

Materials List for:

# Non-aqueous Electrode Processing and Construction of Lithium-ion Coin Cells

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## Materials

Name	Company	Catalog Number	Comments
LiNiMnCoO <sub>2</sub> (NMC, 1:1:1)	Targray	PLB-H1	
CNERGY Super C-65	Timcal		
Polyvinylidene Difluoride (PVDF)	Kynar	Flex 2801	
1-Methyl-2-pyrrolidinone anhydrous, 99.5% NMP	Sigma-Aldrich	328634	
1.0 M LiPF <sub>6</sub> in EC/DEC (1:1 by vol)	BASF	50316366	
Celgard 2500 Separator	MTI	EQ-bsf-0025-60C	25 µm thick; Polypropylene
Aluminum Foil	MTI	EQ-bcaf-15u-280	
Lithium Ribbon	Sigma Aldrich	320080	0.75 mm thickness
2-Propanol, ACS reagent, ≥99.5%	Sigma Aldrich	190764	
Acetone, ACS reagent, ≥99.5%	Sigma Aldrich	179124	
Stainless Steel CR2032 Coin Cell Kit	Pred Materials		case, cap, and PP gasket
Stainless Steel Spacer	Pred Materials		15.5 mm diameter x 0.5 mm thickness
Stainless Steel Wave Spring	Pred Materials		15 mm diameter x 1.4 mm height
Analytical Scale	Ohaus	Adventurer AX	
Agate Mortar and Pestle	VWR	89037-492	5 inch diameter
Tube Drive	IKA	3645000	
20 ml Stirring Tube	IKA	3703000	
Glass balls	McMaster-Carr	8996K25	6 mm diameter
Automatic Film Applicator	Elcometer	K4340M10-	
Doctor Blade	Elcometer	K0003580M005	
Die Set	Mayhew	66000	
Vacuum Oven	MTI		
Vacuum Pump	MTI		
Laboratory Press	MTI	YLJ-12	
Hydraulic Crimper	MTI	MSK-110	
Glovebox	MBraun	LABstar	
Battery Cycler	Arbin Instruments	BT2000	
Potentiostat/Galvanostat/EIS	Biologic	VMP3	