

Materials List for:

Solid-phase Submonomer Synthesis of Peptoid Polymers and their Self-Assembly into Highly-Ordered Nanosheets

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Materials

Name	Company	Catalog Number	Comments
Dimethylformamide	EMD Millipore	EM-DX1726P-1	99+%
N-methylpyrrolidinone	VWR	BDH1141-4LP	99%
Bromoacetic Acid	Acros Organics	200000-106	99%
4-Methylpiperidine	Sigma-Aldrich	M73206	96%
N,N'-diisopropylcarbodiimide	Chem-Impex International	001100	99.5%
Dichloromethane	EMD Millipore	EMD-DX0835	ACS grade
Acetonitrile	EMD Millipore	EM-AX0145P-1	99.8%
Trifluoroacetic acid	Sigma-Aldrich	T6508	99%
Triisopropylsilane	Sigma-Aldrich	233781-10G	For TFA cleavage
1,2-Dichloroethane	JT Baker	JTH076-33	For siliconization of glass reaction vessels
Phenethylamine	Sigma-Aldrich	407267-100ML	>99.5% Hydrophobic side-chain amine
Boc-ethylenediamine	CNH Technologies	C-1112	Cationic side-chain amine
t-Butyl beta-alanine HCl	Chem-Impex International	04407	Anionic side-chain amine
α-Cyano-4-hydroxycinnamic acid	Sigma-Aldrich	C8982-10X10MG	For MALDI matrix
Nile Red	Sigma-Aldrich	19123-10MG	For fluorescence Imaging
Dichlorodimethylsilane	Sigma-Aldrich	80430-500G-F	For siliconization of glass reaction vessels
Disposable PP fritted cartridge	Applied Separations	2416	6 mL polypropylene cartridge with 20 mm PE frit
Disposable 3 way luer adapter	Cole-Parmer	31200-80	Stopcock for disposable manual synthesis reaction vessel
Luer Lock ring	Cole-Parmer	45503-19	1/4" fitting for disposable manual synthesis reaction vessel
Fittings Luer	Cole-Parmer	45500-20	1/4" fitting for disposable manual synthesis reaction vessel
Disposable PP pipets	VWR international	16001-194	For TFA transfers
Luer lock plastic syringe	National Scientific	S7515-5	6 mL syringes
1 dram glass vial	VWR international	66011-041	With phenolic molded screw cap with polyvinyl-faced pulp liner
20 mL scintillation vial	VWR international	66022-060	With attached PP cap and pulp foil liner
Secure-Seal adhesive spacer	Invitrogen	S-24736	For fluorescence imaging
Glass slides	Electron Microscopy Sciences	63411	For fluorescence imaging
Cover slip	VWR international	48366-067	For fluorescence imaging
4" Silicon wafer	Ted Pella, Inc.	16007	Pre-dice in 5x7 mm chips

0.45 filter	VWR international	28143-924	For HPLC. PTFE membrane
Agarose	BD Biosciences	212272	For fluorescence imaging
SPE Vacuum Manifold	Sigma-Aldrich	57044	Example of SPE vacuum manifold
Fritted glass vessel	Ace glass	6402-12	Porosity C frit
Plasma Cleaner/Sterilizer	Harrick Scientific Products, Inc.	PDC-32G	Example of plasma cleaner to prepare silicon chips for SEM