

Materials List for:

Force Measurement During Contraction to Assess Muscle Function in Zebrafish Larvae

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Materials

Name	Company	Catalog Number	Comments
REAGENTS			
Tricaine powder	Sigma-Aldrich	A5040	
Sodium chloride	Sigma-Aldrich	S7653	
Potassium chloride	Sigma-Aldrich	P9541	
Calcium chloride dihydrate	Sigma-Aldrich	223506	
Magnesium chloride hexahydrate	Sigma-Aldrich	M2670	
Sodium phosphate monobasic	Sigma-Aldrich	S0751	
Sodium bicarbonate	Sigma-Aldrich	S6297	
Ethylenediaminetetraacetic acid disodium salt dihydrate	Sigma-Aldrich	E5134	
EQUIPMENT			
Nonsterile-suture	Ashaway Line Twine	S30002	USP 10/0 monofilament nylon (3 ply)
Forceps	Fine Science Tools	11251-20	Dumont #5
Spring scissors	Fine Science Tools	15000-08	Vannas
Stereo microscope	Leica Microsystems	MZ8	Illuminated with Fostec EKE ACE I light source
Force transducer	 Aurora Scientific	400A	
Length controller	 Aurora Scientific	318B	
XYZ positioning devices	Parker Hannifin	3936M	
Thermometer	Physitemp	BAT-12	
Disposable transfer pipette	Fisher Scientific	13-711-9AM	Cut end to widen opening and facilitate larva transfer
Petri dish	Fisher Scientific	08-757-11YZ	
Glass pipette	Fisher Scientific	13-678-8B	Cut end (and fire-polish) to widen opening and facilitate larva transfer
Inverted microscope	Carl Zeiss Microscopy	Axiovert 100	
Water bath circulator	Neslab Instruments	RTE-111	
Temperature controller	Alpha Omega Instruments	Series 800	
Stimulator	 Aurora Scientific	701C	High-power, follow stimulator
Video sarcomere length system	 Aurora Scientific	900B-5A	
LabVIEW software	National Instruments		

Oscilloscope	Nicolet Technologies	ACCURA 100	
Microblade	Fine Science Tools	10050-00	
Microblade holder	Fine Science Tools	10053-13	
Data analysis software (Signo)	Alameda Applied Sciences		