

Materials List for:

Large-scale Top-down Proteomics Using Capillary Zone Electrophoresis Tandem Mass Spectrometry

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Materials

Name	Company	Catalog Number	Comments
Fused silica capillary	Polymicro Technologies	1068150017	50 µm i.d. 360 µm o.d.
Sodium hydroxide pellets	Macron Fine Chemicals	7708-10	Corrosive
LC-MS grade water	Fisher Scientific	W6-1	
Hydrochloric acid	Fisher Scientific	SA48-1	Corrosive
Methanol	Fisher Scientific	A456-4	Toxic, Health Hazard
3-(Trimethoxysilyl)propyl methacrylate	Sigma-Aldrich	M6514	Moisture and heat sensitive
Hydrofluoric acid	Acros Organics	423805000	Highly toxic
Acrylamide	Acros Organics	164855000	Toxic, health hazard
Ammonium persulfate	Sigma-Aldrich	A3678	Health hazard, Oxidizer
lysozyme	Sigma-Aldrich	L6876	
Cytochrome C	Sigma-Aldrich	C7752	
Myoglobin	Sigma-Aldrich	M1882	
β-casein	Sigma-Aldrich	C6905	
Carbonic anhydrase	Sigma-Aldrich	C3934	
Bovine serum albumin	Sigma-Aldrich	A2153	
Urea	Alfa Aesar	36428-36	
DL-Dithiothreitol	Sigma-Aldrich	D0632	Health Hazard
Iodoacetamide	Fisher Scientific	AC122270250	Health Hazard
Formic Acid	Fisher Scientific	A117-50	Corrosive, Health Hazard
C4 trap column	Sepax Technologies	110043-4001C	3 µm particles, 300 Å pores, 4.0 mm i.d. 10 mm long
Acetonitrile	Fisher Scientific	A998SK-4	Toxic, Oxidizer
Ammonium bicarbonate	Sigma-Aldrich	1066-33-7	
Nalgene rapid-flow filters	Thermo Scientific	126-0020	0.2 µm CN membrane, and 50 mm diameter
E. coli cells			K-12 MG1655
Dulbecco's phosphate-buffered saline	Sigma-Aldrich	D8537	
BCA assay	Thermo Scientific	23250	
Acetone	Fisher Scientific	A11-1	
HPLC system for protein desalting	Agilent	1260 Infinity II	
Acetic Acid	Fisher Scientific	A38-212	

CE autosampler	CMP Scientific	ECE-001	
Electro-kinetically pumped sheath flow interface	CMP Scientific		
Q Exactive HF Hybrid Quadrupole-Orbitrap Mass Spectrometer	Thermo Fisher Scientific		
Sutter flaming/brown micropipette puller	Sutter Instruments	P-1000	
Ultrasonic cell disruptor for cell lysis	Branson	101063196	Model S-250A
Vaccum concentrator	Thermo Fisher Scientific	SPD131DDA-115	