

Materials List for:

In Vivo Hydroxyl Radical Protein Footprinting for the Study of Protein Interactions in *Caenorhabditis elegans*

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Materials

Name	Company	Catalog Number	Comments
15mL Conical Centrifuge Tubes	Fisher Scientific	14-959-53A	any brand is sufficient
5 mL Gas Tight Syringe, Removable Luer Lock	SGE Analytical Science	008760	2 minimum
60 Sonic Dismembrator	Fisher Scientific	FM3279	This item is no longer available. Any low-volume sonicator will be sufficient
Acetone, HPLC Grade	Fisher Scientific	A929-4	4 L quantity is not necessary
Acetonitrile with 0.1% Formic Acid (v/v), LC/MS Grade	Fisher Scientific	LS120-500	
ACQUITY UPLC M-Class Symmetry C18 Trap Column, 100Å, 5 µm, 180 µm x 20 mm, 2G, V/M, 1/pkg	Waters	186007496	
ACQUITY UPLC M-Class System	Waters		
Aluminum Foil	Fisher Scientific	01-213-100	any brand is sufficient
Aqua 5 µm C18 125 Å packing material	Phenomenex		
Centrifuge	Eppendorf	022625501	
Delicate Task Wipers	Fisher Scientific	06-666A	
Dissecting Needle	Fisher Scientific	50-822-525	only a couple are needed
Dithiothreitol (DTT)	AmericanBio	AB00490-00005	
DMSO, Anhydrous	Invitrogen	D12345	
Epoxy instant mix 5 minute	Loctite	1365868	
Ethylenediaminetetraacetic acid (EDTA)	Fisher Scientific	S311-100	
EX350 excimer laser (248 nm wavelength)	GAM Laser		
FEP Tubing 1/16" OD x 0.020" ID	IDEX Health & Science	1548L	
Formic Acid, LC/MS Grade	Fisher Scientific	A117-50	
HEPES	Fisher Scientific	BP310-500	
HV3-2 VALVE	Hamilton	86728	2 minimum
Hydrochloric Acid	Fisher Scientific	A144S-500	
Hydrogen Peroxide	Fisher Scientific	H325-100	any 30% hydrogen peroxide is sufficient
Iodoacetamide (IAA)	ACROS Organics	122270050	
Legato 101 syringe pump	KD Scientific	788101	
Luer Adapter Female Luer to 1/4-28 Male Polypropylene	IDEX Health & Science	P-618L	2 minimum

Magnesium Sulfate	Fisher Scientific	M65-500	
Methanol, LC/MS Grade	Fisher Scientific	A454SK-4	4 L quantity is not necessary
Microcentrifuge	Thermo Scientific	75002436	
N,N'-Dimethylthiourea (DMTU)	ACROS Organics	116891000	
NanoTight Sleeve Green 1/16" ID x .0155" ID x 1.6"	IDEX Health & Scienc	F-242X	
NanoTight Sleeve Yellow 1/16" OD x 0.027" ID x 1.6"	IDEX Health & Scienc	F-246	
N-tert-Butyl- α -phenylnitron (PBN)	ACROS Organics	177350250	
OmniPur Phenylmethyl Sulfonyl Fluoride (PMSF)	Sigma-Aldrich	7110-OP	any protease inhibitor is sufficient
Orbitrap Fusion Lumos Tribrid Mass Spectrometer	Thermo Scientific		other high resolution instruments (e.g. Q exactive Orbitrap or Orbitrap Fusion) can be used
PE50-C pyroelectric energy meter	Ophir Optronics	7Z02936	
Pierce Quantitative Colorimetric Peptide Assay	Thermo Scientific	23275	
Pierce Rapid Gold BCA Protein Assay Kit	Thermo Scientific	A53225	
Pierce Trypsin Protease, MS Grade	Thermo Scientific	90058	
Polymicro Cleaving Stone, 1" x 1" x 1/32"	Molex	1068680064	any capillary tubing cutter is sufficient
Polymicro Flexible Fused Silica Capillary Tubing, Inner Diameter 250 μ m, Outer Diameter 350 μ m, TSP250350	Polymicro Technologies	1068150026	
Polymicro Flexible Fused Silica Capillary Tubing, Inner Diameter 450 μ m, Outer Diameter 670 μ m, TSP450670	Polymicro Technologies	1068150625	
Polymicro Flexible Fused Silica Capillary Tubing, Inner Diameter 75 μ m, Outer Diameter 375 μ m, TSP075375	Polymicro Technologies	1068150019	
Potassium Phosphate Monobasic	Fisher Scientific	P382-500	
Proteome Discover (bottom-up proteomics software)	Thermo Scientific	OPTON-30799	
Rotary Magnetic Tumble Stirrer	V&P Scientific, Inc.	VP 710D3	
Rotary Magnetic Tumble Stirrer, accessory kit for use with Syringe Pumps	V&P Scientific, Inc.	VP 710D3-4	
Scissors	Fisher Scientific	50-111-1315	any scissors are sufficient
Self-Adhesive Label Tape	Fisher Scientific	15937	one roll is sufficient
Snap-Cap Microcentrifuge Flex-Tube Tubes	Fisher Scientific	05-402	any brand is sufficient
Sodium Chloride	Fisher Scientific	S271-500	
Sodium Dodecyl Sulfate (SDS)	Fisher Scientific	15-525-017	
Sodium Phosphate Dibasic Heptahydrate	Fisher Scientific	S373-500	
Stereo Zoom Microscope	Fisher Scientific	03-000-014	a magnifying glass is sufficient
Super Flangeless Ferrule w/SST Ring, Tefzel (ETFE), 1/4-28 Flat-Bottom, for 1/16" OD	IDEX Health & Scienc	P-259X	

Super Flangeless Nut PEEK 1/4-28 Flat-Bottom, for 1/16" & 1/32" OD	IDEX Health & Sciene	P-255X	
Super Tumble Stir Discs, 3.35 mm diameter, 0.61 mm thick	V&P Scientific, Inc.	VP 722F	
Tris Base	Fisher Scientific	BP152-500	
Universal Base Plate, 2.5" x 2.5" x 3/8"	Thorlabs Inc.	UBP2	
Urea	Fisher Scientific	U5378	
VHP MicroTight Union for 360µm OD	IDEX Health & Sciene	UH-436	2 minimum
Water with 0.1% Formic Acid (v/v), LC/MS Grade	Fisher Scientific	LS118-500	
Water, LC/MS Grade	Fisher Scientific	W6-4	