

**CSHL MICROARRAY 2000 Source Sheet**

	Vendor	Phone	Order Number	Description	Price	Amount Needed
<b>Slide Preparation:</b>	Shandon Lipshaw	800-245-6212	121	Glass slide box with slide rack and cover	56	at least two
	Sigma	800-325-3010	P 8920	poly-L-lysine solution, 100ml	28	six
	Research Products International	708-635-7330	163000	Microscope slide boxes	30	one
	Fisher	800-766-7000	12-518-100A	Gold Seal Microslides. 3x1" Case of 25 packs; you probably won't need a case.	260	one printing=200 slides
	Fisher	800-766-7000	S318-3	Sodium Hydroxide pellets. 3kg bottle	21	one
<b>Amplification:</b>	MJ Research	888-729-2165	MJP-9601	96 Well PCR Plates, 25/box	85	depends on genome size
	MJ Research	888-729-2165	MSM-1001	Microseal "M" Mats for 96 Well PCR Plates, reusable, 7/pack	70	one-two
	Fisher	800-766-7000	07-200-94	96 Well U-bottom Polypropylene plates with polystyrene lids 50/box	100	depends on genome size
	Wheaton		851338	12-Channel Aspirator	100	one
	USA Scientific	800-522-8477	2802-0384	384 Well Genetix Printing Plates, 25/box	125	depends on genome size
	Advanced Genomic Technologies	301-990-2685	48461	Plate Sealers	26	one-two
	Fisher	800-766-7000	13-681-101	Multichannel pipetting troughs, case	90	one
	Beckman Coulter, Inc.	800-233-4685	717251	Multimek Tips P250 Rack Assembly ten racks/case	39	one-two per 96 well plate
<b>Post Processing:</b>	Aldrich	800-3253010	32,863-4	1-methyl-2-pyrrolidinone, 1liter	51	one
	Aldrich	800-3253010	23,969-0	succinic anhydride, 50grams	13.55	one
	Sigma	800-3253010	H6644	Humid Chamber	14	one
	VWR	800-932-5000	52865-005	Diamond Scribe	15.25	one
	Fisher	800-766-7000	A73-500	Boric Acid, crystalline. 500g bottle	10	one
<b>RNA Preparation:</b>	Beckman, Spinco Div	415-857-1150	357003	Polyallomer Centrifuge Bottles w/ Screw Caps; 50 ml	150	one
	5 Prime 3 Prime	800-533-5703	p1-982148	Phase Lock Gel III Heavy (25/pkg)	73	one
	Bio-Rad	800-227-3259	732-6008	Bio-Spin Chromatography Columns, empty, 100	65	one
	Boehringer Mannheim		808229	Oligo dT Cellulose(1g)	130	75mg/polyA Isolation
<b>cDNA Production and Labeling:</b>	Amersham	800-323-9750	PA25001	Fluorolink Cy5 Monofunctional Dye 5-Pack	170/5 pack	5 pack= 40 hybs
	Amersham	800-323-9750	PA23001	Fluorolink Cy3 Monofunctional Dye 5-Pack	170/5 pack	5 pack=40 hybs
	Amicon	800-343-0696	42410	Microcon 30(100 per pkg)	208	start with one
	Sigma	800-325-3010	A0410	5MG 5-(3-Aminoallyl)-2'-deoxyuridine 5'-triphosphate sodium salt	83/1mg	start with one
	QIAGEN	800-426-8157	28106	QIAquick PCR Purification Kit(250)	~250	need 2/ hyb
	Gibco-BRL	800-828-6686		Oligo dT primer(20-mer) for total/polyA priming [TTT TTT TTT TTT TTT TV]		10ug/hyb
	Amersham	800-323-9750	27-2166-01	pd(N)6 Sodium Salt, for random priming of polyA RNA		10ug/hyb
	Stratagene	800-424-5444	600085	Stratascript Reverse Transcriptase Enzyme(10,000 U), supplied with 10X Buffer	149	150U/reaction
Amersham	800-323-9750	27-2035-02	dNTP Set, 100 mM, 4 x 100umol	587	one	
<b>Hybs:</b>	Erie Scientific	800-258-0834	22x251	lifferslips, the 22x25 size are great for arrays printed with 16 tips.	39/ounce	one ounce= 140 coverslips
	DieTech	408-279-3363		Hybridization Chambers: No order number, request DeRisi Hyb. Chamber		depends on usage

DieTech	408-279-3363		Boganski Hyb Chamber Screws	2	need 6/hyb chamber
Millipore	800-645-5476	UFC308HYNB	UltraFree MC Low Binding 0.45 um filter	350	
Cyberian Outpost	800-856-9800x251	99524	Official Red Hat Linux 6.2 Deluxe Edition	69	one

**Analysis:**

**Equipment**

**needs:**

63 degree water bath.  
 Tabletop centrifuge at room temperature with plate carriers, we use a Beckman GS-6 .  
 Also recommend using filter tips with any RNA work, we like the ART tips from Fisher(cat. #212361 for p200)  
 For 96 well plate precipitations we use a Sorvall RC3B centrifuge with 6 plate carriers.  
 To label arrays after printing, we use a Brother Ptouch Extra electronic labeling system with TZ label tape. This is available at most office supply stores.

**Large Items:**

Microarrayer can be built for approx. \$23,000 as indicated at <http://cmgm.stanford.edu/pbrown/mguide/index.html>.  
 AXON GenePix Scanner 4000a approx. \$50,000, see [http://www.axon.com/GN\\_Genomics.html](http://www.axon.com/GN_Genomics.html)  
 MJ Research Tetrad PCR Machines, small footprint, easy to use, about \$40,000. We have 2 at UCSF.  
 MultiMek 96-well pipetting robot, approx. \$55,000. This is not a necessary piece of equipment, but it can vastly improve throughput and accuracy and is strongly recommended for high-use microarray setups. See [http://www.beckmanoulter.com/Beckman/biorstch/prodinfo/automated\\_solutions/mmek96\\_2.asp](http://www.beckmanoulter.com/Beckman/biorstch/prodinfo/automated_solutions/mmek96_2.asp)