

# Materials List for:

## Utilization of Stop-flow Micro-tubing Reactors for the Development of Organic Transformations

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### Materials

Name	Company	Catalog Number	Comments
Acetylene Cylinder	Chem Gas PTE LTD (Singapore)		
Logato 200 series Syringe pumps	KD Scientific Inc	788200	
Blue LED Strips	Inwares Pte Ltd (Singapore)	3528 FlexiGlow LED Strips	
PFA Tubing High Purity 1/16" OD x .030" ID x 50ft	IDEX Health&Science	1632-L	Depending on diameter of tubings needed
KDS Stainless Steel Syringe	KD Scientific Inc	780802	
Shut-Off Valve Tefzel (ETFE) with 1/16" Fittings	IDEX Health&Science	P-782	
BPR Assembly 20 psi	IDEX Health&Science	P-791	
Luer Adapter Female Luer - Female Union	IDEX Health&Science	P-628	Known as syringe connector in this paper
1/4-28 Female to Male Luer Assy	IDEX Health&Science	P-675	Known as needle connector in this paper
Union Body PEEK .020 thru hole, for 1/16" OD"	IDEX Health&Science	P-702-01	
Super Flangeless Ferrule w/SST Ring, 1/4-28 Flat-Bottom, for 1/16" OD	IDEX Health&Science	P-250X	
PEEK Low Pressure Tee Assembly 1/16" PEEK .020 thru hole	IDEX Health&Science	P-712	Known as T-connector in this paper
Super Flangeless Nut PEEK 1/4-28 Flat-Bottom, for 1/16" & 1/32" OD	IDEX Health&Science	P-255X	
Micro Metering Valve Assembly, 1/4-28 Flat-Bottom, for 1/16" OD	IDEX Health&Science	P-445NF	Known as Needle valve in this paper
Shut Off Valve Assembly PEEK .020	IDEX Health&Science	P-732	
Terumo Syringe without needle	Terumo medical		1 mL and 3 mL depending on the volume needed
Terumo needle	Terumo medical		22G X 1½" (0.70 X 38 mm)
Sterican needle	B   Braun Sharing Enterprise		21G X 4¼" (0.80 X 120 mm)
Bruker ACF300 (300 MHz)			For 300 MHz NMR scanning
AV-III400 (400 MHz)			For 400 MHz NMR scanning
AMX500 (500 MHz)			For 500 MHz NMR scanning
Merck 60 (0.040-0.063 mm) mesh silica gel	Merck		
4-Iodoanisole	Sigma Aldrich	I7608-100G	
412740 ALDRICH	Sigma Aldrich	412740-5G	

Bis(triphenylphosphine) palladium(II) dichloride ≥99% trace metals basis			
Copper(I) iodide purum, ≥99.5%	Sigma Aldrich	03140-100G	
N,N-Diisopropylethylamine	Tokyo Chemical Industry Co., Ltd	D1599	
1, 3, 5-trimethoxybenzene	Tokyo Chemical Industry Co., Ltd	P0250	
2,3-Dimethyl-2-butene ≥99%	Sigma Aldrich	220159-25ML	
Bromopentafluorobenzene 99%	Sigma Aldrich	B75158-10G	
TEMPO Green Alternative 98%	Sigma Aldrich	214000-25G	
Acetonitrile	Sigma Aldrich	271004-1L	
Diethylether	Sigma Aldrich	346136-1L	
Dimethyl sulfoxide	VWR chemical	23500.322- 25L	
1,2-Dichloroethane	Sigma Aldrich	284505-1L	
9-mesityl-10-methylacridinium perchlorate			Refer to Ref. <sup>8</sup> for synthesis
Ir(ppy) <sub>2</sub> (dtbbpy)PF <sub>6</sub>			Refer to Ref. <sup>9</sup> for synthesis