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#	Item Description / Product Class	Qty or Est. Use	Manufacturer / Supplier	Product Name/Description	Prod/Cat Num	Unit Count-Amount / Pkg Type	Last Proforma or Cat Price	Local Vendor	Comment
Personal Protection / Safety									
1-1	Goggles, chemical splash	12 pk	Fisher Scientific	Fisherbrand Chemical Splash Goggles	19-181-504	1 ea, 12/pk	\$8 , \$94		
				Fisherbrand Impact Goggles	19-181-503	1 ea, 12/pk	\$9 , \$86		
1-2	Gloves, exam gloves		Fisher Scientific	Fisherbrand* Powder-Free Nitrile Exam Gloves	19-130-1597B	small 100/pk, 10 pk	\$26, \$223		
					19-130-1597C	med 100/pk, 10 pk	\$26, \$223		
					19-130-1597D	large 100/pk, 10 pk	\$26, \$223		
1-3	Gloves, heat resistant	1	Fisher Scientific	Wells Lamont* Industrial Extra-Heavyweight Terry Cloth Gloves	19-013-299	12 XL	\$97		
1-4	Lab bench absorbent paper (Benchkote)	2	Fisher Scientific	Fisherbrand* Surface Protectors 36inX164ft roll	14-666-302	1 roll	\$292		
Solids and Liquids Handling and Transfer									
2-1	fixed volume pipettors	2	Fisher Scientific	Fbrand Finnpiptette II 1 µl fixed volume	14-487-65	1 ea	\$158		
		2		Fbrand Finnpiptette II 2 µl fixed volume	14-487-66	1 ea	\$158		
		2		Fbrand Finnpiptette II 5 µl fixed volume	14-487-67	1 ea	\$158		
		2		Fbrand Finnpiptette II 10 µl fixed volume	14-487-68	1 ea	\$158		
		2		Fbrand Finnpiptette II 20 µl fixed volume	14-487-69	1 ea	\$158		
		2		Fbrand Finnpiptette II 25 µl fixed volume	14-487-70	1 ea	\$158		
		2		Fbrand Finnpiptette II 50 µl fixed volume	14-487-71	1 ea	\$158		
		2		Fbrand Finnpiptette II 100 µl fixed volume	14-487-72	1 ea	\$158		
		1		Fbrand Finnpiptette II 200 µl fixed volume	14-487-73	1 ea	\$158		
		1		Fbrand Finnpiptette II 250 µl fixed volume	14-487-74	1 ea	\$158		
		3		Fbrand Finnpiptette II 500 µl fixed volume	14-487-75	1 ea	\$158		
		3		Fbrand Finnpiptette II 1000 µl fixed volume	14-487-76	1 ea	\$158		
		1		Fbrand Finnpiptette II 2000 µl fixed volume	14-487-77	1 ea	\$158		
		1		Fbrand Finnpiptette II 3000 µl fixed volume	14-487-78	1 ea	\$158		
		2		Fbrand Finnpiptette II 5000 µl fixed volume	14-487-79	1 ea	\$158		
		1		Fbrand Finnpiptette II 10 ml fixed volume	14-487-80	1 ea	\$158		
2-2	variable setting pipettors	3		Fbrand Finnpiptette II 0.2 to 2 µl adjustable volume	21-377-814	1 ea	\$245		
		1		Fbrand Finnpiptette II 0.5 to 10 µl (micro) adj vol	21-377-815	1 ea	\$245		
		3		Fbrand Finnpiptette II 0.5 to 10 µl adjustable volume	21-377-816	1 ea	\$245		
		3		Fbrand Finnpiptette II 2 to 20 µl adjustable volume	21-377-817	1 ea	\$245		
		2		Fbrand Finnpiptette II 5 to 50 µl adjustable volume	21-377-818	1 ea	\$245		
		3		Fbrand Finnpiptette II 10 to 100 µl adjustable volume	21-377-819	1 ea	\$245		
		2		Fbrand Finnpiptette II 20 to 200 µl adjustable volume	21-377-820	1 ea	\$245		
		3		Fbrand Finnpiptette II 100 to 1000 µl adjustable volume	21-377-821	1 ea	\$245		
				Fbrand Finnpiptette II 200 to 1000 µl adjustable volume	21-377-822	1 ea	\$245		
		1		Fbrand Finnpiptette II 1 to 5 ml adjustable volume	21-377-823	1 ea	\$245		
		1		Fbrand Finnpiptette II 2 to 10 ml adjustable volume	21-377-824	1 ea	\$245		
		2	Gilson	Pipetman P2, 0.2 to 2 µl	F144801	1 ea, >5	\$316, \$300/ea		
		2		Pipetman P10, 1 to 10 µl	F144802	1 ea, >5	\$316, \$300/ea		
		3		Pipetman P20, 2 to 20 µl	F123600	1 ea, >5	\$280, \$266/ea		
		3		Pipetman P100, 20 to 100 µl	F123615	1 ea, >5	\$280, \$266/ea		
		3		Pipetman P200, 50 to 200 µl	F123601	1 ea, >5	\$280, \$266/ea		
		3		Pipetman P1000, 200 to 1000 µl	F123602	1 ea, >5	\$280, \$266/ea		
		1		Pipetman P5000, 1000 to 5000 µl	F123603	1 ea, >5	\$316, \$300/ea		
		1		Pipetman P10 mL, 1 mL to 10 mL	F161201	1 ea, >5	\$316, \$300/ea		
2-3	multichannel pipetter, manual	1	Fisher	Fbrand Finnpiptette II Digital 8-cha , 0.5-10 ul	21-377-825	1 ea	\$612		
		1		Fbrand Finnpiptette II Digital 8-cha , 5-50 ul	21-377-827	1 ea	\$612		
		1		Fbrand Finnpiptette II Digital 8-cha , 50-300 ul	21-377-829	1 ea	\$612		
				Fbrand Finnpiptette II Digital 12-cha , 0.5-10 ul	21-377-826	1 ea	\$760		
				Fbrand Finnpiptette II Digital 12-cha , 5-50 ul	21-377-828	1 ea	\$760		
				Fbrand Finnpiptette II Digital 12-cha , 50-300 ul	21-377-830	1 ea	\$760		

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2-4	multichannel pipettor, electronic		Fisher	Matrix Hybrid Multichan Pipettors, 8-chan, 0.5-12.5 ul	14-387-140	1 ea	\$798		
				Matrix Hybrid Multichan Pipettors, 8-chan, 20-300 ul	14-387-142	1 ea	\$798		
				Matrix Hybrid Multichan Pipettors, 12-chan, 0.5-12.5 ul	14-387-143	1 ea	\$901		
				Matrix Hybrid Multichan Pipettors, 12-chan, 2-30 ul	14-387-144	1 ea	\$901		
				Matrix Hybrid Multichan Pipettors, 12-chan, 20-300 ul	14-387-145	1 ea	\$901		
2-5	repetitive pipettor, manual		USA Scientific	Manual Repeating Pipet	4736-8025				
			Fisher	Fisherbrand Repeating Pipetter	13-683-63	1 ea	\$326		
