

Materials List for:

Imaging Neurons within Thick Brain Sections Using the Golgi-Cox Method

Emma L. Louth¹, Charles D. Sutton¹, Ari L. Mendell¹, Neil J. MacLusky¹, Craig D.C. Bailey¹

¹Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph

Correspondence to: Craig D.C. Bailey at baileyc@uoguelph.ca

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Materials

Name	Company	Catalog Number	Comments
potassium dichromate	Fisher Scientific	P188-100	Hazardous
potassium chromate	Fisher Scientific	P220-100	Hazardous
mercuric chloride	Fisher Scientific	S25423	Hazardous
Whatman grade 1 filter paper	Fisher Scientific	1001-185	
isoflurane	Pharmaceutical Partners of Canada	CP0406V2	
20 mL scintillation vial	Fisher Scientific	03-337-4	
sucrose	Bioshop Canada	SUC700.1	
sodium phosphate monobasic	Sigma Aldrich	S5011-500G	
sodium phosphate dibasic	Sigma Aldrich	S9390-500G	
50 mL conical tube	Fisher Scientific	12-565-271	
isopentane	Fisher Scientific	AC126470010	Also known as 2-methylbutane; hazardous
agar	Sigma Aldrich	A1296-100G	
small weigh dish	Fisher Scientific	02-202-100	
vibratome	Leica	VT1000 S	
6-well tissue culture plates	Fisher Scientific	08-772-1b	
mesh bottom tissue culture inserts	Fisher Scientific	07-200-214	
paraformaldehyde (PFA), 16%	Electron Microscope Sciences	15710-S	Hazardous
ammonium hydroxide	Fisher Scientific	A669S-500	Hazardous
Kodak Fixative A	Sigma Aldrich	P7542	
superfrost plus slides	Fisher Scientific	12-550-15	
CitroSolv clearing agent	Fisher Scientific	22-143-975	
anhydrous ethyl alcohol	Commercial Alcohols	N/A	
cresyl violet	Sigma Aldrich	C1791	
permount	Fisher Scientific	SP15-100	
upright microscope	Olympus	BX53 model	
colour camera, 12 bit	MBF Biosciences	DV-47d	QImaging part 01-MBF-2000R-F-CLR-12
3D motorized microscope stage, controller and encoders	MBF Biosciences	N/A	Supplied and integrated with microscope by MBF Biosciences
4X microscope objective	Olympus	4x 0.16 N.A. UPlanSApo	
10X microscope objective	Olympus	10x 0.3 N.A. UPlan FL N	
30X microscope objective	Olympus	30x 1.05 N.A. UPlanSApo	
60X microscope objective	Olympus	60x 1.42 N.A. PlanAPO N	
silicone immersion oil	Olympus	Z-81114	

Neurolucida software	MBF Biosciences	Version 10	
ImageJ software	U. S. National Institutes of Health	Current version	With the OME Bio-Formats plugin installed
Photoshop software	Adobe	version CS6	