

Materials List for:

# Visualizing Astrocyte Morphology Using Lucifer Yellow Iontophoresis

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## Materials

Name	Company	Catalog Number	Comments
10% Buffered Formalin Phosphate	Fisher	SF 100-20	An identical alternative can be used
Acrodisc Syringe Filters with Supor Membrane	Pall	4692	An identical alternative can be used
Ag/AgCl ground pellet	WPI	EP2	A similar alternative can be used
Alexa Fluor 546 goat anti-chicken IgG (H+L)	Thermo Scientific	A-11040	A similar alternative can be used
Alexa Fluor 647 goat anti-rabbit IgG (H+L)	Thermo Scientific	A27040	A similar alternative can be used
Anti Aquaporin-4 antibody	Novus Biologicals	NBP1-87679	A similar alternative can be used
Anti GFAP antibody	Abcam	ab4674	A similar alternative can be used
Borosilicate glass pipettes with filament	World precision instruments	1B150F-4	
C57BL/6NTac mice	Taconic Stock	B6	A similar alternative can be used
Calcium Chloride	Sigma	21108	An identical alternative can be used
Confocal laser-scanning microscope	Olympus	FV1000MPE	A similar alternative can be used
D-glucose	Sigma	G7528	An identical alternative can be used
Disodium Phosphate	Sigma	255793	An identical alternative can be used
Electrode puller- Model P-97	Sutter	P-97	A similar alternative can be used
Fluoromount-G	Southern Biotech	0100-01	An identical alternative can be used
Heparin sodium injection (1,000 USP per mL)	Sagent Pharmaceuticals	400-10	An identical alternative can be used
Imaris software (Version 7.6.5)	Bitplane Inc.		A similar alternative can be used
Isoflurane	Henry Schein Animal Health	29404	An identical alternative can be used
Lidocaine Hydrochloride Injectable (2%)	Clipper	1050035	An identical alternative can be used
Lucifer Yellow CH dilithium salt	Sigma	L0259	
Lucifer Yellow CH dipotassium salt	Sigma	L0144	
Magnesium Chloride	Sigma	M8266	An identical alternative can be used
Microscope Cover Glass	Thermo Scientific	24X60-1	An identical alternative can be used
Microscope Slides	Fisher	12-544-2	An identical alternative can be used

Normal Goat Serum	Vector Laboratories	S-1000	An identical alternative can be used
Objective lens (40x)	Olympus	LUMPLFLN 40XW	A similar alternative can be used
Objective lens (60x)	Olympus	PlanAPO 60X	A similar alternative can be used
PBS tablets, 100 mL	VWR	VWRVE404	An identical alternative can be used
Pipette micromanipulator- Model ROE-200	Sutter	MP-285 / ROE-200 / MPC-200	A similar alternative can be used
Potassium Chloride	Sigma	P3911	An identical alternative can be used
Sodium Bicarbonate	Sigma	S5761	An identical alternative can be used
Sodium Chloride	Sigma	S5886	An identical alternative can be used
Stimulator- Model Omnicol 2010	World precision instruments	Omnicol 2010	A similar alternative can be used
Triton X 100	Sigma	T8787	An identical alternative can be used
Vibratome- Model #3000	Pelco	100-S	A similar alternative can be used