		1		BRAND* HandyStep* Repeating Pipetter	03-837-30	1 ea	\$411		
2-6	repetitive pipettor 0.5 ml pipet tip 10/20/30/40/50 ul		USA Scientific	0.5 ml positive displacement tip	4770-0050				
		1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-362	100/pk	\$122		
2-7	repetitive pipettor 1.25 ml pipet tip 25/50/75/100/125 ul		USA Scientific	1.25 ml positive displacement tip	4772-0125				
		1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-363	100/pk	\$122		
2-8	repetitive pipettor 2.5 ml pipet tip 50/100/150/200/250 ul		USA Scientific	2.5 ml positive displacement tip	4774-0250				
		1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-364	100/pk	\$124		
2-9	repetitive pipettor 5.0 ml pipet tip 100/200/300/400/500 ul		USA Scientific	5.0 ml positive displacement tip	4776-0500				
2-10	repetitive pipettor 12.5 ml pipet tip 250/500/750/1000/1250 ul	1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-365	100/pk	\$124		
2-11	repetitive pipettor 25 ml pipet tip 0.5/1.0/1.5/2.0/2.5 ml	1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-365	50/pk	\$77		
2-12	repetitive pipettor 50 ml pipet tip 1/2/3/4/5 ml	1	Fisher	BRAND* PD-Tip Syringe Tips	13-686-365	25/pk	\$43		
2-13	syringes, glass (Hamilton)		Hamilton	701SN 10 ul	80308				
2-14	scoop, weighing	1	Fisher Scientific	Fisherbrand Reusable Polypropylene Scoops, 100 cc	14-375-259	12/cs	\$20		
		1		Fisherbrand Reusable Polypropylene Scoops, 200 cc	14-375-260	12/cs	\$20		
2-15	forceps / tweezers	1 pk 10	Fisher Scientific	Fisherbrand* General-Purpose Broad-Tipped Forceps, 11 cm	10-300	1 ea, 10/pk	\$9, \$74		
		1		Fisherbrand* Filter Forceps, 4.5 in	09-753-50	1 ea	\$21		
		1 cs 12		Fisherbrand* General-Purpose Curved Forceps	10-275	1 ea, 12/cs	\$18, 184		
		1 cs 12		Fisherbrand Dissecting Fine-Pointed Forceps, straight	08-880	1 ea, 12/cs	\$16, \$163		
2-16	tubing, flexible plastic	1	Fisher Scientific	Fbrand* Clear PVC Tubing, 50ft/15m, 0.12in/3.2mm id	14-169-7A	50 ft / 15 m len	\$29		0.06 in / 1.6 mm thick
		1		0.18in / 4.8 mm, wall thick=0.06 in/1.6 mm	14-169-7B	50 ft / 15 m len	\$40		0.06 in / 1.6 mm thick
		1		0.25 in / 6.4 mm, wall thick=0.06 in/1.6 mm	14-169-7C	50 ft / 15 m len	\$50		0.06 in / 1.6 mm thick
		1		0.25 in / 6.4 mm, wall thick=0.09 in/2.4 mm	14-169-7D	50 ft / 15 m len	\$87		0.06 in / 1.6 mm thick
		1		0.25 in / 6.4 mm, wall thick=0.12 in/3.2 mm	14-169-7E	50 ft / 15 m len	\$95		0.06 in / 1.6 mm thick
		1		0.31 in / 7.9 mm, wall thick=0.06 in/1.6 mm	14-169-7F	50 ft / 15 m len	\$64		0.06 in / 1.6 mm thick
		1		0.37 in / 9.5 mm, wall thick=0.06 in/1.6 mm	14-169-7G	50 ft / 15 m len	\$70		0.06 in / 1.6 mm thick
		1		0.37 in / 9.5 mm, wall thick=0.06 in/1.6 mm	14-169-7H	50 ft / 15 m len	\$131		0.06 in / 1.6 mm thick
		1		0.50 in / 12.7 mm, wall thick=0.06 in/1.6 mm	14-169-7J	50 ft / 15 m len	\$88		0.06 in / 1.6 mm thick
		1		0.50 in / 12.7 mm, wall thick=0.09 in/2.4 mm	14-169-7K	50 ft / 15 m len	\$117		0.06 in / 1.6 mm thick
		1		0.50 in / 12.7 mm, wall thick=0.12 in/3.2 mm	14-169-7L	50 ft / 15 m len	\$152		0.06 in / 1.6 mm thick
		1		0.62 in / 15.9 mm, wall thick=0.12 in/3.2 mm	14-169-7M	50 ft / 15 m len	\$175		0.06 in / 1.6 mm thick
		1		0.75 in / 19 mm, wall thick=0.12 in/3.2 mm	14-169-7N	50 ft / 15 m len	\$212		0.06 in / 1.6 mm thick

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2-17	tubing connectors	1	Fisher Scientific	Nalgene* Quick-Disconnects, 6.4 to 7.9 mm tube fit	15-315A	12/pk, 6 pk/cs	\$52, \$209		
		1		Nalgene* Quick-Disconnects, 9.5 to 11 mm tube fit	15-315B	12/pk, 6 pk/cs	\$72, \$289		
		1		Bel-Art Barbed Fittings w/ Straight Connector, 0.125 in	22-384-891	12/pk	\$13		
		1		0.1875 in 22-384-909	12/pk	\$25			
		1		0.25 in 22-384-917	12/pk	\$25			
		1		0.375 in 22-384-925	12/pk	\$26			
		1		0.50 in 22-384-933	12/pk	\$25			
				Bel-Art* Scienceware* Reducing Quick-Disconnects					
		1		3.2 to 6.4 mm i.d. 15-315-6A	12/pk, 6 pk/cs	\$41, \$208			
		1		6.4 to 9.5 mm i.d. 15-315-6B	12/pk, 6 pk/cs	\$41, \$208			
		1		9.5 to 12.7 mm i.d. 15-315-6C	12/pk, 6 pk/cs	\$34, \$173			
		2-18		tubing clamps	1 pk	Fisher Scientific	Fisherbrand* Polypropylene Clamp with Flow Control	05-869	12/pk, 12 pk/cs
2-19	funnels	1 pk	Fisher Scientific	Fisherbrand* Powder Funnels, cap 50 ml	10-500	12/pk, 36/cs	\$44, \$88		
		1 pk		Fisherbrand* Powder Funnels, cap 100 ml	10-500-1	12/pk, 36/cs	\$52, \$103		
				Fisherbrand* Powder Funnels, cap 225 ml	10-500-2	6/pk, 24/cs	\$33, \$88		
		1 pk		Fisherbrand* Powder Funnels, cap 750 ml	10-500-3	4/pk, 24/cs	\$28, \$110		
		2		Fisherbrand* Large LDPE Funnels, top dia 194 mm	10-349A	1ea, 6/cs	\$21, \$106		
		2		Fisherbrand* Large LDPE Funnels, top dia 311 mm	10-349B	1ea, 2/cs	\$45, \$75		
Nondisposable Containers (Glassware)									
3-1	glass beaker	1 pk	Fisher	Fisherbrand* Reusable Glass Low-Form Griffin Beakers	FB-100-50	12/pk, 48/cs	\$55m \$161		
		1 pk			FB-100-100	12/pk, 48/cs	\$55, \$170		
