

Materials List for:

Ion Mobility-Mass Spectrometry Techniques for Determining the Structure and Mechanisms of Metal Ion Recognition and Redox Activity of Metal Binding Oligopeptides

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Materials

Name	Company	Catalog Number	Comments
acetonitrile HPLC-grade	Fisher Scientific (www.Fishersci.com)	A998SK-4	
ammonium hydroxide (trace metal grade)	Fisher Scientific (www.Fishersci.com)	A512-P500	
cobalt(II) chloride hexahydrate 99.99%	Sigma-Aldrich (www.sigmaaldrich.com)	255599-5G	
copper(II) chloride 99.999%	Sigma-Aldrich (www.sigmaaldrich.com)	203149-10G	
copper(II) nitrate hydrate 99.99%	Sigma-Aldrich (www.sigmaaldrich.com)	229636-5G	
designed amb1,2,3,4,5,6,7 peptides	Neo BioLab (neobiolab.com)		designed peptides were synthesized by order
designed amb5B,C,D,E,F peptides	PepmicCo (www.pepmic.com)		designed peptides were synthesized by order
Driftscope 2.1 software program	Waters (www.waters.com)		software analysis program
Freeze-dried, purified, Cu(I)-free mb-OB3b			cultured and isolated in the lab of Dr. DongWon Choi (Biology Department, Texas A&M-Commerce)
glacial acetic acid (Optima grade)	Fisher Scientific (www.Fishersci.com)	A465-250	
Iron(III) Chloride Anhydrous 98%+	Alfa Aesar (www.alfa.com)	12357-09	
lead(II) nitrate ACS grade	Avantor (www.avantormaterials.com)	128545-50G	
manganese(II) chloride tetrahydrate 99.99%	Sigma-Aldrich (www.sigmaaldrich.com)	203734-5G	
MassLynx 4.1	Waters (www.waters.com)		software analysis program
nickel chloride hexahydrate 99.99%	Sigma-Aldrich (www.sigmaaldrich.com)	203866-5G	
poly-DL-alanine	Sigma-Aldrich (www.sigmaaldrich.com)	P9003-25MG	
silver nitrate 99.9%+	Alfa Aesar (www.alfa.com)	11414-06	
Waters Synapt G1 HDMS	Waters (www.waters.com)		quadrupole - ion mobility- time-of-flight mass spectrometer
zinc chloride anhydrous	Alfa Aesar (www.alfa.com)	A16281	