

Materials List for:

Assessment of Perigenital Sensitivity and Prostatic Mast Cell Activation in a Mouse Model of Neonatal Maternal Separation

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URL: <https://www.jove.com/video/53181>

DOI: [doi:10.3791/53181](https://doi.org/10.3791/53181)

Materials

Name	Company	Catalog Number	Comments
Pregnant C57BL/6 female mice	Charles River	027	Timed or untimed pregnant females should be monitored daily for in-house birth.
2 L glass beaker(s)	Sigma-Aldrich	CLS10002L	Each NMS litter will be held in the same beaker throughout the 21 day separation period.
VWR Forced Air Incubator, Basic	VWR International	414005-124	The incubator should be held at 33°C and 50% humidity.
Touch Test Sensory Evaluator, Kit of 20 (Semmes-Weinstein Von Frey Aesthesiometer for touch assessment)	Stoelting	58011	The following monofilaments should be used for perigenital sensitivity assessment: 1.65 g, 2.36 g, 2.83 g, 3.22 g, 3.61 g, 4.08 g, 4.31 g, and 4.74 g.
Animal Enclosure (12 mice 6 rats)	IITC	435	Be sure to place a heavy object on top of the individual, acrylic animal enclosures to prevent mice from escaping.
Mesh Stand for mice and rats (12 mice 6 rats)	IITC	410	Place stand on a stable table top for comfortable access.
Phosphate buffered saline	Sigma-Aldrich	P5493	Dilute the 10x PBS stock to 1x PBS.
Paraformaldehyde	Sigma-Aldrich	P6148	A 4% paraformaldehyde solution is needed to intracardially perfuse mice and postfix tissue in preparation for mast cell staining.
Sucrose	Sigma-Aldrich	S5016	Cryoprotect fixed tissue in 30% sucrose solution at 4°C overnight.
Heptane	Sigma-Aldrich	246654	Chill heptane on dry ice to freeze tissue.
Standard Cryomold	VWR International	4557	To assist in freezing prostate tissue prior to cryostat sectioning
Tissue-Tek OCT Compound	Sakura	4583	12 x 125 ml
VWR Superfrost Plus Micro Slide	VWR International	48311-703	75 x 25 x 1 mm
Toluidine Blue O	Sigma-Aldrich	198161	Certified by the Biological Stain Commission. Suitable for use as a metachromatic stain for mast cells.
Ethanol, Absolute (200 Proof)	Fisher Scientific	BP2818-4	Molecular Biology Grade, Fisher Bioreagents; 95% and 100% solutions will be needed to dehydrate stained cryosections before mast cell visualization.

Sodium Chloride	Sigma-Aldrich	S9888	Acidified NaCl solution should be made fresh before staining cryosections.
GeneMate Sterile 50 ml Centrifuge Tubes	BioExpress	C-3394	Disposable tubes used to mix toluidine blue elements or dip slides into 1xPBS.
Coplin staining dish for 10 slides, with ground glass cover	Fisher Scientific	08-815	Hold up to 10 standard 3 x 1 in. (75 x 25mm) slides back-to-back. Use separate dishes for Toluidine Blue working solution, 95% EtOH, 100% EtOH, and xylene.
Xylenes (Histological)	Fisher Scientific	X3P	Once dehydrated, tissue is cleared with xylene.
Microscope Slide Boxes, 100-Place	VWR International	82003	Boxes can be used for storage and transportation of slides.
Fisherbrand Microscope Slide Box	Fisher Scientific	22-363-400	These slide boxes are typically small enough to fit inside a cryostat.
Glycerol	Sigma-Aldrich	G5516	Glycerol is a traditional mounting medium.
Mounting Medium, Richard-Allan Scientific	VWR International	4111	Mounting medium firmly bonds the coverslip to the slide.
Micro Cover Glasses, Rectangular, No. 1	VWR International	48393-106	A coverslip is placed over the dehydrated and cleared tissue to protect the sample.
Light Microscope	Nikon		The Advanced Automated Research Microscope Eclipse 90i, used by our lab, has been discontinued and replaced Eclipse Ni-E.