		1 pk			FB-100-150	12/pk, 48/cs	\$53, \$163		
		1 pk			FB-100-250	12/pk, 48/cs	\$53, \$163		
		1 pk			FB-100-400	12/pk, 48/cs	\$62, \$191		
		1 pk			FB-100-600	6/pk, 36/cs	\$40, \$183		
		1 pk			FB-100-1000	6/pk, 24/cs	\$75, \$229		
			Fisher	Fisherbrand* Reusable Glass Heavy-Duty Low-Form Beakers: 250, 400, 600, 1000, 2000, 4000 ml	FB-101-250	12/pk, 48/cs	\$99, \$303		
					FB-101-400	12/pk, 48/cs	\$129, \$396		
					FB-101-600	6/pk, 36/cs	\$75, \$346		
					FB-101-1000	6/pk, 24/cs	\$99, \$303		
					FB-101-2000	4/pk, 8/cs	\$99, \$303		
					FB-101-4000	1ea, 4/cs	\$99, \$303		
3-2	plastic beaker	1 pk	Fisher	Fisherbrand* Low-Form PP Beakers, 25 ml	02-591-25	10 / pk	\$39		
		1 pk			50 ml 02-591-26	10 / pk	\$39		
		1 pk			100 ml 02-591-27	10 / pk	\$48		
		1 pk			250 ml 02-591-28	10 / pk	\$76		
		1 pk			400 ml 02-591-29	10 / pk	\$112		
		1 pk			500 ml 02-591-30	10 / pk	\$121		
		1 pk			600 ml 02-591-31	5 / pk	\$71		
		1 pk			1000 ml 02-591-32	5 / pk	\$104		
		3			2000 ml 02-591-33	1 ea	\$43		
		1			3000 ml 02-591-34	1 ea	\$47		
		2			5000 ml 02-591-35	1 ea	\$64		
3-3	graduated cylinders, glass	10	Fisher	Fisherbrand* Standard Class B Grad. Cyl. 10 ml TD	08-550B	1ea, 36/cs	\$19, \$544		
		10			25 ml TD 08-550C	1ea, 36/cs	\$27, \$780		
		10			50 ml TD 08-550D	1ea, 36/cs	\$31, \$880		
		10			100 ml TD 08-550E	1ea, 36/cs	\$37, \$1044		
		5			250 ml TD 08-550F	1ea, 18/cs	\$47, \$675		
		5			500 ml TD 08-550G	1ea, 12/cs	\$67, \$643		
		5			1000 ml TD 08-550H	1ea, 8/cs	\$84, \$582		
		2			2000 ml TD 08-550J	1ea, 6/cs	\$138, \$697		

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3-4	graduated cylinders, plastic	3	Fisher	Fisherbrand Polymethylpentene Grad. Cyl., 10 ml	03-007-30	1ea, 24/cs	\$16, \$256		very transparent	
		3		25 ml TC/TD 03-007-31		1ea, 18/cs	\$21, \$246		very transparent	
		6		50 ml TC/TD 03-007-32		1ea, 18/cs	\$22, \$267		very transparent	
		6		100 ml TC/TD 03-007-33		1ea, 12/cs	\$24, \$193		very transparent	
		3		250 ml TC/TD 03-007-34		1ea, 12/cs	\$32, \$256		very transparent	
		6		500 ml TC/TD 03-007-35		1ea, 8/cs	\$40, \$213		very transparent	
		5		1000 ml TC/TD 03-007-36		1ea, 6/cs	\$51, \$202		very transparent	
		2		2000 ml TC/TD 03-007-37		1ea, 4/cs	\$69, \$184		very transparent	
			Fisher	Fisherbrand Polypropylene Grad. Cyl., 10 ml	03-007-38	1ea, 12/cs	\$12, \$96		translucent	
				25 ml TC/TD 03-007-39		1ea, 12/cs	\$15, \$121		translucent	
				50 ml TC/TD 03-007-40		1ea, 12/cs	\$15, \$122		translucent	
				100 ml TC/TD 03-007-41		1ea, 8/cs	\$23, \$123		translucent	
				250 ml TC/TD 03-007-42		1ea, 12/cs	\$25, \$133		translucent	
				500 ml TC/TD 03-007-43		1ea, 6/cs	\$34, \$135		translucent	
				1000 ml TC/TD 03-007-44		1ea, 4/cs	\$52, \$138		translucent	
				2000 ml TC/TD 03-007-45		1ea, 2/cs	\$112, \$149		translucent	
3-5	bottles, glass, screw-cap		Fisher	Corning® PyrexPlus® Media/Solution Bottles 100 ml	06-423-3A	4/cs	\$105			
				250 ml 06-423-3B		4/cs	\$130			
				500 ml 06-423-3C		4/cs	\$165			
				1000 ml 06-423-3D		4/cs	\$202			
				2000 ml 06-423-3E		4/cs	\$312			
		1 cs	Fisher	Kimax® GL 45 Media/Storage Bottles 100 ml	02-542A	10/cs	\$83			
		1 cs		250 ml 02-542B		10/cs	\$91			
		1 cs		500 ml 02-542C		10/cs	\$110			
		1 cs		1000 ml 02-542D		10/cs	\$135			
		2		5000 ml 06-421-30		1ea	\$116			
3-6	bottles, plastic, square, PP, screw-cap, narrow neck	1 pk	Fisher	Nalgene® Square PP Copolymer Bottles 30 ml	03-310	12/pk, 6 pk	\$32, \$126		autoclavable	
		1 pk		60 ml 03-310-1		12/pk, 6 pk	\$33, \$129		autoclavable	
		1 pk		125 ml 03-310-2		12/pk, 6 pk	\$44, \$170		autoclavable	
		1 pk		250 ml 03-310-3		12/pk, 6 pk	\$67, \$260		autoclavable	
		1 pk		500 ml 03-310-4		12/pk, 4 pk	\$93, \$242		autoclavable	
		1 pk		1000 ml 03-310-5		12/pk, 4 pk	\$76, \$199		autoclavable	
3-7	bottles, plastic, square, HDPE, screw-cap	1 pk	Fisher	Nalgene® Rectangular HDPE Bottles 125 ml	02-924-5A	12/pk, 6 pk	\$32, \$126		NOT autoclavable	
		1 pk		250 ml 02-924-5C		12/pk, 6 pk	\$47, \$184		NOT autoclavable	
		1 pk		500 ml 02-924-5E		12/pk, 4 pk	\$73, \$190		NOT autoclavable	
		1 pk		1000 ml 02-924-5G		6/pk, 4 pk	\$84, \$219		NOT autoclavable	
3-8	volumetric flasks (glass)	1 cs	FisherBrand	Reusable Glass Class A w/ST-Stopper 10 ml	FB-400-10	12/cs	\$306		TC	
				Reusable Glass Class A w/ST-Stopper 25 ml	FB-400-205A	1 ea, 12/cs	\$104, \$861		TC	
		2		Reusable Glass Class A w/ST-Stopper 50 ml	FB-400-205B	1 ea, 12/cs	\$124, \$1027		TC	
		4		Reusable Glass Class A w/ST-Stopper 100 ml	FB-400-205C	1 ea, 12/cs	\$121, \$1000		TC	
				Reusable Glass Class A w/ST-Stopper 200 ml	FB-400-200	6/pk, 12/cs	\$291, \$448		TC	
		2		Reusable Glass Class A w/ST-Stopper 250 ml	FB-400-205D	1 ea, 12/cs	\$142, \$1172		TC	
		4		Reusable Glass Class A w/ST-Stopper 500 ml	FB-400-205E	1 ea, 12/cs	\$230, \$1906		TC	
		1 cs		Reusable Glass Class A w/ST-Stopper 1000 ml	FB-400-205F	1 ea, 6/cs	\$277, \$1149		TC	
