

Materials List for:

Methods Development for Blood Borne Macrophage Carriage of Nanoformulated Antiretroviral Drugs

Shantanu Balkundi^{*1}, Ari S. Nowacek^{*1}, Upal Roy¹, Andrea Martinez-Skinner¹, JoEllyn McMillan¹, Howard E. Gendelman¹

¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center

*These authors contributed equally

Correspondence to: Howard E. Gendelman at hegendel@unmc.edu

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Materials

Name	Type	Company	Catalog Number	Comments
nanoART Manufacture				
Indinavir sulfate	Reagent	Longshem Co., Shanghai, China	Cas # 157810-81-6	
Ritonavir	Reagent	China Shengda Pharmaceutical Company, China	Cas # 155213-67-5	
Atazanavir sulfate	Reagent	Gyma Laboratories of America INC	Cas # 198904-31-3	
Effavirenz	Reagent	Hetero Labs LTD, India	Cas # 154598-52-4	
PVA	Reagent	Sigma-Aldrich	P 8136	
SDS	Reagent	Bio-Rad	161-0301	
Sucrose	Reagent	Fluka	84097	
P188	Reagent	Sigma-Aldrich	P 1300	
mPEG 2000-DSPE	Reagent	Genzyme	LP-R4-039	
Dotap	Reagent	Avanti Polar Lipid, Inc	890890 P	
Hepes	Reagent	Sigma-Aldrich	83264	
PLGA 75:25	Reagent	Sigma-Aldrich	P1941	
Dichloromethane	Reagent	Acros Organics	75-09-2	
Mannitol	Reagent	Sigma-Aldrich	M9546	
CTAB	Reagent	Sigma-Aldrich	H 9151	
Analytical Balance	Tool	Denver Instrument		
T-18 Mixer	Tool	IKA		
Ultra Sonicator	Tool	Cole-Parmer		
Wet milling, MicroCer	Tool	Netzsch Fine Particle Technology, LLC		
Homogenizer, EmulsiFlex-C5	Tool	Avestin, Inc.		
Zetapotentiometer	Tool	Malvern Instruments		
Gas Manifold System	Tool	Victor Technologies		
In Vitro Testing				
DMEM	Reagent	Mediatech, Inc.	10-013-CV	
Gentamicin	Reagent	Invitrogen	15710-064	
Ciprofloxin	Reagent	Sigma-Aldrich	17850	
Human MCSF	Reagent	Miltenyi Biotec	130-093-964	

Pooled normal human serum	Reagent	Cole-Parmer	WU-88061-68	
6-well tissue culture plates	Tool	Corning	3524	
Methanol (HPLC Grade)	Reagent	Fisher Scientific	A452SK-4	
1.7 ml microcentrifuge tubes	Tool	National Scientific Company	CN1700GT	
Glutaraldehyde solution	Reagent	Sigma-Aldrich	49632	
Osmium tetroxide solution	Reagent	Sigma-Aldrich	75632	
Centrifuge 5417R	Tool	Eppendorf	022621807	
F-45-30-11 fixed angle rotor	Tool	Eppendorf	022636006	
HIV-1 _{ADA}	Reagent			
HIV-1 p24 mouse monoclonal antibody	Reagent	Dako	M0857	
Microscope slide cover slips	Tool	Fisher Scientific	12-548-5P	

Abbreviations used in the table: IDV: indinavir; RTV: ritonavir; ATV: atazanavir; EFV: efavirenz; PVA: polyvinylalcohol; SDS sodium dodecyl sulfate; P188: poloxamer 188 (also termed Pluronic F68); mPEG 2000-DSPE: methyl-poly(ethylene-glycol)1,2-distearoyl-phosphatidyl-ethanolamine; DOTAP: (1-oleoyl-2-[6-[(7-nitro-2-1,3-benzoxadiazol-4-yl) amino]hexanoyl]-3-trimethylammonium propane); PLGA: poly(lactico-glycolic acid); CTAB: cetyltrimethyl ammonium bromide; DMEM: Dulbecco's Modified Eagle Medium; MCSF: Macrophage Colony-Stimulating Factor; HPLC: high-pressure liquid chromatography; HIV-1: Human Immunodeficiency Virus-1