident light base, w/ 320 mm post, Leica 424300, installed on M3C. 4 Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica 114000 BFDF, 10450124. Eyepiece, 10X/218 (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 0 bjective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 2.0X, WD = 27 mm, Leica 10422562. 4 Objective, 2.0X, WD = 27 mm, Leica 10422561. 2 Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 6 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 c ut ft, installed in Bio Lab, VWR 1350FM. 2 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 18" H, 3.0 cu ft,		4
Base, standard, incident light base, w/ 320 mm post, Leica 424300, installed on M3C. Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica TL4000 BFDF, 10450124. Eyepiece, 10X/218 (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/148 (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445311. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 10422563. Objective, 0.5X, WD = 187 mm, Leica 10422563. Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. Objective, 2.0X, WD = 227 mm, Leica 10422561. Qbjective, 2.0X, WD = 227 mm, Leica 422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 6 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +6 °C above ambient to +200 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M V01218C-1. 1 1		
Base, transmitted light base, for brightfield/darkfield, illuminated, w/ 320 mm post, Leica TL4000 BFDF, 10450124. Eyepiece, 10X/21B (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 4 Objective, 0.5X, WD = 187 mm, Leica 10422563. 2 Objective, 0.5X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 2.0X, WD = 27 mm, Leica 10422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 5 Wibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-2708601, installed in Microscope Room under Nikon Eclipse Ni-L. Doven Oven, forced convection, +10 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, WWR 1350FM. 2 Oven, forced convection, +5 °C above ambient to +200 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17,7"W x 17.7"H, approx. 90L, yamato DKN402. 1 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 3.5 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M V01218C-1. 1 Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/-		
TL4000 BFDF, 10450124. Evepiece, 10X/218 (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23·1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 1 Objective, 0.5X, WD = 187 mm, Leica 10422563. 2 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.5X, WD = 49 mm, Leica 10422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 6 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, forced convection, +10 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210 **C, ID 17.7" W x 17.7" D x 17.7"H, approx. 90L, Yamato DKN402. Oven, gravity convection, +5 °C above ambient to +260 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1. 1 Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1.		-
Eyepiece, 10X/21B (field number: 21), wide-field eyepiece for eyeglass wearers, Leica 445111, installed on M3C. Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.3X, WD = 297 mm, Leica 370759. 1 Objective, 0.5X, WD = 187 mm, Leica 10422563. 2 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 2.0X, WD = 27 mm, Leica 422561. 2 Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 6 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, forced convection, +10 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17.7" W x 17.7"D x 17.7"H, approx. 90. Y, yamato DKN402. 1 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +5 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1. 1 Oven, vacuum, +6 °C abov		4
445111, installed on M3C. Evepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Evepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. Objective, 0.3X, WD = 297 mm, Leica 370759. Objective, 0.5X, WD = 187 mm, Leica 10422563. Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. Objective, 1.0X, WD = 89 mm, Leica 10422562. Objective, 2.0X, WD = 27 mm, Leica 42561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. Oven, forced air, +40 "C above ambient to +240 "C, uniformity +/- 0.9 "C @ 150 "C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. Oven, forced convection, +10 "C above ambient to 260 "C, distribution accuracy +/- 2.5 "C @ 210 "C, ID 17.7" W x 17.7" D x 17.7" H, approx. 90L, Yamato DKN402. Oven, gravity convection, +5 "C above ambient to +200 "C, uniformity +/- 4.0 "C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +40 "C to +260 "C, uniformity +/- 3.5 "C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1. 1 Oven, vacuum, +6 "C above ambient to +260 "C, uniformity +/- 3.5 "C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1.		<u> </u>
Eyepiece, 16X/14B (field number: 14), wide-field eyepiece for eyeglass wearers, Leica 445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. Objective, 0.5X, WD = 187 mm, Leica 10422563. Objective, 1.5X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.5X, WD = 49 mm, Leica 10422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-22708601, installed in Microscope Room under Nikon Eclipse Ni-L. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, forced convection, +5 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17.7"W x 17.7"D x 17.7"H, approx. 90L, Yamato DKN402. 1 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 19" W x 15" D x 18" H, 3.1 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. 1 Oven, gravity convection, +5 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M GO1390A-1.		8
