

Materials List for:

The Diffusion of Passive Tracers in Laminar Shear Flow

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Materials

Name	Company	Catalog Number	Comments
Flourescein Dye	Flinn Scientific	LOT: 118362 CAS NO: 518-47-8	
PhD ULTRA Hpsi Syringe Pump	Harvard Apparatus	703111	programmable digital syringe pump
Compact Infusion Pump Model 975	Harvard Apparatus	55-1689	
Form 2 SLA 3D Printer	Formlabs	100-240	
Glass pipes	VitroCom	4410 and 8100	
PTFE sealing tape	Teflon	4934A12	
PVC tubing (1/8" ID)	McMaster	5231K144	5 Foot Length
Reusable Stainless Steel Dispensing Needle 22 Gauge, .016" ID, .028" OD, 1/8" NPT Thrd, 2" Lg	McMaster	7590A45	1 Required
RTV silicone rubber sealant	McMaster	74945A69	
Plastic Syringe Manual, w/ Luer Lock Connection, .34 oz Capacity, Packs of 10	McMaster	7510A653	1 required
Plastic Syringe Manual, w/ Luer Slip Connection, .034 oz Cap, Packs of 10	McMaster	7510A603	1 required
Plastic Syringe Manual, w/ Luer Lock Connection, 0.1 oz Capacity, Packs of 10	McMaster	7510A651	2 required
Plastic dispensing tip	McMaster	6699A1	3 required
6" C-Clamps	McMaster	5133A18	2 required
Type 18-8 Stainless Steel Flat Washer Number 6 Screw Size, 0.156" ID, 0.312" OD, Packs of 100	McMaster	92141A008	8 required
18-8 SS Pan Head Phillips Machine Screw 6-32 Thread, 2-1/4" Length, Packs of 50	McMaster	91772A167	4 required
Oil-Resistant Buna-N Multipurpose O-Ring 1/16 Fractional Width, Dash Number 016, Packs of 100	McMaster	9452K6	3 required
Type 18-8 Stainless Steel Hex Nut 6-32 Thread Size, 5/16" Wide, 7/64" High, Packs of 100	McMaster	91841A007	4 required
18-8 SS Pan Head Phillips Machine Screw 6-32 Thread, 1/2" Length, Packs of 100	McMaster	91772A148	4 required

24" Black Light Fixture with bulb	American DJ	B0002F5544	2 required
DSLR camera	Nikon	D300	
24-120 mm lens	Nikon	2193	
Remote programmable trigger	Nikon	4917	remote programmable trigger
Memory Card	SanDisk	SDCFX-032G-E61	
Metric ruler	McMaster	20345A35	