		1 cs		Reusable Glass Class A w/ST-Stopper 2000 ml	FB-400-2000	1 ea, 4/cs	\$99, \$306		TC	

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3-9	Erlenmeyer flasks (glass)	1 pk	Fisherbrand	Reusable Glass WideMouth Erlenmeyer 125 ml	FB-501-125	12/pk, 4 pk/cs	\$73, \$224					
		1 pk		Reusable Glass WideMouth Erlenmeyer 250 ml	FB-501-250	12/pk, 4 pk/cs	\$78, \$239					
		1 pk		Reusable Glass WideMouth Erlenmeyer 500 ml	FB-501-500	6/pk, 6 pk/cs	\$49, \$225					
		1 pk		Reusable Glass WideMouth Erlenmeyer 1000 ml	FB-501-1000	6/pk, 4 pk/cs	\$81, \$251					
		1 pk		Reusable Glass WideMouth Erlenmeyer 2000 ml	FB-501-2000	4/pk, 2 pk/cs	\$102, \$157					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 25 ml	FB-500-25	12/pk, 4 pk/cs	\$65, \$200					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 50 ml	FB-500-50	12/pk, 4 pk/cs	\$65, \$200					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 125 ml	FB-500-125	12/pk, 4 pk/cs	\$62, \$191					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 250 ml	FB-500-250	12/pk, 4 pk/cs	\$64, \$198					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 500 ml	FB-500-500	6/pk, 6 pk/cs	\$41, \$187					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 1000 ml	FB-500-1000	6/pk, 4 pk/cs	\$66, \$203					
		1 pk		Reusable Glass NarrowMouth Erlenmeyer 2000 ml	FB-500-2000	4/pk, 2 pk/cs	\$102, \$158					
		1 cs		Reusable Glass NarrowMouth Erlenmeyer 4000 ml	FB-500-4000	case	\$81					
		1 cs		Reusable Glass NarrowMouth Erlenmeyer 6000 ml	FB-500-6000	case	\$150					
		3-10		carboys	3	Fisher	Nalgene® HDPE Rectangular Carboys w/ Spigot 20 L	02-963-6B	1 ea, 4/cs	\$225, \$600		
							Nalgene Flourinated Rect. Carboys w/ Spigot 20 L	02-963-5D	1/cs	\$165		
Laboratory Maintenance / Cleaning												
4-1	Drying rack	1	Fisher Scientific	72-place pegged drying rack	05-718-40	1 rack	\$305					
				Scienceware® Drain Stand	22-260-594	1 stand	\$95					
4-2	Tube and Bottle Brushes (cleaning)	1	Fisher Scientific	Fisherbrand® Stainless-Steel Handled Brushes	03-572-5	12/pk	\$94					
Gravimetric-Thermometric-Ionometric												
5-1	milligram-to-gram weighing balance (analytical / precision) must resolve at 1 mg, up to 50 g capacity, draft case	1	Mettler-Toledo	PB303-SDR FACT Mg Scale			\$1,607					
			Sartorius	College Lab Balance ED124			\$2,156					
5-2	gram-to-kilogram weighing balance (preparative) should resolve to 0.1 g or 1 g and have capacity fo 1 kg	1	Adam Equipment	HCB1002 Portable Digital Scale								
			Sartorius	AZ4101 Portable Scale								
5-3	spatulas	1	Fisher Scientific	Fisherbrand Scoopula Spatula	14-357Q	6 pc set	\$19					
		12 pc		Fisherbrand stn steel spatula blade 4 in (10 cm)	14-365B	1 pc, 12 pc	\$17, \$172					
		2		Fisherbrand stn steel spatula blade 10 in (25.4 cm)	14-365F	1 pc	\$42					
				Fisherbrand Microspatula w/ round ends stn steel	21-401-5	12 pc	\$71					
5-4	pH meter (with mV and ATC) must have Tris-compatible (Ag/AgCl) electrode		Fisher Scientific	Univeristy meter kit	13-636-AB15E							
		1		pH Combination, accumet; Single-Junction Ag/AgCl reference; BNC connector	13-620-287							
5-5	thermometer	3	Fisher Scientific	Fbrand Gen-Purp Hg Lab Thermometers: Part Imm	14-985-5B	1 ea	\$17		-20 to +110 C			
Sample Grinding, Extraction, and Centrifugation												
6-1	ultrasonicator		Fisher									
6-2	microcentrifuge	1	Beckman Coulter	Microfuge 18, F241.5P rotor								
		or 1	Sigma GmbH	SIGMA 1-15P microcentrifuge	10050	1 ea						
		1		rotor for 1-15P microfuge, 24-place	12124	1 ea						
6-3	microcentrifuge, refrigerated	1	Fisher Scientific	Eppendorf Model 5415R, 220 V, no rotor	05-401-06	1 ea	\$5,810					
		1		24-place rotor (reqd)	05-400-122	1 ea	\$620					
6-4	homogenizer/blender animal/plant tissue		Fisher Scientific	Fisher Scientific PowerGen Model 1000 Homogenizer	14-359-254	1 unit	\$1,455		230 V, 1050W, +stand, tip adaptor, 12 disposable generators (7x65mm) 7500-30,000 rpm			
				Fisher Scientific® PowerGen® Generators flat-bottom stn steel 7 x 95 mm stator	14-261-12	1 ea	\$974		0.25->20 ml			
				Fisher Scientific® PowerGen® Generators saw-tooth stn steel 10 x 95 mm stator	14-261-17	1 ea	\$919		1.5->100 ml			
6-5	Dounce Homogenizer		Fisher Scientific	Kimble® Kontes® Dounce Tissue Grinder 2 ml	K885300-0002	1 ea	\$120					
				Kimble® Kontes® Dounce Tissue Grinder 7 ml	K885300-0007	1 ea	\$105					
		1		Kimble® Kontes® Dounce Tissue Grinder 15 ml	K885300-0015	1 ea	\$118					
				Kimble® Kontes® Dounce Tissue Grinder 40 ml	K885300-0040	1 ea	\$136					
				Kimble® Kontes® Dounce Tissue Grinder 100 ml	K885300-0100	1 ea	\$293					

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6-6	Reusable Microtube Pellet Pestles		KimbleChase Kontes	Reusable Pellet Pestle, CTFE/Stainless Steel, 0.5 ml	749516-0500	1 ea	\$71					
		1		Reusable Pellet Pestle, CTFE/Stainless Steel, 1.5 ml	749516-0000	1 ea	\$68					
