

Materials List for:

# Modeling Colitis-Associated Cancer with Azoxymethane (AOM) and Dextran Sulfate Sodium (DSS)

Ameet I. Thaker<sup>1</sup>, Anisa Shaker<sup>1</sup>, M. Suprada Rao<sup>1</sup>, Matthew A. Ciorba<sup>1</sup>

<sup>1</sup>Division of Gastroenterology, Washington University School of Medicine

Correspondence to: Matthew A. Ciorba at [mciorba@dom.wustl.edu](mailto:mciorba@dom.wustl.edu)

URL: <https://www.jove.com/video/4100>

DOI: [doi:10.3791/4100](https://doi.org/10.3791/4100)

## Materials

Name	Company	Catalog Number	Comments
C57BL/6J Mice	Jackson Laboratory	000664	
Azoxymethane (AOM)	Sigma Aldrich	A5486-100MG	<b>Stock solution:</b> dilute to 10 mg/ml in distilled water to be kept at -20 °C as 0.5 - 1 ml aliquots. <b>Working solution:</b> dilute stock to 1 mg/ml in isotonic (0.9%) saline
Dextran Sulfate Sodium (DSS)	TdB Consultancy	DB001	MW 40 kDa (36-50 kDa preparations from other sources are acceptable; The same lot should be used for a single experiment) <sup>6</sup>
Coloview miniendoscopic system	Karl Storz	Multiple	See Becker <i>et al.</i> for detailed explanation of equipment and setup. <sup>11</sup>
TPP Rapid FILTERMAX 500 ml Bottle-Filter, 0.22 µm PES	Midwest Scientific	TP99500	Any standard tissue culture filter is acceptable
Ethyl Alcohol 200 Proof ASC/USP	Pharmaco-AAPER (or other)	11ACS200	Dilute to 70% in distilled water
Isoflurane, USP	Butler Animal Health Supply	4029405	Place mouse in glass jar with gauze or a small cloth soaked in anesthetic
18G Straight Gavage Needle	Braintree Scientific	N-008	
Phosphate Buffered Saline (PBS)	Sigma Aldrich	P5493	Dilute to 1X (0.01 M) in distilled water
Cold Tray (Tissue Tek II Cold Plate)	Fisher Scientific	NC9491941	Store at -20 °C
ImageJ Software	NIH (free download)		<a href="http://rsbweb.nih.gov/ij/">http://rsbweb.nih.gov/ij/</a>
Formaldehyde (37%)	Fisher Scientific	F79-500	Dilute to 10% in PBS
BD Bacto Agar	Fisher Scientific	DF0140-01-0	Use hotplate to create 2% solution in distilled water
Miltex Eye Dressing Forceps	MedPlus Inc.	18-780	
Miltex Eye Scissors	MedPlus Inc.	18-1430	Curved points prevent damage to colon during opening.
Alcian Blue 8GX (powder)	Sigma Aldrich	A5268	Add 1 g powder to 100 ml 3% acetic acid (3 ml glacial acetic acid + 97 ml distilled water)
1 mL Tuberculin syringe with attached 26 G x 3/8 in intradermal bevel needle	BD	305946	For injection of AOM