

Materials List for:

Uptake of New Lipid-coated Nanoparticles Containing Falcarindiol by Human Mesenchymal Stem Cells

Emma Pipó-Ollé¹, Prasad Walke², Martine K. Notabi¹, Rime B. El-Houri¹, Morten Østergaard Andersen¹, David Needham^{2,3,4}, Eva C. Arnsparang¹

¹Department of Chemical Engineering, Biotechnology and Environmental Technology, University of Southern Denmark

²Center for Single Particle Science and Engineering (SPSE), Institute for Molecular Medicine, Health Sciences, University of Southern Denmark

³Department of Mechanical Engineering and Material Science, Duke University

⁴School of Pharmacy, University of Nottingham

Correspondence to: Eva C. Arnsparang at arnspang@kbm.sdu.dk

URL: <https://www.jove.com/video/59094>

DOI: [doi:10.3791/59094](https://doi.org/10.3791/59094)

Materials

Name	Company	Catalog Number	Comments
12 mL Screw Neck Vial (Clear glass, 15-425 thread, 66 X 18.5 mm)	MicroLab Aarhus A/S	ML 33154LP	
6 well plates	Greiner Bio One International GmbH	657160	
Absolute Ethanol	EMD Millipore (VWR)	EM8.18760.1000	
Chloroform	Rathburn Chemicals Ltd.	RH1009	
Cholesterol	Avanti Polar Lipids, Inc.	700000P	
Confocal Microscope	Zeiss LSM510		
Cover Slips thickness #1.5	Paul Marienfeld GmbH & Co	117650	
Desiccator	Self-build		
Dil	Invitrogen	D282	
DLS	Beckman Coulter	DelsaMAXpro 3167-DMP	
DSPC (Chloroform stock)	Avanti Polar Lipids, Inc.	850365C	
DSPE PEG 2000 (Chloroform stock)	Avanti Polar Lipids, Inc.	880120C	
eVol XR	SGE analytical science, Trajan Scientific Australia Pty Ltd.	2910200	
Fetal Bovine serum	Gibco	10270-106	
Fluorescence Microscope	Olympus IX81		With Manual TIRF and Andor iXon EMCCD
Incubator	Panasonic	MCO-18AC	
Magnetic flea	VWR Chemicals	15 x 4.5 mm	Cylindrical shape with PTFE coating
Magnetic stirrer	IKA	RT-10	
Minimum Essential Media	Gibco	32561-029	
PBS tablets for cell culture	VWR Chemicals	97062-732	
Pen/strep	VWR Chemicals	97063-708	
Phosphate Buffer Saline (PBS, pH 7.4)	Thermo Fisher	10010031	
Rotary Evaporator	Rotavapor, Büchi Labortechnik AG	R-210	
Sample concentrator	Stuart, Cole-Parmer Instrument Company, LLC	SBHCONC/1	