		1		Reusable Pellet Pestle, CTFE/Stainless Steel, 15 ml	749516-1500	1 ea	\$88					
		1		Reusable Pellet Pestle, CTFE/Stainless Steel, 50 ml	749516-5000	1 ea	\$107					
6-7	mortar & pestle sets		Fisher Scientific	CoorsTek* Porcelain Mortars, 3.5 in (90 mm) o.d.	12-961A	1 ea, 12/cs	\$30, \$306					
		1		CoorsTek* Porcelain Mortars, 7.25 in (186 mm) o.d.	12-949-1	1 ea, 3/cs	\$103, \$272					
				CoorsTek* Porcelain Pestles for mortar 12-961A	12-961-5A	1 ea, 12/cs	\$27, \$274					
		1		CoorsTek* Porcelain Pestles for mortar 12-949-1	12-949-2	1 ea, 3/cs	\$102, \$270					
6-8	Special Systems or Setups		Roche Diagnostics	Magna Lyser (for nucleic acid extraction)	03358976001	1 lyser			1-16 tubes, used with Green Beads			
				Magna Green Beads (for use with Magna Lyser)	03358941001	100 tubes	350 euro		2 ml tubes prefilled w/ 1.4 mm ceramic beads			
Sample Organization												
7-1	chill, cold rack		USA Scientific	ArcticIce MCT	2324-2726							
				CoolSafe Chamber for 0.2 ml tubes	9124-0100	1 ea	\$214		96 places, four 1.5 ml, six 0.5 ml			
				CoolSafe Chamber for 0.5 ml tubes	9124-2000	1 ea	\$184		91 places			
				CoolSafe Chamber for 1.5 ml tubes	9124-3000	1 ea	\$184		48 places			
				CoolSafe Chamber for cryogenic tubes	9124-3050	1 ea	\$184		55 places for 1.5 ml cryogenic tubes			
		1		CoolSafe Chamber for assorted tubes	9124-5000	1 ea	\$184		79 places for 0.2, 0.5, and 1.5 ml tubes			
7-2	cryotube/cryostorage rack (for cryotubes)	1	Fisher	Nalgene Colored CryoBoxes	867013-0245	24/cs	\$265		9x9 places, assorted colors			
7-3	boiling rack	1	USA Scientific	Beaker Buddy boiling rack	2016-7801							
7-4	label printer + tape	1	Brady	Brady Lab Pal Label Printer	81029	1 ea	\$261		requires labels (see next line)			
		10		Self-lam polyester 9.5 mm X 6.4 m label roll 110931	M21-375-461	1 ea	\$21		used for LAB Pal Label Printer			
7-5	test tube racks	1 pk	Fisher	Thermo Sci Nalgene Polypropylene Test Tube Peg Racks,	14-810-54A (white)	pack of 2, case of 8	\$34, \$88					
		1 pk		96 place for 10-13 mm tubes	14-810-54D (blue)		\$34, \$88					
7-6	multi-sized tube rack		Fisher	Fisherbrand Universal Tube Racks, red color	14-809-200							
		1		teal color	14-809-201							
				purple color	14-809-202							
				pink color	14-809-203							
				yellow color	14-809-204							
7-7	micro(centrifuge)/conical tube rack		Fisher	Fisherbrand Microcentrifuge Tube Racks, natural col	05-541-29	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				lavender	05-541-36	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				black	05-541-37	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
		1 cs		Fluorescent assorted	05-541-38	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				fluorescent blue	05-541-39	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				fluorescent green	05-541-40	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				fluorescent orange	05-541-41	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				fluorescent yellow	05-541-43	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
		1 cs		Non-fluorescent assorted	05-541-44	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				blue	05-541-45	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				green	05-541-46	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				orange	05-541-47	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				pink	05-541-48	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
				yellow color	05-541-49	5/pk, 20/cs	\$76, \$275		12x8 grid, 96-place. PP			
		Sample Filtration										
		Solvent/Reagent Filtration										
9-1	filtration flask setup	1	Sigma-Aldrich	Supelco Mobile Phase Filtration Apparatus 2	58062-U	1 assembly			S/T 34/45 1L rec flask, 250 ml resv, clamp, S/T 34/45 funnel			

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Sample Incubation: Cooling and Heating Units and Water Baths									
10-1	water baths (non-circulating)		Fisher Sci	2 L cap., hinged acrylic cover, 230 V 1.7 A	15-462-3(S)Q		\$232		
				5 L cap., hinged acrylic cover, 230 V 2.5 A	15-462-6Q				
				10 L cap., hinged acrylic cover, 230 V 5.8 A	15-462-11Q				
				20 L cap., hinged acrylic cover, 230 V 8.3 A	15-462-21Q				
				2 L cap., hinged stn steel cover, 230 V 1.7 A	15-462-S3(S)Q				
				5 L cap., hinged stn steel cover, 230 V 2.5 A	15-462-S6Q				
				10 L cap., hinged stn steel cover, 230 V 5.8 A	15-462-S11Q				
		1		20 L cap., hinged stn steel cover, 230 V 8.3 A	15-462-S21Q				
10-2	microwave oven	1	any consumer grade	at least 1500 W oven, 35 cm deep X 35 cm wide X 20 cm high					
10-3	circulating water baths, heating or cooling or both (check options!)	1	Fisher Sci	Isotemp Stain Stl Heating Circ. Digital 13L	13-874-4	1 ea	\$1,561		use with 3/8-in tubing
10-4	heating blocks/dry-bath	1	Fisher Sci	Isotemp Heating Blocks 12-13 mm tube (22 cap)	11-715-309Q	1 ea	\$130		solid aluminum, shaped wells
