

Materials List for:

# Atomic Scale Structural Studies of Macromolecular Assemblies by Solid-state Nuclear Magnetic Resonance Spectroscopy

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URL: <https://www.jove.com/video/55779>

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## Materials

Name	Company	Catalog Number	Comments
<b>Instruments</b>			
NMR Spectrometer (> 11.7 Tesla)	Bruker	-	
triple resonance MAS SSNMR probehead	Bruker	-	
SSNMR rotors 4mm	Bruker	K1910	
Centrifuge 5804 R	Eppendorf	5805000629	
GeneQuant 1300 spectrometer	Dutscher	28-9182-13	
IGS60 INCUBATEUR HERATHERM 75 L	Dutscher	228001	
MaxQ 4450 bench top orbital shaker	Dutscher	78376	
Tube Revolver Agitator	Dutscher	79547	
sonopuls HD 3100	Bandelin	3680	
MicroPulser electroporator	Biorad	165-2100	
mini-PROTEAN tetra cell system	Biorad	165-8000	
AKTA pure system	GE Healthcare	29-0182-24	
capillary microman M25 pipet	Gilson	F148502	
Name	Company	Catalog Number	Comments
<b>Materials</b>			
amicon <sup>R</sup> ultra-15	sigma	Z740199-8EA	
capillaries and pistons	Gilson	F148112	
spatula	Fisher	13263799	
Name	Company	Catalog Number	Comments
<b>Reagents</b>			
D-glucose <sup>13</sup> C <sub>6</sub>	Sigma	389374	
Ammonium-15N-chloride	Sigma	299251	
1,3 <sup>13</sup> C <sub>2</sub> glycerol	Sigma	492639	
2 <sup>13</sup> C glycerol	Sigma	489484	
Kanamycin	Sigma	K1876	
Carbenicillin	Sigma	C3416	
Sodium phosphate dibasic	Sigma	S7907	
Potassium phosphate monobasic	Sigma	P5655	
Sodium chloride	Sigma	71380	
calcium chloride	Sigma	C1016	

Magnesium sulfate	Sigma	208094	
Iron Chloride	Sigma	157740	
Zinc chloride	Sigma	793523	
MEM Vitamin Solution (100×)	Sigma	M68954	
IPTG	Fisher	BP1755	
Trizma base	Sigma	T1503	
Tricine	Sigma	T0377	
SDS	Sigma	436143	
sodium azide	sigma	71289	
4,4-dimethyl-4-silapentane-1-sulfonic acid	Sigma	178837	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Softwares</b>			
Unicorn 6.3	GE Healthcare		Akta systems
ccpNMR	CCPN		spectrometer systems