445301. Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. 4 Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 1 Objective, 0.5X, WD = 187 mm, Leica 10422563. Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.5X, WD = 49 mm, Leica 10422562. 4 Objective, 2.0X, WD = 27 mm, Leica 422561. Cobjective, 2.0X, WD = 27 mm, Leica 422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. Wibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 3 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-22708601, installed in Microscope Room under Nikon Eclipse Ni-L. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, gravity convection, +5 °C above ambient to +200 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17."W x 17.7"D x 17.7"H, approx. 90L, Yamato DKN402. 1 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M G01390A-1. 1 Oven, gravity convection, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M G01390A-1.	·	
Eyepiece, 25X/9.5B (field number: 9.5), wide-field eyepiece for eyeglass wearers, Leica 445302. ### Add Standard		4
### Hand Branch Hand Branch		
Illuminator, Dolan-Jenner Fiber-Lite 181-1, MI-150F, MI-150RL, w/ 150 watt halogen lamp, EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. 9 Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. 4 Objective, 0.32X, WD = 297 mm, Leica 370759. 1 Objective, 0.5X, WD = 187 mm, Leica 10422563. 2 Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. 4 Objective, 1.5X, WD = 49 mm, Leica 10422562. 4 Objective, 2.0X, WD = 27 mm, Leica 422561. 2 Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. 6 Vibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. 9 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. 1 Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-2708601, installed in Microscope Room under Nikon Eclipse Ni-L. 1 Oven Oven, forced air, +40 °C above ambient to +240 °C, uniformity +/- 0.9 °C @ 150 °C, ID 18.25" W x 19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM. 2 Oven, gravity convection, +5 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210 °C, ID 17."W x 17."D x 17.7"H, approx. 90L, Yamato DKN402. 1 Oven, gravity convection, +6 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1.		4
EEG2823 dual gooseneck fiber optic light guides, LH-759 focusing lenses. Illuminator, LED, 6 watt cool light, variable intensity, w/ dual 23-1/4" long gooseneck illuminators (3 watts each) and intensity control box, AmScope LED-6W. Objective, 0.32X, WD = 297 mm, Leica 370759. Objective, 0.5X, WD = 187 mm, Leica 10422563. Objective, 1.0X, WD = 89 mm, PlanApo, Leica 445355, installed on M3C. Objective, 1.5X, WD = 49 mm, Leica 10422562. Objective, 2.0X, WD = 27 mm, Leica 10422561. Reticle, scale, 12 mm x 120 divisions, full crosshairs, Leica 376119. Wibration Free Slab/Platform, tabletop isolation platform, max 270 lbs @ 80 psi, 20" x 24" surface, Kinetic Systems Inc., Vibraplane Model 2210 Benchmate. Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-533, installed in Microscope Room under Zeiss Axioskop 50. Vibration Free Table, Micro-g vibration isolation table, Technical Manufacturing Corp 63-2708601, installed in Microscope Room under Nikon Eclipse Ni-L. Oven		
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°C, ID 17.7"W x 17.7"D x 17.7"H, approx. 90L, Yamato DKN402. 1 Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" 1 D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" 1 H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. 1 Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1. 1	19" D x 16.5" H, 4 cu ft, installed in Bio Lab, VWR 1350FM.	2
Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19" D x 28" H, 6.1 cu ft, VWR 1326. Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1. 1	Oven, forced convection, +10 °C above ambient to 260 °C, distribution accuracy +/- 2.5 °C @ 210	
D x 28" H, 6.1 cu ft, VWR 1326. 1 Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. 1 Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1. 1	°C, ID 17.7"W x 17.7"D x 17.7"H, approx. 90L, Yamato DKN402.	1
Oven, gravity convection, +40 °C to +260 °C, uniformity +/- 3 °C @ 100 °C, ID 19" W x 15" D x 18" H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1. 1	Oven, gravity convection, +5 °C above ambient to +200 °C, uniformity +/- 4.0 °C, ID 20" W x 19"	
H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1. Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1. 1	D x 28" H, 6.1 cu ft, VWR 1326.	1
Oven, vacuum, +6 °C above ambient to +260 °C, uniformity +/- 3.5 °C, ID 12" W x 18" D x 12" H, 1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1.		İ
1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1.	H, 3.0 cu ft, 85 L, Thermo/Lindberg/Blue M GO1390A-1.	1
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Oxygen Titrator	1.5 cu ft, 42.5 L, Thermo/Lindberg/Blue M VO1218C-1.	1
Oxygen Titrator		
	Oxygen Titrator	

Oxygen Titrator, Langdon automated amperometric. Comes as kit w/ burrette and stepper	
motor, dual platinum titration electrode (Accumet 13-620-123), stir plate, Socorex bottletop	
dispensers (0.25-2.0 mL, Calibrex 520.002; 1-10 mL, Calibrex 520.010; or equivalent), 1000 mL	
amber glass bottles, laptop and software, and other necessary items.	2
Sample Flasks, glass, 125mL, calibrated, Pyrex 5400.	144
Sumple Hastel Blass, 125m2, same acea, 1 years 1881	4
pH Meter	
pH Meter, benchtop, measures pH/mV/RmV/ORP/temperature, pH range -2.000 to	
20.000, resolution 0.1/0.01/0.001 pH, 1-5 point calibration, automatic (w/ ATC probe) or	
manual temperature compensation, Thermo Scientific, Orion Star A211.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 1 m cable, Thermo Scientific Orion	
ROSS Ultra 8107BNUMD. Temperature connector is compatible with the Orion Star	