				Isotemp Heating Blocks 15-16 mm tube (12 cap)	11-715-313Q	1 ea	\$199		solid aluminum, shaped wells
10-5	heating blocks/dry-bath incubator/heater		Fisher Sci	Isotemp Digital 2-block Dry-Bath Incubator 240V	11-715-126DQ	1 ea	\$909		ambient + 5° to 130°
				Isotemp Digital 4-block Dry-Bath Incubator 240V	11-715-146DQ	1 ea	\$1,211		ambient + 5° to 130°
10-6	ice maker	1	Skadi Europe	IF90 ice-flake maker 90 kg/24 h	IF90	1 ea		ArtLaborTck	50 cm wide x 66 cm deep x 69 cm height
Sample Concentration / Diafiltration / Lyophilization									
11-1	centrifugal evaporator		Fisher	Labconco CentriVac Benchtop Concentrator	16-108-335	1 un	\$4,777		does not include cold trap
		1		Labconco CentriVac Benchtop Conc w/ Heat Booster	16-108-337	1 un	\$5,181		does not include cold trap
				Labconco ColdTrap, 230 V w/ Schuko plug	16-108-349	1 ea	\$3,823		4 L cap, -55 deg in < 15 min, 1/4 hp
11-2	lyophilizer (freeze-dryer) setup		Millrock Tech	BT48 benchtop manifold freeze dryer					
		1	Labconco	FreeZone 2.5L Benchtop Freeze Dry system	7670530	1 ea			requires pump, containers, dry chamb or manifold
		1		12-Port Drying Chamber	7522800	1 ea	\$1,700		needed for Labconco system
		4		Glass 45° Adapter, 3/4" Flask Top to 3/4" Valve	7545800	1 ea	\$20		should buy 4 to 8 if Labconco used
		2		600 ml FastFreeze Flask for 3/4-in adapter	7540800	1 ea	\$232		complete gear
		2		2000 ml FastFreeze Flask for 3/4-in adapter	7541200	1 ea	\$335		complete gear
11-3	diaphragm pump		Fisher	KNF Neuberger Chem Resist 17L/min sing head	13-875-217A	1 ea	\$1,297		
				KNF Neuberger Chem Resist 30L/min paralle head	13-881-04	1 ea	\$1,912		
				FisherSci MaximaDry OilFree 1-Stage 20L/min 75 torr	13-880-15	1 ea	\$1,429		needs 0.375 in. I.D. tubing
				FisherSci MaximaDry OilFree Parallel 40L/min 65 torr	13-880-17	1 ea	\$1,724		needs 0.375 in. I.D. tubing
				FisherSci MaximaDry OilFree 2-Stage 20L/min 6 torr	13-880-19	1 ea	\$1,775		needs 0.375 in. I.D. tubing
				FisherSci MaximaDry OilFree 2-Stage 35L/min 6 torr	13-880-21	1 ea	\$2,208		needs 0.375 in. I.D. tubing
				FisherSci MaximaDry OilFree 2-Stage 35L/min 1.5 torr	13-880-23	1 ea	\$1,770		needs 0.375 in. I.D. tubing
11-4	rotary vane pump		Fisher	Edwards RV3 65L/min pump, 76L/min airdisp 1/2 hp	11-283-79	1 ea	\$2,474		incl 2 m cable, UG19 oil, inlet screen
				Edwards RV5 105L/min pump, 116L/min airdisp 1/2 hp	11-283-80	1 ea	\$2,883		incl 2 m cable, UG19 oil, inlet screen
				Edwards RV8 167L/min pump, 195L/min airdisp 3/4 hp	11-283-81	1 ea	\$3,155		incl 2 m cable, UG19 oil, inlet screen
		1		Edwards RV12 238L/min pump, 283L/min airdisp 3/4 hp	11-283-82	1 ea	\$3,441		incl 2 m cable, UG19 oil, inlet screen
				Welch Direct-Drive HiVac 8907 61L/min	01-257-68	1 ea	\$2,520		
				Welch Direct-Drive HiVac 8912 90L/min	01-257-69	1 ea	\$2,757		
				Welch Direct-Drive HiVac 8917 144L/min	01-257-70	1 ea	\$3,008		
Liquid Mixing									
12-1	vortexer / vortex mixer	2	Labnet	Vortex Mixer VX-200, 230 V, EU power cord	S0200-230V-EU	1 ea			
12-2	rocker	1	Labnet	ProBlot Rocker 25XL (30 x 30 cm)	S2025-XL-230V	1 ea			
		1		ProBlot 35 Deluxe Rocking Platform	S2035-220V	1 ea			
12-3	orbital shaker	1	Labnet	Orbit LS Shaker	S2030-LS-230V	1 ea			
12-4	3D shaker / accessories		Labnet	GyroTwister GX-1000 3D Shaker, 30 x 30 cm	S-1000	1 ea			
				GyroTwister GX-1000 3D Shaker, 40 x 40 cm	S-1000-40	1 ea			
		1		GyroTwister GX-1000 3D Shaker, 50 x 50 cm	S-1000-50	1 ea			
				GyroTwister GX-1000 3D Shaker, 30 x 30 cm, dimpled mat to hold tubes	S-1000-M	1 ea			
				GyroTwister GX-1000 3D Shaker, replacement universal sample tie-downs	S-1000-T	pack of 8			

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12-5	container rotator + carousels	1	Labnet Intl	Compact LabRoller Rotator	H5100-230V	1 ea			
		1		Carousel for 8 x 50 ml conical tubes	H5108-50A	1 ea			
		1		Carousel for 16 x 15 ml conical tubes	H5116-15A	1 ea			
		1		Carousel for 32 x 1.5 ml conical tubes, vertical unit	H5132-VA	1 ea			
12-6	magnetic stirrer only		Labnet Intl	AccuPlate Stirrer, 5 x 7 in, ceramic top	D0410-230V	1 ea			
12-7	hot plate only		Labnet Intl	AccuPlate Hotplate, 5 x 7 in, ceramic top	D0400-230V	1 ea			
12-8	magnetic stirrer + hot plate combination	2	Lab Intl	AccuPlate Hotplate Stirrer, 5 x 7 min	D0420-230V	1 ea			
12-9	stir bar	2	Fisher Scientific	F-brand Octagonal Mag Stir Bar, 1/8 dia X 1/2 L in	14-513-57	1 ea, 50/cs	\$7, \$236		
				F-brand Octagonal Mag Stir Bar, 5/16 dia X 1/2 L in	14-513-58	1 ea, 50/cs	\$7, \$217		
		2		F-brand Octagonal Mag Stir Bar, 5/16 dia X 1 L in	14-513-59	1 ea, 50/cs	\$7, \$241		
				F-brand Octagonal Mag Stir Bar, 5/16 dia X 3/2 L in	14-513-60	1 ea, 50/cs	\$8, \$272		
		2		F-brand Octagonal Mag Stir Bar, 5/16 dia X 2 L in	14-513-61	1 ea, 50/cs	\$10, \$329		
				F-brand Octagonal Mag Stir Bar, 3/8 dia X 1 L in	14-513-51	1 ea, 50/cs	\$9, \$295		
