

Materials List for:

Low Molecular Weight Protein Enrichment on Mesoporous Silica Thin Films for Biomarker Discovery

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Materials

Name	Company	Catalog Number	Comments
Tetraethoxysilane	Sigma-Aldrich	131903	98%
Spin coater	Brewer Science, Inc.	Cee 200X	
Plasma Asher	Nordson March	AP-600	
Spectroscopic Ellipsometer	J. A. Woollam Co.	M-2000DI	
MALDI-TOF	Applied Biosystems	Voyager-DE-STR	
α -cyano-4-hydroxycinnamic acid	Sigma-Aldrich	C8982	Matrix for MALDI-TOF
trans-3,5-dimethoxy-4-hydroxycinnamic acid	Sigma-Aldrich	85429	Matrix for MALDI-TOF
Stir hot plate	Thermo Fisher Scientific, Inc.	11-475-30Q	
CultureWell chambered coverglass	Sigma-Aldrich	GBL103350	3 mm diam. \times 1 mm depth, 3-10 μ L, sterile
Pluronic F 127	BASF		PEO ₁₀₆ -PPO ₇₀ -PEO ₁₀₆
Pluronic L 121	BASF		PEO ₅ -PPO ₇₀ -PEO ₅
Pluronic P123	BASF		PEO ₂₀ -PPO ₇₀ -PEO ₂₀

Table 1. Physico-chemical properties and designed concentrations (Molecular weight and Iso-electric point) of the selected peptide and protein standards.