

Materials List for:

Sex Differences in Mouse Hippocampal Astrocytes after *In-Vitro* Ischemia

Vishal Chanana¹, Abdulfettah Tumturk², Douglas Kintner¹, Eshwar Udho¹, Peter Ferrazzano^{1,3}, Pelin Cengiz^{1,3}

¹Waisman Center, University of Wisconsin

²Department of Neurological Surgery, University of Wisconsin

³Department of Pediatrics, University of Wisconsin

Correspondence to: Pelin Cengiz at cengiz@wisc.edu

URL: <https://www.jove.com/video/53695>

DOI: [doi:10.3791/53695](https://doi.org/10.3791/53695)

Materials

Name	Company	Catalog Number	Comments
Astrocyte culture media			
DMEM, high glucose	cellgro	10-013-CV	
Horse Serum	Gibco	26050-070	Final Concentration: 10%
Penicillin-Streptomycin	Cellgro	30-002-CI	Final Concentration: 1%
L-Leucine methyl ester hydrochloride	Aldrich	L1002-25G	Final Concentration: 5 mM
Solution for brain tissue digestion			
HBSS	Life Technologies	14170-088	
Trypsin	cellgro	25-050-CI	Final Concentration: 0.25%
Other			
70% (vol/vol) ethanol	Roth	9065.2	
Poly-D-Lysine (PDL) 12 mm round coverslips	Corning	354087	
Water	Sigma	W3500	Cell-culture grade
PBS	cellgro	21-040-CV	Cell-culture grade
0.05% Trypsin-EDTA	Life Technologies	25300-062	
70 µm Sterile cell strainer	Fisher scientific	22363548	
3.5 cm Petri dish	BD Falcon	353001	
15 mL Falcon tube	BD Falcon	352096	
50 mL Falcon tube	BD Falcon	352070	
Forceps, fine	Dumont	2-1032; 2-1033	# 3c; # 5
Forceps, flat tip	KLS Martin	12-120-11	
13 cm surgical scissors	Aesculap	BC-140-R	
Confocal Microscope	Nikon	A1RSi	
Centrifuge	Eppendorf	5805000.017	5804R
Orbital Shaker	Thermo Scientific	SHKE 4450-1CE	MaxQ 4450
Anti-IBA1	Wako	019-19741	Rabbit monoclonal
Anti-MAP2	Sigma	M2320	Mouse monoclonal
Anti-HIF1alpha	abcam	ab179483	Rabbit monoclonal
Anti-S100B	Sigma	HPA015768	Rabbit polyclonal
Anti-GFAP (cocktail)	Biologend	837602	
VECTASTAIN Elite ABC Kit (Rabbit IgG)	Vector Labs	PK-6101	Contains 4 Reagents
Goat Anti Rabbit Alexa-Fluor 488	Invitrogen	A11070	

Goat Anti Mouse Alexa-Fluor 568	Invitrogen	A11004	
---------------------------------	------------	--------	--