A211, A221 and A321 meters to provide automatic temperature compensation.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 3 m cable, Thermo Scientific Orion	
ROSS Ultra 8107UWMMD. Temperature connector is compatible with the Orion	
Star A211, A221 and A321 meters to provide automatic temperature compensation.	5
pH Meter, portable, measures pH/mV/RmV/ORP/temperature, pH range -2.000 to	
20.000, resolution 0.1/0.01/0.001 pH, 1-5 point calibration, automatic (w/ ATC probe) or	
manual temperature compensation, Thermo Scientific, Orion Star A221.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 1 m cable, Thermo Scientific Orion	
ROSS Ultra 8107BNUMD. Temperature connector is compatible with the Orion Star	
A211, A221 and A321 meters to provide automatic temperature compensation.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 3 m cable, Thermo Scientific Orion	
ROSS Ultra 8107UWMMD. Temperature connector is compatible with the Orion	
Star A211, A221 and A321 meters to provide automatic temperature compensation.	5
pH Meter, portable, measures pH/mV/RmV/ORP/temperature, pH range -2.000 to	
20.000, resolution 0.1/0.01/0.001 pH, 1-5 point calibration, automatic (w/ ATC probe) or	
manual temperature compensation, Thermo Scientific, Orion Star A321. The A321 meter	
has the following additional features over the A221: Timed measurements, ability to	
save 10 methods, more memory for data storage, ability to save sample and user ID info,	
high/low limit alarm.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 1 m cable, Thermo Scientific Orion	
ROSS Ultra 8107BNUMD. Temperature connector is compatible with the Orion Star	
A211, A221 and A321 meters to provide automatic temperature compensation.	1
pH Electrode, pH/ATC triode, ROSS double junction, gel filled, pH range 0 - 14,	
epoxy body, BNC and Mini-DIN connectors, 3 m cable, Thermo Scientific Orion	
ROSS Ultra 8107UWMMD. Temperature connector is compatible with the Orion	-
Star A211, A221 and A321 meters to provide automatic temperature compensation.	5

pH Meter, benchtop, measures pH/mV/temperature, pH range 0.00 - 14.00, resolution 0.1, 0.01	
pH, 1-2 point calibration, digital LogR technology allows temperature compensated	
measurements without separate ATC probe, Thermo Scientific, Orion 320, Basic PerpHecT LogR.	2
pH Electrode, combination, Sure-Flow, refillable Ag/AgCl, pH range 0 - 14, BNC connector,	
Thermo Scientific, Orion 9165BNWP. If used with the Orion320 meter, digital LogR	
technology provides temperature compensation.	2
Pipettor	
Pipettor, adjustable volume, 0.2-2 μL, Gilson P2N.	1
Pipettor, adjustable volume, 0.5-10 μL, Eppendorf Research 10.	1
Pipettor, adjustable volume, 1-10 μL, Gilson P10, Gilson P10N.	6
Pipettor, adjustable volume, 2-20 μL, Gilson P20, Gilson P20N.	5
Pipettor, adjustable volume, 10-100 μL, Gilson P100, Gilson P100N, Eppendorf Reference 100.	5
Pipettor, adjustable volume, 20-200 μL, Gilson P200, Gilson P200N, Eppendorf Research 200.	4
Pipettor, adjustable volume, 200-1000 μL, Gilson P1000.	7
Pipettor, adjustable volume, 500-2500 μL, Eppendorf 4810/2244025-0, Autoclavable.	1
Pipettor, adjustable volume, 500-5000 μL, Eppendorf Research 5000.	1
Pipettor, adjustable volume, 1000-5000 μL, Gilson P5000.	4
Pipettor, adjustable volume, 1-10 mL, Gilson P10 mL, Eppendorf Research 10 mL.	3
Pipettor, pipette pump, manual roller wheel style, 2 mL, f/ serological pipets, Bel-Art Pipette	
Pump, 37897-0000.	1
Pipettor, pipette pump, manual roller wheel style, 10 mL, f/ serological pipets, Bel-Art Pipette	_
Pump, 37898-0000.	1
Pipettor, pipette pump, manual roller wheel style, 25 mL, f/ serological pipets, Bel-Art Pipette	_
Pump, 37899-0000.	1
Pipettor, pipet filler, manual ball style, 2 valve, 35 mL, rubber, red and black, f/ serological	_
pipets.	5
Pipettor, pipette controller, electronic, accepts 0.1 to 100 mL serological pipets, Eppendorf	_
Easypet 3, 443000018.	1
Pipettor, pipette controller, electronic, accepts 1 to 100 mL serological pipets, 3.3mL/sec,	
Drummond Pipet-Aid, 4-000-100.	2
Pipettor, repeater, 2-5000 μL, Eppendorf 4780, 22260006.	2
Pipettor, repeater, digital, 1 μL-10 mL, Eppendorf Repeater Plus, 22260201.	5
Pump	
Pump, aeration, aquarium air pump, assorted, with various sizes of air diffusing stones.	6
Pump, peristaltic, Masterflex C/L (motor, controller and head are one unit), variable speed,	
analog, 1 to 6 rpm, reversible, dual-channel pump head, 0.002 to 1.3 mL/min per channel,	
accepts eight Microbore Autoanalysis Tubing sizes, Masterflex 77120-52. Tubing size (ID) and	
flow rate (mL/min) at 6 rpm: 0.008"=0.01, 0.010"=0.02, 0.020"=0.07, 0.035"=0.21, 0.045"=0.34,	
0.056"=0.50, 0.081"=0.88, 0.110=1.3. Comes with 0.1099" ID x 0.1779" OD Tygon tubing,	
formulation R3603, Cole Parmer 95609-48.	1
Pump, peristaltic, Masterflex L/S drive (motor and controller are one unit; request head below),	
variable speed, digital, 0.02 to 100 rpm, reversible, dispense by volume or time, accepts 4 pump	
heads, Masterflex 07523-90, 07522-30. Note that flow rate depends on drive rpm, pump head	
and tubing size.	2
-	

Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mt/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex T7201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mt/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex T/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. 1 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 05728-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2		
0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 7200-62. Pump, peristaltic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-32. Pump, vacuum, oil-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast DOA-	Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump	
480, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 77200-62. 4 Pump, peristaltic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. 1 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. 16 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. 2 Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 17200-32. Pump, vacuum, hand-operated, 15 cc/stroke, w/o gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6131-0010. Pump, vacuum, hand-op	tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with	
Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in ml/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. 4 Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-32. 2 Pump, vacuum, hand-operated, 15 cc/stroke, w/o gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6131-0010. Pump, vacuum, hand-operated, 36 cc/stroke, w/o gauge,	0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-	
tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 77200-62. Pump, peristalitic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-32. Pump, vacuum, oli-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast DOA-P704-AA. 13 Pump, vacuum, hand-operated, 15 cc/stroke, w/ gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6130-0020, 6132-0020. 6 Radioisotope Instru	480, Masterflex 77201-62.	16
0.2-100 rpm drive): L/S 15: 0.033-170, L/S 24: 0.057-280, L/S 35: 0.077-380, L/S 36: 0.096-480, Masterflex 77200-62. 4 Pump, peristaltic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mL/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-32. Pump, vacuum, oil-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast DOA-P704-AA. 13 Pump, vacuum, hand-operated, 15 cc/stroke, w/ gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6131-0010. Radioisotope Instruments Bath, circulating, digital, -25 °C to +150 °C, stability +/- 0.01 °C, ID 8.8" x 9.4" x 6", 11.	Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump	
480, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S modular drive (motor and controller are separate; request head below), variable speed, 6 to 600 rpm, reversible, accepts 2 pump heads, Masterflex 07553-70. Note that flow rate depends on drive rpm, pump head and tubing size. 1 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ adjustable occlusion, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77201-62. 16 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-62. Pump, peristaltic, Masterflex L/S precision process drive with integrated open-head sensor (motor and controller are one unit; request head below), variable speed, digital, 6 to 600 rpm, reversible, accepts 2 pump heads, wash-down rated, Masterflex 07528-50. Integrated open head sensor stops the drive motor when pump head is opened. Note that flow rate depends on drive rpm, pump head and tubing size. 2 Peristaltic Pump Head, Masterflex L/S Easyload II, for High-Performance Precision pump tubing, w/ fixed occlusion, with open-head sensor, fits the following tubing sizes (flow rates in mt/min with 6-600 rpm drive): L/S 15: 10-1000, L/S 24: 17-1700, L/S 35: 23-2300, L/S 36: 29-2900, Masterflex 77200-32. 2 Pump, vacuum, oil-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast DOA-P704-AA. 13 Pump, vacuum, hand-operated, 15 cc/stroke, w/o gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6131-0010. 3 Pump, vacuum, hand-operated, 36 cc/stroke, w/o gauge, attains and holds vacuum of 25" Hg, fits 1/4" ID tubing (some tubing is supplied), Nalgene 6130-0020, 6132-0020. 6 Radioisotope Instruments Bath,	tubing, w/ fixed occlusion, fits the following tubing sizes (flow rates in mL/min with	
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Radioisotope Instruments Bath, circulating, digital, -25 °C to +150 °C, stability +/- 0.01 °C, ID 8.8" x 9.4" x 6", 11.3 L, Neslab RTE-10. For use with Radioisotopes only. Centrifuge, micro, non-refrigerated, variable speed up to 13,200 rpm / 16,110 x g rcf, timer to 99 min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		6
Bath, circulating, digital, -25 °C to +150 °C, stability +/- 0.01 °C, ID 8.8" x 9.4" x 6", 11.3 L, Neslab RTE-10. For use with Radioisotopes only. Centrifuge, micro, non-refrigerated, variable speed up to 13,200 rpm / 16,110 x g rcf, timer to 99 min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,	1/4 1D tubing (some tubing is supplied), Naigene 6130-0020, 6132-0020.	6
Bath, circulating, digital, -25 °C to +150 °C, stability +/- 0.01 °C, ID 8.8" x 9.4" x 6", 11.3 L, Neslab RTE-10. For use with Radioisotopes only. Centrifuge, micro, non-refrigerated, variable speed up to 13,200 rpm / 16,110 x g rcf, timer to 99 min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,	Padioisotono Instruments	
Neslab RTE-10. For use with Radioisotopes only. Centrifuge, micro, non-refrigerated, variable speed up to 13,200 rpm / 16,110 x g rcf, timer to 99 min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		
Centrifuge, micro, non-refrigerated, variable speed up to 13,200 rpm / 16,110 x g rcf, timer to 99 min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		_
min, Eppendorf 5415D. For use with Radioisotopes only. Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,	· ·	2
Rotor, fixed angle, 45°, 24-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, 13,200 rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		_
rpm max / 16,110 x g rcf max, F-45-24-11 for Eppendorf 5415D. For use with Radioisotopes only. Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		1
only. 2 Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		
Centrifuge, micro, refrigerated, -9 °C to +40 °C, variable speed up to 16,400 rpm / 25,000 x g rcf,		
	·	2
timer to 99 min, Eppendorf 5417R. For use with Radioisotopes only.		
