

Materials List for

Gentle Isolation of Nuclei from the Brain Tissue of Adult African Turquoise Killifish, a Naturally Short-Lived Model for Aging Research

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Materials

Name	Company	Catalog Number	Comments
0.4% Trypan Blue solution	Gibco	15250061	
10x PBS	Bioland	PBS01-03	
15 mL Conicle Centrifuge Tube	VWR	89039-664	
2 mL Tissue Grinder	Kimble	885300-0002	Dounce Homogenizer
5 mL Polystyrene Round-Bottom Tube	Falcon	352054	
5M Sodium Chloride, Molecular Biology Grade	Promega	V4221	
autoMACS Rinsing Solution	Miltenyi Biotec	130-091-222	This corresponds to 1x PBS pH 7.2, 2 mM EDTA (used for flow cytometry)
Debris Removal Solution	Miltenyi Biotec	130-109-398	
DNA LoBind Tube	Eppendorf	22431021	
Echo Revolve microscope (fitted with 60x objective)	Echo	NA	No catalog number; Used to visually inspect nuclei.
Falcon Round-Bottom Polystyrene Tubes, 5 mL	Falcon	352052	FACS tube
FLOWMI Cell Strainers, 40 µM	SP Bel-Art	136800040	Referred to as on-tip filters in Protocol
Hydrochloric Acid	Sigma-Aldrich	258146-500 mL	Used to lower TRIS pH from 8.0 to 7.4
Leica EZ4 dissecting scope	Leica	NA	No catalog number
MACS BSA stock solution	Miltenyi Biotec	130091376	
MACS SmartStrainers (70 µM)	Miltenyi Biotec	130-110-916	
MACSQuant Analyzer 10 Flow Cytometer	Miltenyi Biotec	NA	No catalog number
Magnesium Chloride, Hexahydrate, Molecular Biology Grade (Powder)	Millipore	442611	

Megafuge 16R Centrifuge	ThermoScientific	75003629	
Micro Cover Glass	VWR	48393081	
Micro Slides Superfrost Plus	VWR	48311-703	
Nonidet P-40 Substitute	Roche	(Roche) 11332473001/ Catalog: 983739 P Code: -102368106 (Sigma Aldrich)	
NP-40 Surfact-Amps Detergent Solution	ThermoFisher	85124	
Nuclease-Free HyPure Molecular Biology Grade Water	HyClone	SH30538.02	
NxGen RNase Inhibitor (50,000 U)	Lucigen	30281-2	
Propidium Iodide solution	MBL	FP00010020	
PureBlu DAPI Nuclear Staining Dye	Biorad	1351303	
TipOne RPT Pipette Tips (Ultra low retention, filtered) in 10 μ L, 20 μ L, 200 μ L, and 1000 μ L sizes	USA Scientific	#1181-3810; #1180-1810; #1180-8810; #1182-1830	
Tricaine-S (MS 222)	Syndel	Tricaine10G	Syndel is an FDA-approved provider for pharmaceutical grade Tricaine
TRIS, 1 M, pH 8.0	VWR	E199-500 mL	
Wide Bore Pipet Tips	Axygen	T-1005-WB-C	