

Materials List for:

# A Quantitative Glycomics and Proteomics Combined Purification Strategy

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## Materials

Name	Company	Catalog Number	Comments
Acetic Acid (50%)	Sigma Aldrich	45754	
Acetonitrile, HPLC grade	Burdick & Jackson	AH015-4	
Ammonium Bicarbonate	Sigma Aldrich	A6141	
Bradford Reagent	Sigma Aldrich	B6916	Alternative: Bicinchoninic acid kit (Sigma Aldrich BCA1)
Calcium chloride	Sigma Aldrich	C1016	
Centrifuge	Eppendorf	5804 R	Alternate centrifuges that reach 14,000 x g are suitable
DL-Dithiothreitol, 1 M in solution	Sigma Aldrich	646563	
Easy-nLC 1000	Thermo Scientific	LC120	Alternate nano or ultra high pressure LCs will produce similar data, such as: 1. Dionex UltiMate <sup>®</sup> 3000 LC (Thermo Scientific); 2. Acquity UPLC (Waters).
Floating Tube Rack	TedPella	20831-20	
Fetuin	New England Biolabs	P6042S	
Fisher Scientific Isotemp Standard Lab Ovens	Fisher Scientific	11-690-625F	Alternate incubators that reach 56 °C are suitable
Formic Acid	Sigma Aldrich	56302	
GE Microwave Oven	General Electric	57B5 E82904	Any microwave with adjustable power settings is suitable
INLIGHT Glycan Tagging Kit	Cambridge Isotope Laboratories	GTK-1000	The INLIGHT kit provides NAT and SIL versions of the P2GPN reagent.
Iodoacetamide	Sigma Aldrich	A3221	
Kinetix 2.6 mM, 100 Å, C <sub>18</sub> bulk stationary phase	Phenomenex	Bulk Media	Alternative: Any C <sub>18</sub> stationary phase 5 mM
Mascot Daemon Software and Server	Matrix Science		Alternative: Proteome Discoverer Software (Thermo Scientific)
Methanol, HPLC grade	Burdick & Jackson	AH230-4	
PicoFrit Self-Pack Column: 360 µm, OD 75 µm ID, 15 µm tip, non-coated, 5 per box, 50 cm	New Objective	1 5 PF360-75-15-N-5	
PNGase F (glycerol-free), 75,000 units/ml	New England BioLabs	P0705L	
Q Exactive HF Hybrid Quadrupole-Orbitrap Mass Spectrometer	Thermo Scientific		Alternate high mass accuracy (5 ppm) mass spectrometers will provide similar data
RNase B	New England Biolabs	P7817S	
Trypsin from Porcine Pancreas	Sigma Aldrich	T6567-5X	

Urea	Sigma Aldrich	51456	
Vacuum ConcentratorSavant SPD131DDA SpeedVac Concentrator	Thermo Scientific	SPD131DDA	Alternate vacuum concentrators are suitable
Vivacon 500 30 kDa Filters	Sartorius Stedim Biotech	VN01H22	Alternative: Amicon Ultra 0.5 Centrifugal Filter Units with Ultracel-10 kDa Membrane (Millipore UFC501096)
Water, HPLC grade	Burdick & Jackson	AH365-4	
Water, <sup>18</sup> O	Cambridge Isotope Laboratories	OLM-240-97-1	The addition of <sup>18</sup> O in the PNGase F digest step is optional and may not be necessary for deamidation studies completed with 95% confidence
Xcalibur 2.0	Thermo Scientific	XCALIBUR20	
Zwittergent Test Kit	Merck Millipore	693030	