

Materials List for:

Preparing Silica Aerogel Monoliths via a Rapid Supercritical Extraction Method

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URL: <https://www.jove.com/video/51421>

DOI: [doi:10.3791/51421](https://doi.org/10.3791/51421)

Materials

Name	Company	Catalog Number	Comments
Tetramethylorthosilicate (TMOS)	Sigma Aldrich	218472-500G	98% purity, CAS 681-84-5
Methanol (MeOH)	Fisher Scientific	A412-20	Certified ACS Reagent Grade, ≥99.8%
Ammonium Hydroxide (aqueous ammonia)	Fisher Scientific	A669S212	Certified ACS Plus, about 14.8 N, 28.0-20.0 w/w%
Deionized Water	on tap in house		
Flexible Graphite Sheet	Phelps Industrial Products	7500.062.3	1/16 in thick
Stainless Steel Foil	Various		0.0005 in thick, 304 Stainless Steel
High Temperature Mold Release Spray	various (for example, CRC Industrial Dry PTFE Lube)		Should be able to withstand high temperatures.