

Materials List for:

Single Molecule Analysis of Laser Localized Psoralen Adducts

Jing Huang¹, Himabindu Gali¹, Julia Gichimu¹, Marina A. Bellani¹, Durga Pokharel¹, Manikandan Paramasivam¹, Michael M. Seidman¹

¹Laboratory of Molecular Gerontology, National Institute on Aging, National Institutes of Health

Correspondence to: Michael M. Seidman at SeidmanM@grc.nia.nih.gov

URL: <https://www.jove.com/video/55541>

DOI: [doi:10.3791/55541](https://doi.org/10.3791/55541)

Materials

Name	Company	Catalog Number	Comments
Digoxigenin NHS ester	Sigma-Aldrich	11333054001	
Chloro-psoralen	Berry and Associates	PS 5000	
diaminoglycol	Sigma-Aldrich	369519	4,7,10-Trioxa-1,13-tridecanediamine
Chloroform	Acros Organics	423550040	
Methanol	Fisher Scientific	A4524	
Ammonium solution	Sigma-Aldrich	5002	
TLC plates	Analtech, Inc.	P02511	
Flass glass column 24/40, 100 mL	Chemglass Life Sciences	CG-1196-02	
Nikon T2000_E2 spinning disk confocal microscope, equipped with automated stage and environmental control chamber and plate holder	Perkin Elmer		With Volocity Software
Micropoint Galvo	Andor Technologies		with a Nitrogen pulsed laser
dye cell	Andor Technologies	MP-2250-2-365	
365 dye	Andor Technologies	MP-27-365-DYE	
IdU	Sigma-Aldrich	17125	
35 mm glass botomm plates 1.5 coverslip, 10 mm glass diameter, uncoated	Matek	P35G-1.5-10-C	
microscope slides	New Comer Supply	Part # 5070	New Silane Slides
Mouse anti BrdU antibody (IdU)	BD Biosciences	347580	1 in 40
Rat anti BrdU Antibody (CIdU)	Abcam	ab6326	1 in 200
Rabbit anti Dig antibody	ThermoFisher Scientific	710019	1 in 200
Q-dot 655 goat anti Rabbit IgG	ThermoFisher Scientific	Q-11421MP	1 in 5,000
AF647- goat anti Rat IgG	Jackson Immunoresearch	112-605-167	1 in 100
AF488-goat anti mouse IgG	Jackson Immunoresearch	115-545-166	1 in 100
Zeiss epifluorescent microscope A200	Zeiss		with Axiovision software
Q-dot 655 filter	Chroma	39107	