

Products	Printhead/Device used for	MicroFab Part #	Supplier Name	Part Number	Contact Info	Comments	
Disposables Used for Jetting & Printing							
1) Reservoirs							
	with cap	PH-41, PH-41H	C-03	Boca Scientific	S10100	www.bocascientific.com	Select: 2.5mL column, 10mm pore size for lower filter size, no upper filter
	with cap and a bottle	PH-46-LG, PH-47	C-04-20	Fisher-Scientific	W227354	http://www.fishersci.com	20mL flat bottom bottle
	with cap and a bottle	PH-47	C-04-25 (Legacy part)	Qorpak	GLC-01082	www.qorpak.com	25mL bottle, Legacy part
	with cap	PH-46-SM, PH-46H	C-05	EconoLab	T338-6	www.econo-lab.com	Non-graduated 2mL microtube reservoirs
2) Minstac Fittings							
	Tubing Unions	PH-46, PH-47/MJ-AT	TF-04	Lee Company	TMUA3201950Z	www.theleeco.com	
	Pre-assembled tube sets (Male Coupling screws on both end)	PH-46, PH-47/MJ-AT	(incl. Minstac union, 20cm teflon tubing, & Min. to Luer adapter)	Lee Company	TUTC3216910L - 10 cm TUTC3216915L - 15 cm TUTC3216930L - 30 cm TUTC3216960L - 60 cm	www.theleeco.com	Specify the length of the tube set Choice: 10, 15, 30 and 60cm
			TF-02				
			TF-03				For PH-47: Order long tube set and cut in half if minstac fitting desired ONLY on one end
	Minstac (inline) filter (12µm)	MJ-AT	TF-07	Lee Company	INMX0350000A	www.theleeco.com	
3) Tubings							
	C-flex tubing	PH-46/MJ-AB	TF-08-x	Cole-Parmer	E-06422-01	www.coleparmer.com	
	PTFE microbore Tubing	PH-46/MJ-AB	(incl. luer to barb fitting, 1m (3')	Nordson EFD	7018272	www.nordson.com	
	Female luer fitted metal needle	PH-46/MJ-AB	of flexible tubing, sel x=AB or ABL)	Nordson EFD	7018122	www.nordson.com	
	PTFE tubing, one end minstac	PH-47/MJ-AT	C-04b				
4) Filter housing with filter							
		MJ-AL, MJ-ALB	TF-05 (for MJ-AL-01)	Beswick Engineering	CF-316-20-316-S (example)	www.beswick.com	Select: 5µm stainless steel mesh, and others based on fluid properties
	with no filter	MJ-AL, MJ-ALB	TF-05a (for MJ-AL-00)				
	luer adaptor, O-ring	MJ-AL, MJ-ALB		Beswick Engineering	LULF-10M-316-V (example)	www.beswick.com	Select O-ring based on fluid properties (EPDM, Buna, or Viton)
General Supplies Useful for Jetting, Printing & Cleaning Devices							
5) Cleaning solution				Cole-Parmer	U-18100-00	www.coleparmer.com	For hard to clean device tip blockages
5a) For backflush cleaning of MJ-AT type devices (See two options in Comments column)					TMDA3201950Z TMRA9502950Z	www.theleeco.com , Nordson	Option 1: LEE fitting + Flexible tubing (0.07"/1.8mm I.D.)+ Green 17 gauge Needle dispenser (EFD Connector) Option 2: Two LEE fittings+Flexible tubing (0.07"/1.8mm I.D.)+Green 17 gauge Needle dispenser (EFD connector)
5b) Sonicator for backflush cleaning				Branson	Model: Bransonic B3-R (Bransonic 3 series)	http://www.thomassci.com/nav/	Input: 17 watts, 0.3 amp; Output: 12 watts, 55KHz
6) Cotton swabs 6" with wooden handle (Also available in 3" wooden handle)				Fisher Scientific	14-960-3P 14-960-3N	www.fishersci.com	CAUTION: Be careful not to insert fibers into nozzle during wiping excess fluid after purge
7) Vials (2 mL) as catcher	Jetlab® machines			Cole Palmer Company	98812-01	www.coleparmer.com	2 mL Snap-It vials
Ependorf tubes as catcher (for maintenance position; pre-2010 Jetlabs) (#1 source can be used as well)		C-05		Fisher Scientific	05-669-23	www.fishersci.com	
8) Filter for inks (For offline use)							Recommended for inks with particles bigger than 5% of orifice diameter
	5.0µm Nylon for Water-based	All printheads & devices		Fisher Scientific	F2500-50	www.fishersci.com	
	5.0µm PTFE for Solvent-based	All printheads & devices		Millipore	SLLS 025 NS	www.millipore.com	
	Microcentrifuge filters for small volumes	All printheads & devices		Millipore	UFC30GV00	www.millipore.com	For volumes 50-500µL
9) Yellow paper for printing		YPAP					