

Materials List for:

Single-cell Resolution Fluorescence Live Imaging of *Drosophila* Circadian Clocks in Larval Brain Culture

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Materials

Name	Company	Catalog Number	Comments
KH ₂ PO ₄	Sigma-Aldrich	P5655	I am not sure they are exactly the same ones we have in the lab. I chose "suitable for insect cell culture" whenever available
CaCl ₂	Sigma-Aldrich	C7902	
MgSO ₄ ·7H ₂ O	Sigma-Aldrich	230391	
NaCl	Sigma-Aldrich	S5886	
NaHCO ₃	Sigma-Aldrich	S5761	
D-(+) Glucose	Sigma-Aldrich	G7021	
Yeast extract	Sigma-Aldrich	Y1000	
Insulin	Sigma-Aldrich	I0516-5ML	
Penicillin-Streptomycin	Sigma-Aldrich	P4333	
BIS-TRIS	Sigma-Aldrich	B4429	
L-(-)-Malic acid	Sigma-Aldrich	M7397	
D-(+)-Trehalose dihydrate	Sigma-Aldrich	T0167	
Succinic acid	Sigma-Aldrich	S9512	
Fumaric acid	Sigma-Aldrich	F8509	
α-Ketoglutaric acid	Sigma-Aldrich	K1128	
Non-heat-inactivated, Foetal Calf Serum (FCS) Mycoplasma and Virus screened	BioConcept Ltd. Amimed	2-01F30-I	
HEPES-KOH, pH 7.4	E&K Scientific Products	EK-654011	
KCl	Sigma-Aldrich	P5405	
NaH ₂ PO ₄	Sigma-Aldrich	S5011	
Sucrose	Sigma-Aldrich	S7903	
Fibrinogen from bovine plasma	Calbiochem (Merck)	341573-1GM	CAUTION: Harmful by inhalation, in contact with skin and if swallowed. Manipulate under laminar flow
Thrombin from bovine plasma	Sigma-Aldrich	T9549	CAUTION: Health Hazard, use gloves
PDF, NH ₂ -NSELINSLLSLPKNMNDA-OH	Chi Scientific	custom made	
Vaccum grease	Sigma-Aldrich	18405	
35 mm Dish, No. 1.5 Coverslip, 20 mm Glass Diameter, Uncoated	MatTek	P35G-1.5-20-C	
Corning Falcon Easy-Grip Tissue Culture Dishes	fisherscientific	08-772A	

Sterile 500 mL Steritop-GP 33 mm threaded bottle top filter, 0.22 µm	Millipore	SCGPS05RE	
Polytetrafluoroethylene (PTFE) film	Dupont	200A Teflon FEP Film	
Millex-HV Syringe Filter Unit, 0.45 µm, PVDF, 33 mm, gamma sterilized	Millipore	SLHV033RS	
Millex-GV Syringe Filter Unit, 0.22 µm, PVDF, 33 mm, gamma sterilized	Millipore	SLGV033RS	
Three-well glass dissection dish	Any company		
Fine forceps, size 5, Dumont	Fine Science Tools	11254-20	
Tandem scanner inverted TCS SP5 confocal microscope, with resonant scanner and HyD photo-multiplier detectors	Leica microsystem CMS GmbH		
Temperature control chamber	Life Imaging Services	The CUBE & BOX temperature control system, custom designed	
Stage-top humidity controller	Life Imaging Services	custom made	
Water Immersion Micro Dispenser: dispenser, extended micro-pump MP6 series and Autoimmersion Objective Controller software	Leica microsystem CMS GmbH		
SUM-stack creation and 3D correction drift plugin	ImageJ software		
10x iterative deconvolution	AutoQuant and Imaris software		