

Materials List for:

## Preparation of Functional Silica Using a Bioinspired Method

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### Materials

Name	Company	Catalog Number	Comments
<b>Silica synthesis</b>			
Sodium silicate pentahydrate	Fisher scientific	10070470	
Pentaethylene hexamine (PEHA)	Sigma-Aldrich	292753	
Diethylenetriamine (DETA)	Sigma-Aldrich	D93856	Toxic
Triethylenetetraamine (TETA)	Sigma-Aldrich	90460	
Poly(ethyleneimine) (PEI)	Polysciences	6088	1.2K MW
Poly(allylamine hydrochloride) (PAH)	Sigma-Aldrich	283215	17.5k MW
Bovine Serum Albumin (BSA)	Sigma-Aldrich	A2153	
Hydrochloric acid (HCl) 1M	Fisher Scientific	10487830	
<b>Silicomolybdic acid assay</b>			
Ammonium molybdate tetrahydrate	Sigma-Aldrich	A7302	Product replaced by M1019
Hydrochloric acid (HCl) 37.0%wt	Fluka Analytical	84436	
Anhydrous oxalic acid	Sigma-Aldrich	75688	
Para-aminophenol sulphate	Fisher Scientific	10446880	
Sodium sulphite	Fisher Scientific	10234400	
Sulphuric acid	Sigma-Aldrich	84727	
<b>Bradford assay</b>			
Bradford reagent	Sigma-Aldrich	B6916	
<b>Equipment</b>			
Autotitrator Titrand 902	Metrohm	2.902.0010	
801 magnetic stirrer plate	Metrohm	2.801.0040	For use with above
800 Dosino	Metrohm	2.800.0010	For use with above
Aquatrode Plus	Metrohm	6.0253.100	For use with above
Centrifuge Sorvall ST16	Thermo Scientific	11814243	Code is for Fisher scientific
UV-Vis spectrophotometer Genesys 10A	Thermo scientific	12104972	Code is for Fisher scientific