

Materials List for:

Chemo-enzymatic Synthesis of N-glycans for Array Development and HIV Antibody Profiling

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URL: <https://www.jove.com/video/55855>

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Materials

Name	Company	Catalog Number	Comments
Acetic acid	Sigma Aldrich	64197	
Acetonitrile	Sigma Aldrich	75058	
Acetic anhydride	Sigma Aldrich	108247	
Anhydrous magnesium sulfate	Sigma Aldrich	7487889	
Boron trifluoride ethyl etherate	Sigma Aldrich	109637	
Bovine serum albumin	Sigma Aldrich	9048468	
Bio-Gel P2 polyacrylamide	Bio-Rad	1504118	
Bis(cyclopentadienyl)hafnium(IV) dichloride	Sigma Aldrich	12116664	
β-1, 4 Galactosyl transferases from bovine milk	Sigma Aldrich	48279	
BioDot Cartesion technology with robotic pin SMP3 (Stealth Micro Spotting Pins)	Arrayit		
Cerium ammonium molybdate	TCI	C1794	
Cerium ammonium nitrate	Sigma Aldrich	16774213	
Clean glass slide	Schott		
Cytidine-5'-monophospho-N-acetylneuraminic acid	Sigma Aldrich	3063716	
Deuterated chloroform	Sigma Aldrich	865496	
Donkey Anti-Human IgG (Alexa Fluor647 conjugated)	Jackson Immuno Research, USA	709605098	
Dichloromethane	Sigma Aldrich	75092	
Diethylaminosulfur trifluoride	Sigma Aldrich	38078090	
Dimethylformamide	Sigma Aldrich	68122	
Ethyl acetate	Sigma Aldrich	141786	
Ethylene glycol	Acros Organic	107211	
FAST frame slide incubation chambers	Sigma Aldrich		
Guanosine 5'-diphospho-b-L-fucose disodium salt	Sigma Aldrich	15839700	
Lab tracer 2.0 software			Section 4 of the Protocol
GenePix Pro 4300A reader (microarray image analysis)	moleculardevices		www.moleculardevices.com
GraphPad Prism Software (Image processing)	GraphPad Software, Inc		http://www.graphpad.com/guides/prism/6/user-guide/
Lithium hydroxide	Sigma Aldrich	1310652	

Manganese chloride	Sigma Aldrich	7773015	
Methanol	Sigma Aldrich	67561	
N-butanol	Sigma Aldrich	71363	
Oxalic acid	Acros Organic	144627	
Palladium hydroxide	Sigma Aldrich	12135227	
Phosphate Buffered Saline	Thermo Fisher Scientific	10010023	
Pyridine	Sigma Aldrich	110861	
P-Toluene sulfonic acid monohydrate	Sigma Aldrich	773476	
Silver triflate	Sigma Aldrich	2923286	
Sodium bicarbonate	Sigma Aldrich	144558	
Sodium chloride	Sigma Aldrich	7647145	
Sodium hydrogen carbonate	Sigma Aldrich	144558	
Sodium methoxide	Sigma Aldrich	124414	
Sodium sulfate	Sigma Aldrich	7757826	
Toluene	Sigma Aldrich	108883	
Tris buffer	Amresco	N/A	Ultra-pure grade
Tween-20	Amresco	9005645	
Uridine diphosphate galactose (UDP-galactose)	Sigma Aldrich	137868521	