

Materials List for:

Preparation of Mouse Brain Tissue for Immunoelectron Microscopy

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Materials

Name	Company	Catalog Number	Comments
Sodium pentobarbital (Nembutal)	OVATION Pharmaceuticals		
Filter paper 315 24 cm	VWR international	28331-081	
*Acrolein purum (≥95%)	Sigma-Aldrich	01680	
Sodium borohydride (≥98%)	Sigma-Aldrich	452173	
*Prilled paraformaldehyde (PFA) (95%)	Sigma-Aldrich	441244	
Normal goat serum	Jackson ImmunoResearch	005-000-121	
Rabbit anti-Iba1 primary antibody	Wako Pure Chemical Industries, Ltd.	019-19741	Stored at -20°C, 1:1 in glycerol
Biotin-SP-conjugated AffiniPure F(ab') ₂ fragment goat anti-rabbit IgG, Fc fragment specific	Jackson ImmunoResearch	111-066-046	Stored at -20°C, 1:1 in glycerol
Peroxidase-conjugated streptavidin	Jackson ImmunoResearch	016-030-084	Stored at -20°C, 1:1 in glycerol
*Osmium tetroxide 4% solution	Electron Microscopy Sciences	19150	Light sensitive
Propylene oxide (≥99%)	Sigma-Aldrich	82325	
Polypropylene disposable beakers (50 mL)	Fisher Scientific	01-291-10	
Aluminium weigh dishes (70 mm)	Fisher Scientific	NC9261784	
Durcupan epoxy resin	Electron Microscopy Sciences	14040	
Embedding mold	Electron Microscopy Sciences	70907	
DPX mountant for histology	Sigma-Aldrich	44581	
Gelatin subbed slides	VWR international	100241-864	
ACLAR embedding films (7.8 mm)	Electron Microscopy Sciences	50425	
Capsule mold	Electron Microscopy Sciences	70150	
High-performance super glue	Corporate Express	LOC30379	
Perfect loop for ultra thin sections	Electron Microscopy Sciences	70944	
Superfrost slides	Fisher Scientific	22-178-277	
Diamond knife ultra 45° (2.5-3.5 mm)	Diatome		
Gelatin from cold water fish skin (~45%)	Sigma-Aldrich	G7765	
*One should always work under a fume hood and wear nitrile gloves when handling acrolein, paraformaldehyde, and osmium and should also dispose of their waste properly.			