

Materials List for:

Quantification of Site-specific Protein Lysine Acetylation and Succinylation Stoichiometry Using Data-independent Acquisition Mass Spectrometry

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Materials

Name	Company	Catalog Number	Comments
aqueous acetic anhydride- <i>d</i> ₆	Sigma Aldrich, St. Louis, MO, USA	175641-1G	1% isotopic purity
succinic anhydride- <i>d</i> ₄	Sigma Aldrich, St. Louis, MO, USA	293741	2% isotopic purity
sequencing grade endoproteinase Glu-C	Roche, Indianapolis, IN, USA (through Sigma)	10791156001	1:50 protease to substrate protein ratio (wt:wt)
Oasis HLB Solid-Phase Extraction (SPE) cartridges	Waters Corp., Milford, MA, USA	WAT 094225	
HPLC acetonitrile	Burdick and Jackson, Muskegon, MI, USA	BJAH015-4	
HPLC grade water	Burdick and Jackson, Muskegon, MI, USA	BJAH365-4	
iodoacetamide	Sigma Aldrich, St. Louis, MO, USA	I1149-25G	
dithiothreitol (DTT)	Sigma Aldrich, St. Louis, MO, USA	D9779-5G	
FLUKA formic acid (FA) for mass spec	Thomas Scientific, Swedesboro, NJ, USA	C988C27	~98%
urea	Thermo Fisher Scientific, Waltham, MA, USA	PI29700	
bovine serum albumin (BSA)	Pierce, Rockford, IL, USA	88341	
triethylammonium bicarbonate (TEAB)	Sigma Aldrich, St. Louis, MO, USA	T7408-100ML	
anhydrous dimethyl sulfoxide (DMSO)	Alfa Aesar, Tewksbury, MA, USA	43998	
sodium hydroxide (NaOH)	EMD Millipore, Burlington, MA, USA	SX0590	
50% hydroxylamine solution in water	Sigma Aldrich, St. Louis, MO, USA	438227-50ML	
LC-MS grade water	Burdick and Jackson, Muskegon, MI, USA	BJLC365-4	
LC-MS acetonitrile	Burdick and Jackson, Muskegon, MI, USA	BJLC015-4	
Eppendorf Themomixer Compact	Eppendorf AG, Hamburg, Germany	T1317-1EA	
Thermo Scientific Savant SPD131DDA SpeedVac Concentrator	Thermo Fisher Scientific, Waltham, MA, USA	SPD131DDA-115	
Waters 1525 binary HPLC pump system	Waters Corp., Milford, MA, USA	WAT022939	
Waters 2487 Dual Wavelength UV detector	Waters Corp., Milford, MA, USA	WAT081110	
Waters 717plus Autosampler	Waters Corp., Milford, MA, USA	WAT022939	
Waters Fraction Collector III	Waters Corp., Milford, MA, USA	186001878	

Agilent Zorbax 300Extend C18 column	Agilent Technologies, Inc., Santa Clara, CA, USA	770995-902	
Labconco Freeze Dry System Freezone 4.5 Lyophilizer	Labconco, Kansas City MO, USA	7751000	
indexed retention time (iRT) normalization peptide standard	Biognosys AG, Schlieren, Zurich, Switzerland	Ki-3002-2	
Ultra Plus nano-LC 2D HPLC system	Sciex LLC, Eksigent Division, Framingham, MA, USA	model# 845	
orthogonal quadrupole time-of-flight (QqTOF) TripleTOF 5600 mass spectrometer	Sciex LLC, Framingham, MA, USA	per quote	
orthogonal quadrupole time-of-flight (QqTOF) TripleTOF 6600 mass spectrometer	Sciex LLC, Framingham, MA, USA	per quote	
C18 pre-column chip (200 μ m $\times$ 6 mm ChromXP C18-CL chip, 3 μ m, 300 Å)	Sciex LLC, Framingham, MA, USA	804-00006	
SWATH 2.0 plugin into PeakView 2.2	Sciex LLC, Framingham, MA, USA	software download Sciex	
Spectronaut	Biognosys AG, Schlieren, Zurich, Switzerland	Sw-3001	
C18-CL chip (75 μ m $\times$ 15 cm ChromXP, 3 μ m, 300 Å)	Sciex LLC, Framingham, MA, USA	804-00001	