	timer to 99 min, Eppendorf 5417R. For use with Radioisotopes only.	1

Rotor, fixed angle, 45°, 30-place x 1.5/2 mL microfuge tubes, conical, 11 mm bore, aerosol-	
tight, 14,000 rpm max / 20,800 x g rcf max, FA-45-30-11 for Eppendorf 5417R. For use with	
Radioisotopes only.	1
Dispenser, bottle top, 0.2-1 mL, Hirschmann Ceramus 9312000. Glass bottle included. For use	
with Radioisotopes only.	2
Dispenser, bottle top, 0.4-2 mL, Hirschmann Ceramus 9322000. Glass bottle included. For use	
with Radioisotopes only.	2
Dispenser, bottle top, 1-5 mL, Hirschmann Ceramus 9332000. Glass bottle included. For use with	
Radioisotopes only.	4
Dispenser, bottle top, 5-25 mL, Brinkmann 50-10-040-5. Glass bottle included. For use with	
Radioisotopes only.	1
Filtration base, glass, 25 mm, glass frit support, with clamp. For use with Radioisotopes only.	6
Funnel, glass, 25 mm, 1000 mL. For use with Radioisotopes only.	7
Funnel, glass, 25 mm, 300 mL. For use with Radioisotopes only.	6
Filtration base, polysulfone, 25 mm, twist-lock, autoclavable, Pall-Gelman 4203. For use with	
Radioisotopes only.	6
Funnel, polysulfone, 25 mm, 200 mL, twist-lock, autoclavable, Pall-Gelman 4203. For use	
with Radioisotopes only.	6
Hood, fume, 125 lfm, installed in Radioisotope Van. For use with Radioisotopes only.	1 per Van
Liquid Scintillation Counter, Perkin Elmer Tri-Carb B2910TR, w/ laptop and QuantaSmart	· .
software. Computer controlled, for detecting low activity alpha, beta and gamma radioactivity.	
Installed in Radioisotope Van.	1 per Van
Rack Adapters, vented microtube holders, for 1.5 mL tubes, 11 mm diameter, Perkin Elmer	
6013402. For use with racks for 20 mL scintillation vials.	300
Racks for 20 mL scintillation vials, each rack holds 12 vials.	32
Racks for 7 mL scintillation vials, each rack holds 18 vials.	57
Standards, quenched, 14C, set of 10, 5 mL, Perkin Elmer 6007601A.	1
Standards, quenched, 3H, set of 10, 5 mL, Perkin Elmer 6007600A.	1
Standards, unquenched, set of 3 (blank, 3H, 14C), 15 mL, Perkin Elmer 6008500A.	2
Manifold, vacuum, 3-place, stainless steel. For use with Radioisotopes only.	3
Manifold, vacuum, 6-place, PVC. For use with Radioisotopes only.	1
Pipettor, adjustable volume, 0.5-10 μL, VWR VE 10. For use with Radioisotopes only.	 1
Pipettor, adjustable volume, 1-10 μL, Gilson P10. For use with Radioisotopes only.	3
Pipettor, adjustable volume, 2-20 μL, Gilson P20. For use with Radioisotopes only.	2
Pipettor, adjustable volume, 10-100 μL, Gilson P100. For use with Radioisotopes only.	2
Pipettor, adjustable volume, 20-200 μ L/50-200 μ L, Gilson P200. For use with Radioisotopes only.	3
Pipettor, adjustable volume, 200-1000 μL, Gilson P1000, 100-1000μL, VWR VE 1000. For use	
with Radioisotopes only.	5
Pipettor, adjustable volume, 500-5000 μL/1000-5000μL, Gilson P5000. For use with	
Radioisotopes only.	4
Pipettor, adjustable volume, 1-10 mL, Gilson P10 mL. For use with Radioisotopes only.	1
Pipettor, repeater, digital, 1 µL-10 mL, Eppendorf Repeater Plus, 22260201. For use with	<u> </u>
Radioisotopes only.	1
Pipettor, repeater, 2-5000 μL, Eppendorf 4780, 22260006. For use with Radioisotopes only.	3
Pump, vacuum, oil-less, diaphragm, max vacuum 25.5" Hg, max pressure 60 psi, w/ gauges, Gast	
i amp, vacuum, on-iess, diapinagm, max vacuum 23.3 ng, max pressure oo psi, w/ gauges, dast	
DOA-P104-AA, Gast DOA-P704-AA. For use with Radioisotopes only.	2

Refrigerator, +1 °C to +12 °C, flammable storage, undercounter, 5.5 cu ft, Thermo Scientific	
05FREETSA, installed in Radioisotope Van. For use with Radioisotopes only.	1 per Van
Shaker, orbital, 4 mm orbit, digital, 80 to 800 rpm, timer 1 - 599 min or continuous, 10" x 12"	
platform, IKA KS 130 Control. For use with Radioisotopes only.	3
Platform, wooden. For use with Radioisotopes only.	
