

Materials List for

Synthetic Condensates and Cell-Like Architectures from Amphiphilic DNA Nanostructures

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Materials

Name	Company	Catalog Number	Comments
0.22 µm syringe filters	Sigma-Aldrich	SLGVR33RB	
24 x 60 mm #1.5 Rectangular cover glasses, Menzel Gläser	VWR	631-0853	
2-Propanol	Sigma-Aldrich	34683	
6 L Ultrasonic Cleaner with Digital Timer and Heat, 230 VAC	Cole-Parmer	WZ-08895-11	
Araldite Rapid Adhesive 2 Part Epoxy Glue	RS	ARA-400005	
Bio-Rad C1000 thermal cycler	Bio-Rad	1851197	
Brand Microcentrifuge Tube 2 mL with Locking Lid	Fisher Scientific	15338665	2 mL microcentrifuge tubes for the extraction of C-star condensates
Diamond Scribing Pen	RS	394-217	
Difluoro-4-hydroxybenzylidene imidazolidinone (DFHBI)	Sigma-Aldrich	SML1627	
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	472301	
Eppendorf PCR Clean Colorless Safe-Lock Centrifuge Tubes	Fisher Scientific	0030123301	0.5 mL microcentrifuge tubes for the preparation of C-star mixtures
Ethanol Absolute 99.8+%	Fisher Scientific	10437341	70% ethanol is sufficient for cleaning purposes
Fisherbrand ZX4 IR Vortex Mixer	Fisherbrand	13284769	
Hellmanex III	Hellma	9-307-011-4-507	
Hollow Rectangle Capillaries ID 0.40 x 4.00 mm, 50 mm in length	CM Scientific	2540-50	
Mineral oil	Sigma-Aldrich	69794	
Mini Centrifuge, 230 V	PRISM(TM)	Z763128	
NaCl	Sigma-Aldrich	S3014	
NanoDrop One Spectrophotometer	Thermo Fisher Scientific	ND-ONE-W	Used to measure absorbance of oligonucleotides for concentration calculations
Oligonucleotides	Integrated DNA Technologies	Custom	Oligonucleotide sequences are unique to the C-star design required.

ScriptGuard RNase inhibitor	CELLSCRIPT	C-SRI6310K	RNase inhibitor
T7-FlashScribe Transcription Kit	Cambio	C-ASF3507	
Tris-EDTA buffer, 100x stock solution	Sigma-Aldrich	574793	
UltraPure DNase/RNase-Free Distilled Water	Invitrogen	10977035	
VWR Spec-Wipe 3 Wipers	VWR	21914-758	