

Materials List for:

# Sectioning Mammary Gland Whole Mounts for Lesion Identification

Deirdre K Tucker<sup>1,2</sup>, Julie F Foley<sup>3</sup>, Schantel A Bouknight<sup>4</sup>, Suzanne E Fenton<sup>2</sup>

<sup>1</sup>Curriculum in Toxicology, University of North Carolina at Chapel Hill

<sup>2</sup>National Toxicology Program Laboratory (NTPL), DNTP, National Institute of Environmental Health Sciences

<sup>3</sup>Cellular and Molecular Pathology Branch, DNTP, National Institute of Environmental Health Sciences

<sup>4</sup>Charles River Laboratories Inc.

Correspondence to: Suzanne E Fenton at [fentonse@niehs.nih.gov](mailto:fentonse@niehs.nih.gov)

URL: <https://www.jove.com/video/55796>

DOI: [doi:10.3791/55796](https://doi.org/10.3791/55796)

## Materials

Name	Company	Catalog Number	Comments
Xylene	Sigma-Aldrich	214736	
Permunt	Thermo Fisher Scientific	SP15-100	mounting media for coverslipping whole mounts and H&E sections
Leica automated processor	Leica Biosystems	Model # ST5020	
HM 355S Automatic Microtome	Thermo Fisher Scientific	905200	
Paraffin	Leica Biosystems	EM-400	
Superfrost plus microscope slides	Thermo Fisher Scientific	4951PLUS-001	electrostatically charged
Fisher Finest 24x60x1	Thermo Fisher Scientific	12-548-5P	coverslips
Varistain Gemini ES Automatic slide stainer	Thermo Fisher Scientific	A78000014	
Sta-On	Leica Biosystems	3803107	liquid adhesive; used in water bath at sectioning
Modified Harris Hematoxylin 72711	Richard-Allan Scientific (Part of Thermo Scientific)	72711	
Eosin	Leica Biosystems	3801600	
Lithium Carbonate	SkyTech Laboratories	LCQ500	
Glacial Acetic Acid	Thermo Fisher Scientific	A38-500	needed in Carnoy's fixative
Chloroform	Macron Fine Chemicals	4440-04	needed in Carnoy's fixative
100% Ethanol	The Warner Graham Company	6505001050000	needed in Carnoy's fixative and washing slides
95% Ethanol	The Warner Graham Company	6505011137320190	
Carmine Alum	Sigma-Aldrich	C1022-25G	
Aluminum potassium sulfate dodecahydrate, Sigma Ultra	Sigma-Aldrich	A7210-500G	
Automation wash buffer, 20X	Biocare Medical	TWB945	