		2		F-brand Octagonal Mag Stir Bar, 3/8 dia X 3/2 L in	14-513-52	1 ea, 50/cs	\$8, \$332		
				F-brand Octagonal Mag Stir Bar, 3/8 dia X 2 L in	14-513-66	1 ea, 50/cs	\$14, \$469		
		2		F-brand Octagonal Mag Stir Bar, 3/8 dia X 5/2 L in	14-513-67	1 ea, 50/cs	\$21, \$869		
				F-brand Octagonal Mag Stir Bar, 1/2 dia X 3/2 L in	14-513-56	1 ea, 50/cs	\$23, \$950		
		2		F-brand Octagonal Mag Stir Bar, 1/2 dia X 3 L in	14-513-68	1 ea, 50/cs	\$5, \$215		
Chromatography									
13-1	column stands and supports	1	SpectrumLabs	Bench Top Work Station	123320	1	\$740		
13-2	clamps		Fisher Scientific	Fisher Scientific* Castaloy* Three-Prong Extension Clamps: 25, 57, and 89 mm max grip size	05-769-6Q	1 clamp	\$36		
		05-769-7Q			1 clamp	\$42			
		05-769-8Q			1 clamp	\$55			
			Fisher Scientific	Fisher Scientific* Castaloy* Fixed-Angle Clamps	05-769-2Q	1 clamp			3-prong with fixed jaw angle
		05-769-1Q			1 clamp			flat clamp	
		Fisher Scientific* Castaloy* Adjustable-Angle Clamps	05-769Q	1 clamp	\$44		57 mm max grip size		
13-3	clamp holder / bosshead / rod connector		Fisher Scientific	Fisher Scientific* Castaloy* Clamp Regular Holder	05-754Q	1 holder	\$20		attaches clamps at right angles
				Fisher Scientific* Castaloy* Clamp Swivel Holder	05-762Q	1 holder	\$26		tilts clamp at any angle in parallel planes
				Fisher Scientific* Flexaframe* Castaloy* Hook Connector	14-666-18Q	1 connector	\$24		locks two rods at 90 deg angle

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13-4	0.5 cm X 5 cm (1 ml) column	2	Bio-Rad	Econo-column	737-0507	2 ct			
13-5	0.5 cm X 10 cm (2 ml) column	2	Bio-Rad	Econo-column	737-0512	2 ct			
13-6	0.5 cm X 15 cm (3 ml) column	2	Bio-Rad	Econo-column	737-0517	2 ct			
13-7	0.5 cm X 20 cm (4 ml) column	2	Bio-Rad	Econo-column	737-0522	25 ct			
13-8	0.7 cm X 4 cm (1.5 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0704	1 ct, 10 ct	\$18.5, 135		
13-9	0.7 cm X 5 cm (2 ml) column	2	Bio-Rad	Econo-column	737-0707	2 ct			
13-10	0.7 cm X 10 cm (4 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0710	1 ct, 10 ct	\$23, 135		
13-11	0.7 cm X 15 cm (6 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0715	1 ct, 10 ct	\$23, 155		
13-12	0.7 cm X 20 cm (8 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0720	1 ct, 10 ct	\$23, 155		
13-13	0.7 cm X 30 cm (12 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0730	1 ct, 10 ct	\$27, 174		
13-14	0.7 cm X 50 cm (19 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-0750	1 ct, 10 ct	\$27		
13-15	1 cm X 5 cm (4 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1005	1 ct, 10 ct	\$18.5, 135		
13-16	1 cm X 10 cm (8 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1010	1 ct, 10 ct	\$23, 135		
13-17	1 cm X 20 cm (16 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1020	1 ct, 10 ct	\$23, 154		
13-18	1 cm X 30 cm (24 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1030	1 ct, 10 ct	\$23, 155		
13-19	1 cm X 50 cm (40 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1050	1 ct, 10 ct	\$27, 174		
13-20	1 cm X 120 cm (94 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1012	1 ct, 3 ct	\$73, 232		
13-21	1.5 cm X 5 cm (9 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1505	1 ct, 5 ct	\$28, 97		
13-22	1.5 cm X 10 cm (18 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1510	1 ct, 5 ct	\$33, 107		
13-23	1.5 cm X 15 cm (27 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1515	1 ct, 5 ct	\$33, 107		
13-24	1.5 cm X 20 cm (35 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1520	1 ct, 5 ct	\$38, 117		
13-25	1.5 cm X 30 cm (54 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1530	1 ct, 5 ct	\$37, 117		
13-26	1.5 cm X 50 cm (88 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1550	1 ct, 5 ct	\$46, 155		
13-27	1.5 cm X 75 cm (124 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1575	1 ct, 3 ct	\$83, 175		
13-28	1.5 cm X 100 cm (177 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1511	1 ct, 3 ct	\$92, 203		
13-29	1.5 cm X 120 cm (230 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1512	1 ct, 3 ct	\$102, 233		
13-30	1.5 cm X 170 cm (300 ml) column		Fisher	Kontes FlexColumn Econo Column	K420401-1517	1 ct, 2 ct	\$138, 233		
13-31	2.5 X 5 cm	2	Bio-Rad	Econo-Column 2.5 x 5 cm, 25 ml	737-2507	2 ct			
13-32	2.5 X 10 cm	2	Bio-Rad	Econo-Column 2.5 x 10 cm, 49 ml	737-2512	2 ct			
13-33	2.5 X 20 cm	2	Bio-Rad	Econo-Column 2.5 x 20 cm, 98 ml	737-2522	2 ct			
13-34	2.5 X 30 cm	2	Bio-Rad	Econo-Column 2.5 x 30 cm, 147 ml	737-2532	2 ct			
13-35	2.5 X 50 cm	2	Bio-Rad	Econo-Column 2.5 x 50 cm, 246 ml	737-2551	2 ct			
13-36	2.5 X 75 cm	2	Bio-Rad	Econo-Column 2.5 x 75 cm, 344 ml	737-2576	2 ct			
13-37	2.5 X 100 cm	2	Bio-Rad	Econo-Column 2.5 x 100 cm, 491 ml	737-2591	2 ct			
13-38	5.0 X 10 cm	2	Bio-Rad	Econo-Column 5.0 x 10 cm, 196 ml	737-5011	1 ct			
13-39	fraction collector + accessories	1	Gilson	FC203B fraction collector	???				
