

Materials List for:

# Fluorescence-quenching of a Liposomal-encapsulated Near-infrared Fluorophore as a Tool for *In Vivo* Optical Imaging

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## Materials

Name	Company	Catalog Number	Comments
<b>Materials and equipments for preparation of liposomes</b>			
egg phosphatidylcholine	Avanti Polar Lipids	840051P	Dissolve in chloroform and store in glass vials (214 mg/ml)
cholesterol	Sigma	C8667	Dissolve in chloroform and store in glass vials (134 mg/ml)
1,2-distearoyl- <i>sn</i> -glycero-3-phosphoethanolamine- <i>N</i> -[methoxy(polyethylene glycol)-2000] (ammonium salt)	Avanti Polar Lipids	880120P	Dissolve in chloroform and store in glass vials (122 mg/ml)
1,2-dioleoyl- <i>sn</i> -glycero-3-phosphoethanolamine- <i>N</i> -(7-nitro-2- <i>l</i> ,3-benzoxadiazol-4-yl) (ammonium salt)	Avanti Polar Lipids	810145P	Dissolve in chloroform and store in glass vials (2 mg/ml)
Sartorius MC1 (d = 0.01 mg)	Sartorius AG	Research RC 210 P	used for weighing the phospholipids
Rotavapor	Buchi Labortechnik AG	R-114	used for hydration of phospholipid film
Waterbath	Buchi Labortechnik AG	R-481	used for hydration of phospholipid film
Vacuum Controller	Buchi Labortechnik AG	B-720	used for hydration of phospholipid film
Vacobox	Buchi Labortechnik AG	B-177	used for hydration of phospholipid film
Circulation Chiller	LAUDA DR. R. WOBSE GMBH & CO. KG	WKL 230	used for hydration of phospholipid film
DY-676-COOH	Dyomics GmbH	676-00	Dissolve in 10 mM Tris and store stock at -20°C
Tris-(Hydroxymethyl)-aminomethan	Applichem	A1086	buffer 10 mM, pH 7.4
Trichlormethan	Carl Roth GmbH + Co. KG	Y015.2	used for liposome preparation
Sonicator	Merck Eurolab GmbH	USR 170 H	used for liposome preparation
Vortex Genie 2 (Pop-off Cup, No. 146-3011-00)	Scientific Industries Inc.	SI-0256	used for liposome preparation
Sephadex G25 medium	GE Healthcare Europe GmbH	17-0033-01	used for liposome purification
Triton X100	Ferak Berlin GmbH	505002	used to destruct liposomes for dye quantification
LiposoFast-Basic	Avestin Inc.		used for the extrusion of liposomes

Polycarbonate filter membrane, 100 nm (Whatman Nucleopore Trans Etch Membrane, NUCLEPR PC 19 MM, 0.1 U)	VWR		used for the extrusion of liposomes via LiposoFast-Basic
Fluostar Optima	BMG Labtech		used for dye quantification
Zetasizer Nano ZS	Malvern		used for the determination of liposome size and zetapotential
Ultracentrifuge	Beckmann Coulter GmbH	XL 80	used for concentration of the samples
Rotor	Beckmann Coulter GmbH	SW 55 T1	used for concentration of the samples
<b>Materials and equipments for the evaluation of liposome and optical imaging</b>			
Zymosan-A from <i>Saccharomyces cerevisiae</i>	Sigma	Z4250-250MG	used for induction of inflammation
Isotonic Saline (0.9%)	Fresenius GmbH	PZN-2159621	used for the dilution of Zymosan-A
Isoflurane vaporizer	Ohmeda Isotec 4		used for anesthetizing animals
Isoflurane	Actavis GmbH	PZN-7253744	anesthesia
Thermo Mat Pro 20 W	Lucky Reptile	61202-HTP-20	used to keep animals warm during anesthesia
Omnican-F (1 ml injection)	Braun	PZN-3115465	used for subcutaneous and intravenous application of probes
Panthenol eye cream	Jenapharm	PZN-3524531	used to prevent dryness of the eyes of animals during anesthesia
Hanks buffered saline solution	PAA Laboratories /Biochrom AG	L2045	w/o Mg <sup>2+</sup> , Ca <sup>2+</sup> and phenol red. For dilution of probes and for washing of cells
8-Well chamber slides	BD Biosciences	354108	used for cell culture followed by microscopy
Cell culture flasks	Greiner BioOne		
Cell culture media	Gibco (life technologies GmbH)		
Fetal calf serum	Invitrogen		
Poly-L-Lysine solution (0.01%, 50 ml)	Sigma	P4832	used to coat cell culture chamber slides
Mountant Permafluor	ThermoScientific	S21022-3	Mounting solution for microscopy
Hoechst-33258	AppliChem		DNA stain for microscopy
Hera-Safe	Heraeus Instruments		sterile work bench used for cell culture
HERA cell	Heraeus Instruments		Incubator used for cell culture
LSM510-Meta	Zeiss		used for confocal microscopy
Maestro-TM in vivo fluorescence imaging system	CRi, Woburn		used for whole body fluorescence imaging of small animals
Spectrophotometer (Ultrospec 4300 pro UV)	GE Healthcare		used for measurement of absorption
Spectrofluorometer (Jasco FP-6200)	Jasco		used for measurement of fluorescence emission
<b>Animals</b>			
NMRI mice (8-12 weeks old, male)	Elevage Janvier, France		used for inflammation trials