

Materials List for:

# High-fat Feeding Paradigm for Larval Zebrafish: Feeding, Live Imaging, and Quantification of Food Intake

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## Materials

Name	Company	Catalog Number	Comments
Tricaine (ethyl 3-aminobenzoate methanesulfonate salt)	Sigma-Aldrich	A5040-25G	Anesthesia for larval zebrafish
Chicken eggs	N/A	N/A	Organic, cage-free eggs, not enriched for omega-3 fatty acids
Ultrasonic processor 3000 sonicator	Misonix, Inc.	S-3000	To make egg yolk liposomes
Sonabox acoustic enclosure	Misonix, Inc.	432B	To make egg yolk liposomes
1/8" tapered microtip	Misonix, Inc.	419	To make egg yolk liposomes
Amber vials (4 ml, glass)	National Scientific	13-425	Lipid storage; includes vials, open-top caps, and cap septa
Incu-Shaker Mini	Benchmark	1222U12	Incubated shaker for feeds
BODIPY FL C16	Thermo Fisher Scientific	D3821	Fluorescent lipid analog; (4,4-Difluoro-5,7-Dimethyl-4-Bora-3a,4a-Diaza-s-Indacene-3-Hexadecanoic Acid)
BODIPY FL C12	Thermo Fisher Scientific	D3822	Fluorescent lipid analog; (4,4-Difluoro-5,7-Dimethyl-4-Bora-3a,4a-Diaza-s-Indacene-3-Dodecanoic Acid)
BODIPY FL C5	Thermo Fisher Scientific	D3834	Fluorescent lipid analog; (4,4-Difluoro-5,7-Dimethyl-4-Bora-3a,4a-Diaza-s-Indacene-3-Pentanoic Acid)
BODIPY FL C5	Thermo Fisher Scientific	D2183	Fluorescent lipid analog; (4,4-Difluoro-5,7-Dimethyl-4-Bora-3a,4a-Diaza-s-Indacene-3-Propionic Acid)
TopFluor cholesterol	Avanti Polar Lipids Inc.	810255	Fluorescent lipid analog; 23-(dipyrometheneboron difluoride)-24-norcholesterol
Fatty acid-free BSA	Sigma-Aldrich	A0281-1G	For TopFluor cholesterol solubilization
Methyl cellulose	Sigma-Aldrich	M0387	Mounting media for live larval imaging; 75 x 25 x 1 mm
Low melt agarose	Thermo Fisher Scientific	BP165-25	Mounting media for live larval imaging; 22 x 30
VWR microscope slides	VWR	16004-422	Mounting larvae for live imaging
Coverslips	Cover Glass	12-544A	Mounting larvae for live imaging
Super glue	Loctite	LOC01-30379	Mounting larvae for live imaging

FluoroDish (glass bottom dish)	World Precision Instruments, Inc.	FD35-100	Mounting larvae for live imaging; 35 mm dish, 23 mm glass, 0.17 mm glass thickness
Confocal microscope	Leica Microsystems	SP-2, SP-5	Microscope for high magnification live imaging
Stereoscope	Nikon	SM21500	Microscope for low magnification live imaging
Glass culture tubes	Kimble	73500-13100	Lipid extraction; (13 x 100 mm; 13 ml)
Savant SpeedVac Plus	ThermoQuest	SC210A	Lipid extraction
Channeled TLC plates	Whatman Scientific	WC4855-821	Food intake assay; LK5D Silica Gel 150 A, 20 x 20 cm, 250 um thick; Discontinued
Channeled TLC plates	Analtech, Inc.	66911	Food intake assay; Direct replacement for Whatman Scientific TLC plates
Typhoon 9410 Variable Mode Imager	GE Healthcare	9410	Fluorescent plate reader for food intake assay
ImageQuant software	GE Healthcare	29000605	Analysis of food intake assay
5 3/4' Wide bore, borosilicate disposable pasteur pipets	Kimble	63A53WT	Transferring larvae