				Rack Code 14: 12 x 75-100 mm tubes, cap 128	170414				
				Rack Code 2: 6 x 50 mm tubes, cap 119	130402				
		2		Rack Code 29: 12-13 x 75 mm, cap 60	150429				
		3		Rack Code 1: 13 x 65 - 100 mm, cap 80	12040101				
				Rack Code 4: 12 x 75 - 100, cap 80	130412				
Electrophoresis Systems, Components, Accessories									
14-1	horizontal bed electrophoresis (nucleic acids)	2	Thermo Scientific	EC Classic series submarine gel system					
			Hofer	HE33 mini submarine					
			Thermo Scientific	Owl EasyCast B1 mini gel					
			Hofer	HE99X max submarine					
			Thermo Scientific	Owl EasyCast D2 wide gel					
14-2	vertical gel electrophoresis (protein) + accessories		Hofer	SE260 Mighty Small II, basic	SE260B				no combs, caster, spacers
		1		SE260 Mighty Small II, complete	SE260-10A-75				10 plates, 5 alumina notched, SE245 caster, two 0.75 mm 10well combs, spacers
		1		SE235 4-gel caster, 10x10.5 cm plates	SE235				

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14-3	gel documentation	1	Syngene	DigiGenius				Dr. Zeydanli	
14-4	Western blotting system	1	Hoefer	TE 70XP semi-dry transfer unit w/ power supply	TE70XP				
				TE 22 MiniTransfer Tank					
14-5	electroporation system		Fisher	BTX Harvard App 25-,96-well Eporation Sys				5x5 or 8x12 plates, research	
				Eppendorf Multiporator Eporation Sys	E4308000015	1 sys	\$3,900		20-1200 V, 15-500 usec/5 usec inc
			Eppendorf Intl	Eppendorf Eporator	4309 000.019	1 sys			200-2500 V, decaying expon, yeast/bacteria
		1	Bio-Rad	Gene Pulser Xcell Total System	165-2660	1 sys			both eukaryotic & prokaryotic
14-6	electroporation cuvette		Fisher	F-brand E-poration Cuvettes Plus, 1 mm gap 90 ul	FB101	50/pk, 2500/cs	\$171, \$7300		
				F-brand E-poration Cuvettes Plus, 2 mm gap 400 ul	FB102	50/pk, 2500/cs	\$171, \$7300		
				F-brand E-poration Cuvettes Plus, 4 mm gap 800 ul	FB104	50/pk, 2500/cs	\$171, \$7300		
			Eppendorf Intl	Eppendorf Cuvettes Plus, 1 mm gap 100 ul	4307 000.569	50/pk			
				Eppendorf Cuvettes Plus, 2 mm gap 400 ul	4307 000.593	50/pk			
				Eppendorf Cuvettes Plus, 4 mm gap 800 ul	4307 000.623	50/pk			
				Eppendorf cuvette holder (16 place)	4308 078.006	1 ea			
		1 pk	BioRad	Gene Pulser/MicroPulser cuvettes, 1 mm gap	165-2083, -2089	5/pk, 50/pk			
		1 pk		Gene Pulser/MicroPulser cuvettes, 2 mm gap	165-2082, -2086	5/pk, 50/pk			
		1 pk		Gene Pulser/MicroPulser cuvettes, 4 mm gap	165-2081, -2088	5/pk, 50/pk			
Culture: Bacteria, Yeast, Mammalian									
15-1	incubator-shaker		Labrepco	SI-600 Incubator-Shaker	AAH23205K	1 system			
		2	Amerex	Steadyshake 757 Benchtop Orbital Incub. Shaker					
15-2	water bath shaker, reciprocating (back-and-forth)	1	Amerex	Gyromax 939					
15-3	microbiology inoculating needle	2	Fisher Scientific	Fisherbrand Nichrome Inoculating Needles w/ Handles, 26 ga	22-268-128				
15-4	microbiology inoculating loop	1 pk	Fisher Scientific	Fisherbrand Nichrome Inoculating Loop w/ Handles, 25 ga, 3 mm dia, 100 mm wire with 20 cm handle	13-104-5	pack of 12			
15-5	counting chamber / hemocytometer	1	Fisher Scientific	Bright-Line Counting Chamber	02-671-5	1 ea	\$208		
15-6	bacterial plate spreaders	1		Scienceware* Bacterial Cell Spreaders, 1.6 cm blade	08-769-2A	1ea	\$16		
		1		2.5 cm blade	08-769-2B	1ea	\$16		
15-7	inverted microscope (mammalian cell culture)	1	Olympus	CKX31 inverted microscope					
			Leica	DMI3000??					
15-8	upright microscope (everything)		Olympus	FSX100					
			Ankara Univ	Zeiss AxioImager M					
Cold Storage: Refrigeration, Freezing									
16-1	-80 degree freezer	1							
16-2	-20 degree freezer	1							
16-3	cold case	1							
Sterilization (for microbiology)									
17-1	Autoclave	1	Fisher Scientific	Tuttnauer 3850M Tabletop manual	02-964-26		\$12,240		
17-2	burner	1	Fisher Scientific	Fisher Scientific Small-Size Burner	04-067NQ		\$40		
Genomics Laboratory Equipment									
18-1	thermal cycler, without gradient	2	LifePro	96-well Thermal Cycler	BTC02096			0.2 ml well	
			LabNet Intl	MultiGene Mini 24-well block	TC020-24-230V			0.2 ml tubes	
18-2	thermal cycler, gradient		LifePro	96-well Thermal Cycler gradient	BTC12096			0.2 ml well	
		1	LabNet Intl	MultiGene Gradient Thermal Cycler, 96wellblock	TC9600-G-230V				
Equipment Specialized for ELISA Plate Production									
19-1	microplate readers	1	BioTek	Synergy H4 Hybrid Multi-Mode Microplate Reader	H4MLFAD		\$59,000	Peramedikal	abs, fluor, chemilum in one
Power Backup									
20-1	uninterruptible power source/supply (UPS)	1							