

Materials List for:

Culture of Adult Transgenic Zebrafish Retinal Explants for Live-cell Imaging by Multiphoton Microscopy

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URL: <https://www.jove.com/video/55335>

DOI: [doi:10.3791/55335](https://doi.org/10.3791/55335)

Materials

Name	Company	Catalog Number	Comments
Dumont forceps #5	World precision instruments	14098	
Dumont forceps #5, 45° angle	World precision instruments	14101	
McPherson-Vannas scissors	World precision instruments	501233	
Fluoridishes	World precision instruments	FD35-100	
Stereomicroscope	Nikon	SMZ-1B	similar type of dissection stereomicroscope will work
Biological Safety Cabinet class type A2	Labconco		equivalent type will work
tissue culture incubator	Thermoscientific	HEPA-class 100	equivalent type will work
Sylvania fluorescent lamps OSFP5835HOECO	Bulbtronics	31850	
0.2 µm pore-size Acrodisc syringe filter	VWR	4192	
10 mL Luer-lok syringe	VWR	BD309604	
60 mL Luer-lok syringe	VWR	BD309653	
NaHCO ₃	FischerScientific	S233-500	
CaCl ₂	ThermoScientific	C79-500	
MgCl ₂	EMD Millipore	5980	
HBSS w/o Ca ²⁺ /Mg ²⁺ , w/o phenol red, Gibco	ThermoScientific	14175-095	
MEM w/o phenol red, Gibco	ThermoScientific	5100-038	
Horse serum, heat-inactivated	ThermoScientific	26050-070	
penicillin/streptomycin	VWR	16777-164	
Ultrapur low melting point agarose	ThermoScientific	16520-100	
ethanol, absolute	ThermoScientific	BP2818-4	
2-phenoxyethanol	Sigma	77699	
Corning Cell-Tak cell and tissue adhesive	VWR	354240	
refractive index liquid	Cargille Lab	1803Y	
Nikon A1 multiphoton microscope equipped with a MaiTai infrared laser	Nikon		equivalent system will work
40X Apo long-distance water immersion objective (N.A. 1.15)			

environmental chamber equipped with insert for 35 mm petridishes	Okolab		equivalent system will work
NIS analysis software	Nikon		