Stir Plate, 10" x 10", ceramic top, Corning Model PC-610. For use with Radioisotopes only.	1
Vacuum Trap, carboy, 20 L, PP (polypropylene), heavy duty, with quick vent caps, Nalgene 2226-	
0050. For use with Radioisotopes only.	
Vortex, various models. Fisher Scientific 232, variable speed; Scientific Industries Genie 2, G-560,	
G-560/S8223-1, variable speed. For use with Radioisotopes only.	3
Refractometer	
Refractometer, clinical, handheld, temperature compensated, Schuco 5711-2021.	1
Refractometer, salinity, handheld, temperature compensated, 0-160 ppt, Reichert-Jung (Leica)	
10419.	1
Refractometer, salinity, handheld, temperature compensated, 0-100 ppt, VWR 12777-992, Sper	
Scientific 300011.	2
Regulators	
CGA 346 for breathing air, double stage.	2
CGA 320 for carbon dioxide, double stage.	2
CGA 350 for hydrogen, double stage.	2
CGA 590 for industrial air, double stage.	4
CGA 580 for inert gases, nitrogen, helium, double stage.	8
CGA 540 for oxygen, double stage.	1
CGA 510 for propane, double stage.	1
correction proparity additional stage.	-
Salinometer	
Salinometer, w/ tubing, stoppers, laptop and software, and other necessary items.	
Measurement range 0.004 to 76 mS/cm, 0.0001:1.15 conductivity ratio; accuracy +/- 0.003	
equivalent PSU; resolution 0.0003 mS/cm @ 15 °C and 35 PSU, 0.0003 equivalent PSU. Guildline	
Instruments, Portasal, 8410A.	3
External Sample Pump, peristaltic, w/ tubing, Guildine Instruments, 84105.	6
Sample Bottles, 250 mL, square, glass, w/ caps and inserts.	288
Sample Bottles) 250 mz, square, glass, w caps and mocres.	200
Shaker	
Shaker, orbital, 19 mm orbit, digital, 15 to 500 rpm, timer 1 sec - 160 hrs, 13" x 11" platform,	
VWR 3500 Advanced, 89032-096.	1
Platform, 13" x 11", universal, stainless steel, VWR 89027-702.	1
Platform, 13" x 13", w/ holders for 12 x 250 mL flasks, VWR 97003-618.	1
Platform, 13" x 13", w/ holders for 16 x 125 mL flasks, VWR 97003-616.	1
1. 188.5.111, 13 × 13 ; W; 11518613 101 10 × 123 1111 118313; V VVII 37003 010.	*
Sieve	
Sieve, 3" diameter, 25 μm mesh, No. 500, stainless steel.	2
Sieve, 3" diameter, 38 μm mesh, No. 400, stainless steel.	3
Sieve, 3" diameter, 63 μm mesh, No. 230, stainless steel.	1
oleve, σ alameter, σο μιπ mesh, ivo. 200, stalliess steel.	т

Sieve, 3" diameter, 125 μm mesh, No. 120, stainless steel.	2
Sieve, 3" diameter, 150 μm mesh, No. 100, brass.	1
Sieve, 3" diameter, 212 μm mesh, No. 70, brass.	1
Sieve, 3" diameter, 250 μm mesh, No. 60, brass.	1
Sieve, 3" diameter, 250 μm mesh, No. 60, stainless steel.	1
Sieve, 3" diameter, 500 μm mesh, No. 35, stainless steel.	1
Sieve, 3" diameter, 1.00 mm mesh, No. 18, stainless steel.	2
Sieve, 3" diameter, 2.00 mm mesh, No. 10, stainless steel.	2
Sieve, 3" diameter, top and bottom, brass.	1
Sieve, 8" diameter, 25 μm mesh, No. 500, stainless steel.	1
Sieve, 8" diameter, 38 μm mesh, No. 400, stainless steel.	2
Sieve, 8" diameter, 63 μm mesh, No. 230, brass.	2
Sieve, 8" diameter, 63 μm mesh, No. 230, stainless steel.	2
Sieve, 8" diameter, 125 μm mesh, No. 120, brass.	1
Sieve, 8" diameter, 125 μm mesh, No. 120, stainless steel.	1
Sieve, 8" diameter, 150 μm mesh, No. 100, brass.	1
Sieve, 8" diameter, 250 μm mesh, No. 60, brass.	3
Sieve, 8" diameter, 250 μm mesh, No. 60, stainless steel.	1
Sieve, 8" diameter, 300 μm mesh, No. 50, stainless steel.	2
Sieve, 8" diameter, 425 μm mesh, No. 40, brass.	1
Sieve, 8" diameter, 500 μm mesh, No. 35, brass.	1
Sieve, 8" diameter, 500 μm mesh, No. 35, stainless steel.	1
Sieve, 8" diameter, 600 μm mesh, No. 30, brass.	1
Sieve, 8" diameter, 859 μm mesh, No. 20, brass.	1
Sieve, 8" diameter, 1.00 mm mesh, No. 18, brass.	2
Sieve, 8" diameter, 1 mm mesh, No. 18, stainless steel.	1
Sieve, 8" diameter, 1.18 mm mesh, No. 16, brass.	1
Sieve, 8" diameter, 2.00 mm mesh, No. 10, brass.	2
Sieve, 8" diameter, 2.36 mm mesh, No. 8, brass.	1
