

Materials List for:

# Mass Spectrometric Approaches to Study Protein Structure and Interactions in Lyophilized Powders

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## Materials

Name	Company	Catalog Number	Comments
Equine myoglobin	Sigma-Aldrich	M0630-5G	
D-(+)-Trehalose dihydrate	Sigma Aldrich	#T9531	
D-Sorbitol	Sigma Aldrich	#240850	
L-Photo-leucine	Thermo Scientific	#22610	
Potassium phosphate monobasic	Sigma-Aldrich	#P0662	
Potassium phosphate dibasic	Sigma-Aldrich	#P3786	
Deuterium Oxide	Cambridge Isotope Laboratories	#DLM-4-PK	Alternate (Cat. No.: 151882, Sigma-Aldrich)
Immobilized pepsin	Applied Biosystems	#2-3132-00	
Trypsin	Promega	#V511A	Chymotrypsin (Cat. No.: #V1062, Promega) can be additionally used
Water, Optima LC/MS grade	Fisher Chemical	#7732-18-5	
Acetonitrile	Sigma-Aldrich	#34998	
Formic acid	Thermo Scientific	#28905	
ESI-TOF Calibrant	Agilent Technologies	#G1969-85000	Highly flammable liquid
Protein microtrap	Michrom Bioresources	TR1/25108/03	
Peptide microtrap	Michrom Bioresources	TR1/25109/02	
Analytical column	Agilent Technologies	Zorbax 300SB-C18	
Freeze dryer	VirTis AdVantage Plus		
Stratalinker equipped with five 365 nm lamps	Stratagene Corp.	Stratalinker 2400	
HPLC	Agilent Technologies	1200 series LC	Refrigerated LC system for HDX-MS
ESI-qTOF MS	Agilent Technologies	6520 qTOF	
HDExaminer (HDX-MS data analysis software)	Sierra Analytics		<a href="http://www.massspec.com/HDExaminer.html">http://www.massspec.com/HDExaminer.html</a>