

Materials List for:

A Fluorescence-based Exonuclease Assay to Characterize DmWRNexo, Orthologue of Human Progeroid WRN Exonuclease, and Its Application to Other Nucleases

Penelope A. Mason¹, Ivan Boubriak¹, Lynne S. Cox¹

¹Department of Biochemistry, University of Oxford

Correspondence to: Lynne S. Cox at lynne.cox@bioch.ox.ac.uk

URL: <https://www.jove.com/video/50722>

DOI: [doi:10.3791/50722](https://doi.org/10.3791/50722)

Materials

Name	Company	Catalog Number	Comments
Reagent/Material			
Custom oligonucleotides	Eurogentec		It is necessary to obtain these at high purity e.g. with PAGE purification.
		5'FLO	fluorescescein-5' GAACTATGGCTCTC GAGTGCTAGGACATGTCTGA CTACGTACAAGTCACC - 3'
		bubble	5'- GGTGACTTGTACGT AGTCAGACATGTCCTAGCAC TCGAGAGCCATAGTTC-3'
40% 19:1 Acrylamide solution	Severn Biotech	20-2400-05	CAUTION: potent neurotoxin so gloves should be worn at all times
His-Trap columns (1 ml)	GE Healthcare	17-5247-01	
All other reagents	any reputable supplier		Molecular biology grade is necessary (DNase-free); microfuge tubes similarly should be DNase- and RNase-free
Equipment			
Hoefer SE400 gel apparatus	Hoefer	SE400-15-1.5	
FLA-3000 (phosphor and fluorescence imager)	Fuji		
Image Reader V2.02	FujiFilm		
Image Gauge V3.3	FujiFilm		