Sieve, 8" diameter, 3.35 mm mesh, No. 6, brass.	1
Sieve, 8" diameter, 8.0 mm (5/16") mesh, stainless steel.	1
Sieve, 12" diameter, 1.0 mm mesh, No. 18, brass.	1
Sieve, 12" diameter, 1 mm mesh, No. 18, stainless steel.	1
Sieve, 12" diameter, 4 mm mesh, No. 5, stainless steel.	1
Spectrophotometer	
Spectrophotometer, Lambda 365+, UV/VIS, dual-beam optics, variable spectral bandwidth	1
capability 0.5 to 20 nm, wavelength range 190 to 1100 nm, w/ computer and software, Perkin	
Elmer N4100022.	1
Cell changer, 8-position, water-jacketed (requires external bath for sample temperature	1
control), for 10 mm pathlength cells, Perkin Elmer N4101006.	1
Cell, 10 mm pathlength, UV Quartz Suprasil, reusable, 3.5 mL, PTFE lid, Perkin Elmer	1
B0631009.	1
Cell, 10 mm pathlength, UV Quartz Suprasil, reusable, 3.5 mL, PTFE stopper, Perkin Elmer	1
B0631027.	1
•	

Integrating Sphere, high sensitivity 50 mm transmission-reflectance accessory, spectral	
range 230~1100 nm (UV and visible), for measuring diffuse reflectance (specular component	
included – SCI), total transmittance or hemispherical transmittance, and performing color	
analysis. Recommended for solid color analysis. Perkin Elmer N4100219.	1
Integrating Sphere, powder cell holder kit, for reflectance measurement of paste and	
powder samples. Includes a powder cell, two quartz windows for trapping light, and two	
quartz caps for the white standard. Perkin Elmer N4101049.	1
Integrating Sphere, standard, white.	2
Spectrophotometer, USB UV/VIS absorbance spectrophotometer system (USB2000	
Spectrometer with USB-ISS-UV/VIS light source and integrated 1 cm cuvette holder), 200-1100	
nm, w/ laptop and software, Ocean Optics ChemUSB2-UV/VIS.	2
Cell Holder, single, adjustable 10-100 mm pathlength, accommodates filters up to 2 mm	
thickness, Ocean Optics CUV-VAR, no temperature control.	2
Cell Holder, single, cylindrical, 100 mm pathlength, temp controlled with additional water	
bath.	2
Cell Holder, single, square, 10 mm pathlength, filter slot accommodates filters up to 1/4"	
thickness, Ocean Optics CUV-UV, temp controlled with additional water bath requested	
separately.	2
Cell, 10 mm pathlength, Spectrosil Far UV quartz windows, reusable, 170 to 2700 nm,	
1.4 mL volume, semi-micro, black masked, PTFE stopper, Starna Cells 29B-Q-10.	2
Cell, cylindrical long pathlength, 100 mm pathlength, Spectrosil quartz or equivalent	
windows, reusable, 170 to 2700 nm, 28.2 mL volume, PTFE stoppers (2 ea), Starna	
	1
Cells 34-Q-100.	1
Cell, flow-through, 10 mm light path, Quartzglass Suprasil, reusable, 0.08 mL volume,	
Hellma Analytics 178.710.QS.	1
Cell, flow-through, 10 mm pathlength, Spectrosil Far UV quartz windows, reusable,	
170 to 2700 nm, 0.420 mL volume, wide aperture, short window, black masked,	
Starna 583.65.65-Q-10/Z15.	2
Cell, rectangular, 100 mm pathlength, quartz, reusable, Far UV, 170 to 2200 nm, 7.0 mL	
volume, open top, PTFE lid, Spectrocell ML-3100.	2
Thermometer	
Thermometer, analog, blue spirit, -100C to +50C, 1 °C division, 76 mm immersion, Fisherbrand	
13-201-521.	1
Thermometer, analog, red spirit, kerosene, -100 °C to +50 °C, 1 °C division, total immersion.	1
Thermometer, analog, green spirit, -35C to +50C, 1 °C division, 76 mm immersion, H-B	
Envirosafe 20509, NIST Traceable.	1
Thermometer, analog, blue spirit, -35 °C to +50 °C, 1 °C division, 76 mm immersion, Fisher 15-	
160-30.	1
Thermometer, analog, blue spirit, -10 °C to +50 °C, 0.5 °C division, 76 mm immersion, Fisher 15-	
	1
171-10.	1
Thermometer, analog, blue spirit, -1 °C to +51 °C, 0.2 °C division, 76 mm immersion, Ertco 1003-	_
3BLS.	1
Thermometer, analog, green spirit, -1C to +61C, 0.1 °C division, 76 mm immersion, H-B	
Envirosafe 20527, NIST Traceable.	2
Thermometer, analog, green spirit, -20 °C to +110 °C, 1 °C division.	1
	-

