

Materials List for:

The Encapsulation of Cell-free Transcription and Translation Machinery in Vesicles for the Construction of Cellular Mimics

Amy C. Spencer¹, Paola Torre¹, Sheref S. Mansy¹

¹Centre for Integrative Biology, University of Trento

Correspondence to: Sheref S. Mansy at mansy@science.unitn.it

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Materials

Name	Company	Catalog Number	Comments
Quick Spin Mini-prep kit	Qiagen	27104	
Spectrometer	NanoDrop 1000	NDB767ND	
POPC	Avanti Polar Lipids	770557	MW 760 g/mol Transition Temp -2 °C CAS# 26853-31-6
Ethanol	Sigma Aldrich	459836	Anhydrous, >99.5%
Phenol-chloroform-isoamyl alcohol 25:24:1, for molecular biology use	Sigma Aldrich	P3803-100mL	Saturated with 10 mM Tris, pH 8.0, 1 mM EDTA
Chloroform	Biotech Grade Fluka	496189-1L	Contain ethanol at 0.5-1.0% v/v as stabilizer
Brown amber glass bottles	VWR	89043-518	55X 48 mm
Rotary evaporator	Buchi Rotovapor R-210/Sigma	Z563846EU-1EA	With jack and water bath, 29/32 joint 240 V
Analog vortex mixer	VWR	945300	Speed 1,000-3,200 rpm
Homogenizer	IKA T10 Basic Ultra-Turbax	3420000	
Mini-extruder	Avanti Polar Lipids	610020	
Extruder filters	Whatman	610014	drain disc 10 mm
Extruder polycarbonate membrane 400 nm	Whatman	61007	nuclepore polycarbonate
Speed vacuum	Labconco	7970011	Centrtrap DNA concentrator
PURExpress kit	New England Biolabs	NRM #E6800S	
RNAse inhibitor (40,000 U/ml)	New England Biolabs	#M0307S	
Proteinase K (20.2 mg/ml)	Fermentas	#EO0491	
Microscope	Zeiss Observer Z1with a AxioCam MRm camera		
RealTime	CFX96 Real time PCR Detection System (Biorad)		
Silicon press to seal -Molecular Probe	Life Technologies	P18174	Resistant from -25-30 °C
Siliconized glass circle cover slides	Hampton Research	HR3-231	Diameter= 22 mm
ImageJ	NIH		