

Materials List for:

Establishment of Larval Zebrafish as an Animal Model to Investigate *Trypanosoma cruzi* Motility *In Vivo*

Veronica Akle¹, Nathalie Agudelo-Dueñas^{*1,2}, Maria A. Molina-Rodriguez^{*1}, Laurel Brianne Kartchner^{1,3,4,6}, Annette Marie Ruth^{1,3,5,6}, John M. González³, Manu Forero-Shelton²

¹Laboratory of Neurosciences and Circadian Rhythms, School of Medicine, Universidad de los Andes

²Biophysics Group, Department of Physics, Universidad de los Andes

³Laboratory of Basic Medical Sciences, School of Medicine, Universidad de los Andes

⁴Department of Microbiology and Immunology, University of North Carolina

⁵Notre Dame Initiative for Global Development, University of Notre Dame

⁶USAID Research and Innovation Fellowship program

*These authors contributed equally

Correspondence to: Veronica Akle at v.akle@uniandes.edu.co

URL: <https://www.jove.com/video/56238>

DOI: [doi:10.3791/56238](https://doi.org/10.3791/56238)

Materials

Name	Company	Catalog Number	Comments
0.5-10 µL Micropipette	Fisherbrand	21-377-815	
Agarose RA	Amresco	N605	Regular
Agarose SFR	Amresco	J234	Low Melting point
Aquarium salt	Instant ocean	SS15-10	
Cell Count chamber	Boeco	Neubauer	
Cell culture flasks	Corning	430639	
Centrifuge	Sorvall	Legend RT	
CFSE	ThermoFisher	C34554	
Detection objective	Nikon 40x 0.8NA	40x CFI APO NIR	
DMEM medium	Sigma-Aldrich	D5648	
Dumont #5 fine forceps	World precision Instruments		
Ethyl 3-aminobenzoate methanesulfonate salt (Tricaine)	Sigma-Aldrich	A5040	
Fetal calf serum (FCS)	Eurobio	CVFSVF00-01	
Filter	Chroma	ET-525/50M	
Glass capillaries for embryo mounting	Vitrez Medical	160215	
Glass capillaries for pulling needles	World precision instruments	TW100-4	
Glucose	Gibco	A2494001	
HEPES	Gibco	156300-80	
Incubator	Thermo Corporation	Revco	
Larval microinjection mold	Adaptive Science Tools	I-34	
Laser	Crystalaser	DL488-050	
L-glutamine	Gibco	250300-81	
Methylene blue	Albor Químicos	12223	
Micromanipulator	Narishige	MN-153	
Micromanipulator system	Sutter Instrument	MP-200	For LSM
Micropipette puller device	Narishige	PC-10	
Microscope	Olympus	CX31	

Microscope (inverted)	Olympus	CKX41	
Multipurpose microscope	Nikon	AZ100M	
Neubauer counting chamber	Boeco Germany		
Penicillin-streptomycin	Gibco	15140-163	
Petri dish 94x16	Greiner bio-one	633181	
Plastic pasteur pipette	Fisherbrand	11577722	
Rotation stage	Newport	CONEX-PR50CC	
RPMI-1640 medium	Sigma-Aldrich	R4130	
Sodium pyruvate	Gibco	11360-070	
Stereoscope	Nikon	C-LEDS	
Tricaine (MS-222)	Sigma-Aldrich	886-86-2	
TRIS	Amresco	M151	
Trypsin-EDTA (0.25%)	Gibco	R-001-100	
Tubes 15 ml	Corning	05-527-90	