

Materials List for:

# Combined Genetic and Chemical Capsid Modifications of Adenovirus-Based Gene Transfer Vectors for Shielding and Targeting

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## Materials

Name	Company	Catalog Number	Comments
<b>Vector purification and chemical modification</b>			
Argon gas	Air liquide	local gas dealer	
Liquid Nitrogen	Air liquide	local gas dealer	
500 mL centrifuge tubes	Corning	431123	
Stericup Express Plus 0.22 µm	Millipore	SCGPU02RE	
Tris(2-carboxyethyl) phosphine (TCEP)	Sigma-Aldrich	C4706-10g	
2 mL (3mL) Norm Ject (syringes)	Henke Sass Wolf	4020.000V0	
Fine-Ject needles for single use (yellow 0.9 x 40 mm)	Henke Sass Wolf	4710009040	
Caesium chloride 99.999% Ultra Quality	Roth	8627.1	
Silica gel beads	Applichem	A4569.2500	
Methoxypolyethylene glycol maleimide - 750 (PEG mal-750)	Iris Biotech		store in silica gel beads at -80 °C
13.2 mL Ultra Clear Ultracentrifuge Tubes	Beckman Coulter	344059	only open in hood
PD-10 size exclusion chromatography column	GE Healthcare	17-0851-01	store at 4 °C
Hepes	AppliChem	A1069.1000	
SDS Ultrapure	AppliChem	A1112.0500	
Glycerol	AppliChem	A1123.1000	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Material for cell-culture</b>			
DPBS	PAN Biotech	P04-36500	
DMEM	PAN Biotech	P04-03590	
Trypsin/EDTA	PAN Biotech	P10-0231SP	
FBS Good	PAN Biotech	P40-37500	
Penicillin/Streptomycin	PAN Biotech	P06-07100	
Biosphere Filter Tips (various sizes)	Sarstedt		
Serological Pipettes (various sizes)	Sarstedt		
reaction tubes (various sizes)	Sarstedt		
TC plates 15cm	Sarstedt	83.3903	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>

<b>Material for silver staining protocol</b>			
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
Methanol	J.T.Baker	8045	
Ethanol absolute	AppliChem	1613,2500PE	
Acetic Acid	AppliChem	A0820,2500PE	
Formaldehyde 37%	AppliChem	A0877,0250	
Ethanol absolute	AppliChem	A1613,2500PE	
Sodium thiosulfate	AppliChem	1,418,791,210	
Silver nitrate	AppliChem	A3944.0025	
Sodium carbonate	AppliChem	A3900,0500	
<b>Special Lab Equipment</b>			
Desiccator	Nalgene	5311-0250	
Megafuge 40	Heraeus		
Roter for Megafuge TX750 + Adapter and Lids for 500 mL tubes	Heraeus		
Water bath	Conventional		
Ultracentrifuge e.g. Optima XPN-80	Beckman Coulter		
suitable Ultracentrifuge Rotor e.g. SW41	Beckman Coulter		
pH -Meter	Conventional		
Stand with clamps	Conventional		
Goose neck lamp	Conventional		
Over-head rotor	Conventional		
Thermal Block	Conventional		
Photometer (OD 260)	Conventional		