

Materials List for:

Sample Preparation in Quartz Crystal Microbalance Measurements of Protein Adsorption and Polymer Mechanics

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Materials

Name	Company	Catalog Number	Comments
Acetic acid	Sigma-Aldrich	A6283	For collagen adsorption
Ammonium hydroxide solution	Sigma-Aldrich	221228	For collagen adsorption
Aqueous QCM probe	AW Sensors	CLS 00050 A	For polyelectrolyte swelling
Collagen I Rat Protein, Tail	Thermo Fisher Scientific	A1048301	For collagen adsorption
Distilled water	Sigma-Aldrich	EM3234	For polyelectrolyte swelling; generally easy to acquire in research labs, but there is a catalog number in case it is not accessible
Ethanol	Sigma-Aldrich	793175-1GA-PB	For polyelectrolyte swelling
Gibco Phosphate Buffered Saline	Thermo Fisher Scientific	20012-027	For collagen adsorption
Hellmanex III	Sigma-Aldrich	Z805939	For collagen adsorption
Hydrogen peroxide solution	Sigma-Aldrich	216763	For collagen adsorption
Kimberly-Clark Professional Kimtech Science Kimwipes Delicate Task Wipers, 1-Ply	Fisher Scientific	06-666A	For polyelectrolyte swelling
NP2K VNA	Makarov Instruments		For polyelectrolyte swelling
Poly(diallyldimethylammonium chloride), MW 200,000	Sigma-Aldrich	409022	For polyelectrolyte swelling; for full synthesis procedure see Sadman et al.
Poly(styrene-sulfonate) sodium salt 30% weight in water	Sigma-Aldrich	561967-500G	For polyelectrolyte swelling; for full synthesis procedure see Sadman et al.
Potassium Bromide	Sigma-Aldrich	793604-1KG	For polyelectrolyte swelling
QSense QCM Explorer System	Biolin Scientific		For collagen adsorption
Sodium acetate, anhydrous	Sigma-Aldrich	S2889	For collagen adsorption
Spin coater, Model WS-650MZ-23NPP	Laurell technologies		For polyelectrolyte swelling