

Materials List for:

Quantitative Proteomics Using Reductive Dimethylation for Stable Isotope Labeling

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Materials

Name	Company	Catalog Number	Comments
Trichloroacetic acid	Sigma-Aldrich	T9159	protein precipitation
Acetone	Sigma-Aldrich	650501	protein precipitation
Sodium dodecyl sulfate	Sigma-Aldrich	71736	denature, reduce protein
Sodium hydroxide	Sigma-Aldrich	S8045	denature, reduce protein
DL-Dithiothreitol	Sigma-Aldrich	43816	denature, reduce, alkylate protein
Protease Inhibitor Complete Mini Cocktail	Roche	4693124001	denature, reduce protein
Iodoacetamide	Sigma-Aldrich	I6125	alkylate protein
HEPES	Sigma-Aldrich	H7523	resuspend, extract, label protein
Calcium chloride	Sigma-Aldrich	C5670	resuspend protein
Lysyl Endoprotease	Wako Chemicals	129-02541	protein digestion
Sequencing grade trypsin	Promega	V5111	protein digestion
Acetic acid	Sigma-Aldrich	320099	protein digestion
Trifluoroacetic acid	Sigma-Aldrich	299537	Reversed-phase peptide extraction
tC18 Sep-Pak C18 cartridges	Waters	WAT054960	Reversed-phase peptide extraction
Extraction manifold	Waters	WAT200609	Reversed-phase peptide extraction
Acetonitrile	Sigma-Aldrich	14261	various
Formaldehyde	Sigma-Aldrich	252549	"light" peptide labeling
Cyanoborohydride	Sigma-Aldrich	71435	"light" peptide labeling
Deuterated formaldehyde	Sigma-Aldrich	492620	"heavy" peptide labeling
Sodium cyanoborodeuteride	CDN isotopes	D-1797	"heavy" peptide labeling
MES	Sigma-Aldrich	M3671	peptide labeling
C18-HPLC column (4.6 x 250 mm, 5 µm particle size)	Agilent	770450-902	basic pH reversed-phase chromatography
Formic acid	Sigma-Aldrich	399388	various
C18 Empore Disks	3M	14-386-3	STAGE tips
Methanol	Sigma-Aldrich	494437	STAGE tips