

Materials List for:

Metabolic Glycoengineering of Sialic Acid Using *N*-acyl-modified Mannosamines

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Materials

Name	Company	Catalog Number	Comments
Cells	Sigma-Aldrich	92110411	
RPMI medium	Sigma-Aldrich	R8758	
75 ml tissue culture flasks	Greiner	690175	
48-well plates	Corning	3548	
FCS	PAA	A15-102	
Pen/Strep	Gibco	15140-122	
Trypsine	Gibco	15400-054	
EDTA	Roth	X986.1	
Tris	Serva	37190.03	
SDS	Roth	2326.2	
SDS-PAGE equipment (tanks, glassware etc., machine)	VWR	SDS Gel/Blot	
Acrylamide	Roth	3019.1	
Protein ladder	Fisher Scientific	267620	
Nitrocellulose	GE Healthcare	10600002	
Ponceau red	Roth	5938.2	
Milk powder	Roth	T145.3	
ECL	Millipore	WBLUF 0500	
0.5 ml Centrifugal Filter Unit with 3 kDa membrane	Merck-Millipore	UFC500324	
15 mL centrifuge tubes	Sigma-Aldrich (Corning)	CLS430791-500EA	
2-Mercaptoethanol	Sigma-Aldrich	M6250-10ML	
2-Propanol	Sigma-Aldrich	34965-1L	HPLC gradient grade
4,5-Methylenedioxy-1,2-phenylenediamine dihydrochloride	Sigma-Aldrich	D4784-50MG	
48 well, flat bottom tissue culture plate	Sigma-Aldrich (Corning)	CLS3548-100EA	
50 mL centrifuge tubes	Sigma-Aldrich (Corning)	CLS430829-500EA	
Acetonitrile	Sigma-Aldrich	34967-1L	HPLC gradient grade
Aprotinin from bovine lung	Sigma-Aldrich	A1153-10MG	lyophilized powder, 3-8 TIU/mg solid
Butyryl chloride	Sigma-Aldrich	109614-250G	
C18 RP column	Phenomenex	00F-4435-E0	110 Å, 3 µm particle size, 4.6 x 150 mm

D-Mannosamine hydrochloride	Sigma-Aldrich	M4670-1G	
Dulbecco's Phosphate Buffered Salt Solution	PAN Biotech	P04-36500	
Ethylenediaminetetraacetic acid	Sigma-Aldrich	E9884-100G	
Formic acid	Sigma-Aldrich	56302-50ML-GL	
Hydrochloric acid solution	Sigma-Aldrich	H1758-100ML	36.5-38.0%, in water
Leupeptin	Sigma-Aldrich	L2884-10MG	
Methanol	Carl-Roth	T169.2	HPLC gradient grade
N-Acetyl-D-mannosamine	Sigma-Aldrich	A8176-250MG	
N-Acetylneuraminic acid	Sigma-Aldrich	A0812-25MG	
N-Glycolylneuraminic acid	Sigma-Aldrich	G9793-10MG	
Phenylmethanesulfonyl fluoride	Sigma-Aldrich	P7626-250MG	
Propionyl chloride	Sigma-Aldrich	P51559-500G	
Safe-Lock Tubes, 1.5 mL, amber (light protection)	Eppendorf	30120191	
Safe-Lock Tubes, 1.5 mL, colorless	Eppendorf	30120086	
Sodium bisulfite solution	Sigma-Aldrich	13438-1L-R-D	40%, in water
Sodium chloride	Sigma-Aldrich	746398-500G-D	
Sodium hydroxide	Sigma-Aldrich	795429-500G-D	
Sodium hydroxide solution	Sigma-Aldrich	319511-500ML	1.0 M, in water
Sodium methoxide	Sigma-Aldrich	164992-5G	
Trifluoroacetic acid	Sigma-Aldrich	T6508-100ML-D	
Tris hydrochloride	Sigma-Aldrich	T5941-100G	
Trypsin 0.25 %/EDTA 0.02 % in PBS	PAN Biotech	P10-019100	
Water	Carl-Roth	T905.1	HPLC gradient grade
Silica Gel 60	Carl-Roth	9779.1	
HPLC	Agilent		
ESI-MSD-System	Agilent		