

Materials List for:

Visualization of miniSOG Tagged DNA Repair Proteins in Combination with Electron Spectroscopic Imaging (ESI)

Hilmar Strickfaden¹, Zhi Zhong Xu¹, Michael J. Hendzel¹

¹Department of Oncology, Faculty of Dentistry and Medicine, University of Alberta

Correspondence to: Hilmar Strickfaden at hilmar@ualberta.ca

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Materials

Name	Company	Catalog Number	Comments
35 mm glass bottom dishes	MatTek	P35G-1.5-14-C	
Gridded 35 mm glass bottom dishes	MatTek	P35G-2-14-CGRD	not made for immersion objectives
LR White: acryl resin	emsdiasum	14381	
LR White accelerator	emsdiasum	14385	
3,3'-Diaminobenzidine tetrahydrochloride 10 mg tablets	Sigma	D5905	
Slim Bar Grids 300 Mesh	SPI	1161123	
Tungsten-Point Lab Pen	emsdiasum	41148	
Osmium Tetroxide	emsdiasum	19100	
Carbon Coater 208 carbon	Cressington		
Ultra microtome Leica EM UC6	Leica		
Photoshop CS5	Adobe		might even work with older versions
Digital Micrograph V.2.30	Gatan		might even work with older versions
Hoechst 33342	Sigma	H-1399	
Effectene	Quiagen		
MiniSOG-Constructs	Tsien-Lab		tsienlab@yahoo.com
MDC1 miniSOG mCherry			
53BP1 miniSOG mCherry			
Rad52 miniSOG mCherry			
cesium 137 radiation source "MARK 1"	(J.L. Shepherd & Associated)		
ImageJ/Fiji	open source		http://fiji.sc/Fiji
2 ml Eppendorf tubes	Fisherbrand	05-408-146	
Diamond Knife ultra 35°	Diatome		
Trimming Knife ultratrim	Diatome		
Sodium cacodylate trihydrate	emsdiasum	12300	Caution Toxic!
Glutaraldehyde EM Grade 8%	emsdiasum	16020	Caution Toxic!
Sodium phosphate dibasic	emsdiasum	21180	
Sodium phosphate monobasic	emsdiasum	21190	
Paraformaldehyde	emsdiasum	19202	
Osmium tetroxide 4% solution	emsdiasum	19150	
Inverted Fluorescence Microscope Axiovert 200M	Zeiss		

Hydrochloric Acid	Fisherbrand	A142-212	
Sodium Hydroxide Solution 10M	Fluka	72068	
Oxygen	Medigas		
3-Amino-1,2,4-triazole	Sigma	A8056	
Potassium cyanide	Sigma	207810	Caution Toxic!
Ethanol	emsdiasum	15058	Caution Toxic!
Razor blade Single Edge Carbon Steel	emsdiasum	71960	Caution Sharp!
DMEM	Sigma	D 5546	
FBS	Life Technologies	16000-044	
G418	Life Technologies	11811-023	
DMSO	Sigma	D2650	
Transmission Electron Microscope 200 kV	JEOL	2100	
GIF Tridiem 863 Energy filter	Gatan		