

Materials List for:

Targeting Drugs to Larval Zebrafish Macrophages by Injecting Drug-Loaded Liposomes

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Materials

Name	Company	Catalog Number	Comments
1,2-dipalmitoyl-sn-glycero-3-phosphocholine (DPPC)	Avanti Polar Lipids, Inc.	850355P	
1,2-diseteroyl-sn-glycero-3-phosphocholine (DSPE)	Avanti Polar Lipids, Inc.	850367P	
1.0 µm Whatman Nuclepore Track-Etched polycarbonate membranes	GE Healthcare Life Sciences	110610	
25 mL round-bottom flask	Sigma-Aldrich	Z278262	
35 mm culture dish	Thermo Scientific	150460	
Acetonitrile	Sigma-Aldrich	34998	
Agilent 1260 Infinity Diode Array Detector	Agilent Technologies	G4212B	
Agilent 1260 Infinity Quaternary Pump	Agilent Technologies	G1311B	
Agilent 1290 Infinity Series Thermostat	Agilent Technologies	G1330B	
Avanti mini-extruder Avanti Polar Lipids Inc.	Avanti Polar Lipids Inc.		
borosilicate microinjection needles	Warner Instruments	203-776-0664	
CaCl ₂	Sigma-Aldrich	C4901-100G	
cholesterol	Sigma-Aldrich	C8667	
Dumont No.5 fine tip forceps	Fine Science Tools	11251-10	
Eppendorf Microloader pipette tip	Eppendorf	5242956003	
Eppendorf SmartBlock 1.5 mL, thermoblock for 24 reaction vessels	Eppendorf	4053-6038	
eyelash manipulator	Ted Pella Inc.	113	
hemocytometer	Hawksley	BS.748	
HEPES	BDH Chemicals	441474J	
HPLC system	Agilent Technologies	1260 series HPLC system	
KCl	Sigma-Aldrich	P9541-1KG	
low melting point agarose	Invitrogen	16520-100	
LysoTracker Deep Red	Invitrogen	L12492	1 mM stock solution in DMSO, keep at -20 °C and protect from light.
LysoTracker Deep Red	Thermo Scientific	L12492	
magnetic stand	Narishige	GJ-1	

Marina Blue 1,2-dihexadecanoyl-sn-glycero-phosphoethanolamine (Marina Blue DHPE)	Invitrogen	M12652	Keep at -20 °C and protect from light.
Methanol	Sigma-Aldrich	34860	
methyl cellulose	Sigma-Aldrich	M0387-500G	
methylene blue	Alfa Aesar	42771	
MgSO ₄	Sigma-Aldrich	230391-500G	
micromanipulator	Narishige	M-152	
mineral oil	Sigma-Aldrich	M-3516	
Mitochondria-targeting antioxidant MitoTEMPO	Sigma-Aldrich	SML0737	
MitoSOX Red Mitochondrial Superoxide Indicator	Thermo Scientific	M36008	
MitoTEMPO	Sigma-Aldrich	SML0737	Keep at -20 °C and protect from light.
N-Phenylthiourea (PTU)	Sigma-Aldrich	P7629-10G	Take care when handling, toxic.
NaCl	BDH Chemicals	27810.295	
PBS (pH 7.4)	Gibco	10010-023	
Petri dish (100 mm x 20 mm)	Corning Inc.	430167	
Phenomenex C18 Gemini-NZ 3 mm 250 mm x 4.6 mm column	Phenomenex	00G-4439-E0	
pHrodo Red Escherichia coli BioParticles Conjugate	Thermo Scientific	P35361	
pHrodo Red Escherichia coli BioParticles Conjugate	Invitrogen	P35361	Keep at -20 °C and protect from light. Make 1 mg/mL stock solution by dissolving 2 mg lyophilized product in 2 mL of PBS supplemented with 20 mM HEPES, pH 7.4.
plastic transfer pipette	Medi'Ray	RL200C	
poloxamer 188	BASF Corporation		
pressure injector	Applied Scientific Instruments	MPPI-2	
rotary evaporator	Büchi, Flawil, Switzerland	Büchi R-215 Rotavapor	
Scanning confocal microscope	Olympus	Olympus FV1000 FluoView	
Sorvall WX+ Ultracentrifuge	Thermo Scientific	75000090	
stereomicroscope	Leica	MZ12	
Tricaine	Sigma-Aldrich	A5040-25G	Make 4 mg/mL stock solution (in deionized H ₂ O) and keep at -20 °C.
triton-X100	Sigma-Aldrich	X100-100ML	
Ultrasonic bath	Thermo Scientific	FB-11205	
Volocity Image Analysis Software	PerkinElmer	version 6.3	
water bath			
Zetasizer Nano	Malvern Instruments Ltd	Zetasizer Nano ZS ZEN 3600	