

Materials List for:

# Biocytin Recovery and 3D Reconstructions of Filled Hippocampal CA2 Interneurons

Georgia Economides<sup>\*1</sup>, Svenja Falk<sup>\*1</sup>, Audrey Mercer<sup>1</sup>

<sup>1</sup>Department of Pharmacology, University College London

\*These authors contributed equally

Correspondence to: Audrey Mercer at [a.mercer@ucl.ac.uk](mailto:a.mercer@ucl.ac.uk)

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## Materials

Name	Company	Catalog Number	Comments
Avidin-7-amino-4-methylcoumarin-3-acetic acid (Avidin-AMCA) antibody- 20.8 mg/mL	Vector laboratories	A2008	
Biocytin ≥98% (TLC)	Sigma	B4261	
3,5 diaminobenzidine (DAB) tablet, To prepare 5 mL	Sigma	D4293	
Durcupan epoxy resin A	Sigma	44611	
Durcupan epoxy resin B	Sigma	44612	
Durcupan epoxy resin C	Sigma	44613	
Durcupan epoxy resin D	Sigma	44614	
Ethanol, puriss. p.a., absolute, ≥99.8%	Sigma	32221	
Gelatin	Sigma	48723	
Glutaraldehyde solution, grade I, 25 % in H <sub>2</sub> O	Sigma	G5882	
Glycerol, ≥99%	Sigma	G5516	
Goat serum	Sigma	G9023	
Goat anti-mouse fluorescein isothiocyanate (FITC)- 14.3 mg/mL	Sigma	F2653	
Goat anti-rabbit Texas Red (TR)- 3.3 mg/mL	Invitrogen	T2767	
Hydrogen peroxide, 30% solution	Sigma	H-1009	
Immersion oil, viscosity 1.250 cSt (lit.)	Sigma	I0890	
Nickel chloride (NiCl <sub>2</sub> · 6H <sub>2</sub> O)	Sigma	N5756	
Osmium tetroxide, for electron microscopy, 4% in H <sub>2</sub> O	Sigma	75632	
Paraformaldehyde, reagent grade, crystalline	Sigma	P6148	
Picric acid, moistened with water, ≥98%	Sigma	197378	
Phosphate buffer 1 M	Sigma	P3619	
Propylene oxide (C <sub>3</sub> H <sub>6</sub> O), 99%	Alfa Aesar	30765	
Sodium tetrahydroborate	VWR	27885.134	
Sucrose	Fisher scientific	S/8600/53	
Trizma Hydrochloride, ≥99.0%	Sigma	T5941	

Trizma base, ≥99.9%	Sigma	T6066	
Vectashield Antifade Mounting Medium, , refractive index 1.45	Vector laboratories	H-1000	
Vectastain Elite ABC HRP kit	Vector laboratories	PK6100	
Equipment used			
Vibratome	Agar Scientific		
C4A Cupped aluminium planchettes	GA-MA & ASSOCIATES, INC.		
Leica DMR microscope	Leica Microsystems		
X-Cite 120PC Q fluorescence light source	Excelitas Technologies		
Leica DFC450 digital microscope camera	Leica Microsystems		
Rapidograph technical drawing pen 0.18mm	London graphics centre		
0.18 mm rapidograph nib	London graphics centre		
Rapidograph technical drawing pen 0.25mm	London graphics centre		
0.25 mm rapidograph nib	London graphics centre		
NeuroLucida system including PC workstation, stage, camera and joystic for XYZ stage control	MicroBrightfield (MBF) Bioscience		
NeuroLucida software version 2017	MicroBrightfield (MBF) Bioscience		
CorelDRAW graphics Suite X5	Corel		
Video editing software	Adobe Premiere Pro		
Glass vials 14 mL	Fisher scientific		