Thermometer, analog, blue spirit, kerosene, -20 °C to +110 °C, 1 °C division, 76 mm immersion. Thermometer, analog, blue spirit, -20C to +110C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-644. Thermometer, analog, blue spirit, -20 °C to +110 °C, 1 °C division, 76mm immersion, Fisher. Thermometer, analog, red spirit, -20 °C to +150 °C, 1 °C division, total immersion. Thermometer, analog, blue spirit, -10 °C to +150 °C, 1 °C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisher brand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	1 1
Thermometer, analog, blue spirit, -20°C to +110°C, 1°C division, 76 mm immersion, Fisherbrand 13-201-644. Thermometer, analog, blue spirit, -20°C to +110°C, 1°C division, 76mm immersion, Fisher. Thermometer, analog, red spirit, -20°C to +150°C, 1°C division, total immersion. Thermometer, analog, blue spirit, -10°C to +150°C, 1°C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10°C to +260°C, 1°C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30°F to +120°F, 2°F division, Fisher 15-021-5°C. Thermometer, digital, platinum resistance, waterproof, -180°C to +240°C, 0.001°C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200°C to +1300°C, 0.1°C resolution, accuracy +/- 0.3°C, measures in both °C and °F, w/ type K beaded probe (-40°C to +250°C continuous or +300°C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20°C to +500°C, 0.2°C and °F resolution, accuracy +/- 2°C to	1
13-201-644. Thermometer, analog, blue spirit, -20 °C to +110 °C, 1 °C division, 76mm immersion, Fisher. Thermometer, analog, red spirit, -20 °C to +150 °C, 1 °C division, total immersion. Thermometer, analog, blue spirit, -10 °C to +150 °C, 1 °C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	_
Thermometer, analog, blue spirit, -20 °C to +110 °C, 1 °C division, 76mm immersion, Fisher. Thermometer, analog, red spirit, -20 °C to +150 °C, 1 °C division, total immersion. Thermometer, analog, blue spirit, -10 °C to +150 °C, 1 °C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	
Thermometer, analog, red spirit, -20 °C to +150 °C, 1 °C division, total immersion. Thermometer, analog, blue spirit, -10 °C to +150 °C, 1 °C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	2
Thermometer, analog, blue spirit, -10 °C to +150 °C, 1 °C division, total immersion, Fisher 15-160-35. Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	3
Thermometer, analog, blue spirit, -10C to +260C, 1 °C division, 76 mm immersion, Fisherbrand 13-201-555. Thermometer, analog, red spirit, -30 °F to +120 °F, 2 °F division, Fisher 15-021-5C. Thermometer, digital, platinum resistance, waterproof, -180 °C to +240 °C, 0.001 °C and °F resolution, measures in both °C and °F, w/ integrated probe, Guildline 9540. Thermometer, digital, K, waterproof, -200 °C to +1300 °C, 0.1 °C resolution, accuracy +/- 0.3 °C, measures in both °C and °F, w/ type K beaded probe (-40 °C to +250 °C continuous or +300 °C short-term) w/ 4 ft cable, traceable to NIST Standards, Fisherbrand Traceable 15-078-186. Accepts all type K thermocouple probes. Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	1
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Thermometer, gun, infrared, 8:1, -20 °C to +500 °C, 0.2 °C and °F resolution, accuracy +/- 2 °C to	
	4
+100 °C and +/- 2% above, measures in both °C and °F, Sper Scientific 800102.	
	2
Timer	
Timer, digital, 1 channel, 10 hour, 1 second resolution, 0.01% accuracy, traceable to NIST	
Standards, Fisherbrand Traceable 06-662-50.	7
Tissue Grinder	
Tissue grinder, 10 mL, Wheaton USA.	1
Vortex	
Vortex, various models. Scientific Industries Genie 1, SI-0136, single speed; VWR Analog Vortex	
Mixer, 10153-838, variable speed.	2
Head set for large samples, for beakers, flasks, and large tubes, for Vortex Genie. Consists	
of recessed platform w/ elastic bands, tube foam inserts for tubes w/ diameters from 9 mm	
to 37 mm. Scientific Industries H302.	2