

Materials List for

# Quantification of Macronutrients Intake in a Thermogenetic Neuronal Screen using *Drosophila* Larvae

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jove.com/video/61323

## Materials

Name	Company	Catalog Number	Comments
1.5 mL microtubes	Sarstedt AG & Co.	72.690.001	
10xPBS	Nytech	MB18201	
2.0 mL microtubes	Sarstedt AG & Co.	72.695.500	
60 mm petri dishes	Greiner Bio-one, Austria	628161	
96 well microplates	Santa Cruz Biotechnology	SC-204453	
Agar	Pró-vida, Portugal		
Bench cooler	Nalgene, USA	Labtop Cooler 5115-0032	
Blue food dye	Rayner, Billingshurst, UK		
Cell disruption media	Scientific Industries, Inc.	888-850-6208	(0.5 mm glass beads)
Dish weight boats	Santa Cruz Biotechnology	SC-201606	
Embryo collection cage for 60 mm petri dishes	Flystuff, Scientific Laboratory Supplies, UK	FLY1212 (59-100)	
Featherweight forceps	BioQuip Products, USA	4750	
Fly food for stocks maintenance			1 L food contains: 10 g Agar, 100 g Yeast Extract, 50 g Sucrose, 30 mL Nipagin, 3 mL propionic acid
Forceps #5	Dumont	0108-5-PS	Standard tips, INOX, 11cm
Incubator	LMS Ltd, UK	Series 2, Model 230	For thermogenetic feeding assay (30°C)
Incubator	Percival Scientific, USA	DR36NL	To stage larvae (19°C)
Janelia lines	Janelia Research Campus		Detailed information in Table 2
Macronutrient balancing diets			Composition and nutritional information in Figure 1
Methanol	VWR	CAS number: 67-56-1	
Nipagin (Methyl 4-hydroxybenzoate)	Sigma-Aldrich	H5501	
Nitrile gloves	VWR, USA		
Refrigerated centrifuge	Eppendorf, Germany	5804 R / Serial number: 5805C1364293	

Rubin Gal4 ines	Janelia Research Campus		Stoks available at Bloomington Drosophila Stock Center
ShibireTS UAS line	Bloomington Drosophila Stock Center	BDSC number: 66600	Provided by Carlos Ribeiro Group
Soft brushes			For sorting anaesthetised fruit flies
Spectrophotometer plate reader	Thermo Fisher Scientific	Multiskan Go 51119300	
Stereo microscope	Nikon	1016625	
Sucrose	Sidul, Portugal		
Third-instar larvae (L3) rearing diet			Composition and nutritional information in Figure 1
Timer			
Tissue lyzer / bead beater	MP Biomedicals, USA	FastPrep-24 6004500	
TRPA1 UAS line	Bloomington Drosophila Stock Center	BDSC number: 26264	Expresses TrpA1 under UAS control; may be used to activate neurons experimentally at 25 °C
Water bath	Sheldon Manufacturing Inc., USA	W20M-2 / 03068308 / 9021195	
Yeast extract	Pró-vida, Portugal		51% Protein, 15% Carbohydrate