

# Comprehensive Workflow of Mass Spectrometry-based Shotgun Proteomics of Tissue Samples

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jove.com/video/61786

## Materials

Name	Company	Catalog Number	Comments
<b>Reagents</b>			
Acetonitrile (MS grade)	Fisher Scientific	A/0620/21	
Bovine Serum Albumin	HiMedia	TC194-25G	
Calcium chloride	Fischer Scientific	BP510-500	
Formic acid (MS grade)	Fisher Scientific	147930250	
Iodoacetamide	Sigma	1149-25G	
Isopropanol (MS grade)	Fisher Scientific	Q13827	
Magnesium Chloride	Fischer Scientific	BP214-500	
Methanol (MS grade)	Fisher Scientific	A456-4	
MS grade water	Pierce	51140	
Phosphate Buffer Saline	HiMedia	TL1006-500ML	
Protease inhibitor cocktail	Roche Diagnostics	11873580001	
Sodium Chloride	Merck	DF6D661300	
TCEP	Sigma	646547	
Tris Base	Merck	648310	
Trypsin (MS grade)	Pierce	90058	
Bradford Reagent	Bio-Rad	5000205	
Urea	Merck	MB1D691237	
<b>Supplies</b>			
Hypersil Gold C18 column	Thermo	25002-102130	
Micropipettes	Gilson	F167380	
Stage tips	MilliPore	ZTC18M008	
Zirconia/Silica beads	BioSpec products	11079110z	
<b>Equipment</b>			
Bead beater (Homogeniser)	Bertin Minilys	P000673-MLYS0-A	
Microplate reader (spectrophotometer)	Thermo	MultiSkan Go	

pH meter	Eutech	CyberScan pH 510	
Probe Sonicator	Sonics Materials, Inc	VCX 130	
Shaking Drybath	Thermo	88880028	
Orbitrap Fusion mass spectrometer	Thermo	FSN 10452	
Nano LC	Thermo	EASY-nLC1200	
Vacuum concentrator	Thermo	Savant ISS 110	
<b>Software</b>			
Proteome Discoverer	Thermo	Proteome Discoverer 2.2.0.388	